Westwood

Appendix A

Wetland Delineation Data Forms

Byron Solar Project

Dodge and Olmsted Counties, Minnesota

Project/Site Byron Solar	City/0	County:	Dodge		Sampling Date:	4/28/21			
Applicant/Owner: EDF Renewables		State:	MN		Sampling Point:	NW_101			
Investigator(s): David Kuhlmann		Section	on, Township	o, Range:	Section 3	31 T107N R15W			
Landform (hillslope, terrace, etc.): swale)	Local re	elief (concav	e, convex	, none):	concave			
Slope (%): 2 to 5 Lat: 44.035991		Long:	-92.67668			IAD 83 UTM 15N			
Soil Map Unit Name Joy silt loam, 1 to 4 percent slopes			NWI (Classificati	ion:	N/A			
Are climatic/hydrologic conditions of the site typical for the	his time of	f the year?	Y (I	f no, expla	nin in remarks)				
Are vegetation , soil , or hydrolog	ЭУ	significantly	disturbed?		Are "normal circ	umstances"			
Are vegetation , soil , or hydrolog			oblematic?		7 H G 110111141 011 0	present? Yes			
SUMMARY OF FINDINGS				(If need	ed, explain any a	answers in remarks.)			
Hydrophytic vegetation present? Y									
Hydric soil present? Y		Is the sa	ampled area	a within a	wetland?	N			
Indicators of wetland hydrology present?		f yes, op	tional wetlan	d site ID:	•				
Remarks: (Explain alternative procedures here or in a separate report.)									
Tromands. (Explain alternative procedures here of in a se	cparate re	port.)							
grass	sy swale	located witl	hin ag field						
VEGETATION									
VEGETATION Use scientific names of plants	Absolute	Dominan	Indicator	Domina	nce Test Works	shoot			
		t Species	Staus		of Dominant Spe				
1	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ороз.оо	010.00		OBL, FACW, or F				
2					Number of Domir	`			
3					cies Across all Str				
4				Percent	of Dominant Spe	cies			
5				that are 0	DBL, FACW, or F	AC: 100.00% (A/B)			
0.15.701.4.4	0 :	Total Cover	•	D		-1 (
Sapling/Shrub stratum (Plot size: 15)					nce Index Work Cover of:	tsneet			
				OBL spe	_	x 1 = 0			
3				-		$x = \frac{0}{0}$			
4				FAC spe	·	x 3 = 285			
5				FACU s	pecies 5	x 4 = 20			
_	0 :	= Total Cover	-	UPL spe		x 5 = 0			
Herb stratum (Plot size: 5)				Column		(A) <u>305</u> (B)			
1 poa pratensis	95	<u>Y</u>	FAC	Prevale	nce Index = B/A	= 3.05			
2 taraxacum officinale	5	<u>N</u>	FACU	l le calaca a	butia Manatatia	u la diantana			
3					hytic Vegetation	ohytic vegetation			
5					ninance test is >				
6					valence index is				
7				— Mor	phogical adaptat	tions* (provide			
8				sup	porting data in R				
9					arate sheet)				
10	100				blematic hydroph	nytic vegetation*			
Woody vine stratum (Plot size: 30)	100 :	= Total Cover		(ext	olain)				
Woody vine stratum (Plot size: 30)					ors of hydric soil and oresent, unless distu	wetland hydrology must be			
					Irophytic	indea of problematic			
	0 :	Total Cover		_	etation				
				pre	sent?	<u>(</u>			
Remarks: (Include photo numbers here or on a separate	e sheet)								

SOIL Sampling Point: NW_101

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm th	ne absence o	of indicators.)
Depth <u>Matrix</u> <u>Redox Features</u>							,		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	е	Remarks
0-18	10YR 2/1	100					clay		
18-24	10YR 4/1	95	10YR 5/8	5	С	М	clay		
10-24	1011(4/1	93	10111 3/0	<u> </u>		IVI	Clay		
	Concentration, D	= Depleti	on, RM = Reduc	ed Matrix	x, MS = N	1asked S			PL = Pore Lining, M = Matrix
Hydric Sc	oil Indicators:						Indicators	for Problem	atic Hydric Soils:
Hist	tisol (A1)			ndy Gleye		(S4)	Coast I	Prairie Redox	x (A16) (LRR K, L, R)
His	tic Epipedon (A2)		Sai	ndy Redo	x (S5)			urface (S7) (
Blad	ck Histic (A3)		Str	ipped Ma	trix (S6)		Iron-Ma	anganese Ma	asses (F12) (LRR K, L, R)
— _{Hyd}	drogen Sulfide (A4	4)	Loa	amy Mucl	ky Minera	al (F1)	— Very S	hallow Dark	Surface (TF12)
	atified Layers (A5			amy Gley	-	. ,		explain in rei	
	m Muck (A10)	,		pleted Ma		. ,	 `	•	,
	oleted Below Dark	c Surface		dox Dark	, ,				
	ck Dark Surface (pleted Da			*Indicate	ore of hydron	hytic vegetation and weltand
	ndy Mucky Minera			dox Depr					present, unless disturbed or
	m Mucky Peat or			чох Борі	00010110	(10)	nyarolo		oblematic
	<u> </u>		7					PI-	obiomatio
	Layer (if observe	ed):							
Type:					_		Hydric so	oil present?	Y
Depth (inche	es):				_				
Remarks:									
HYDROLO	ncv .								
	drology Indicato	arc:							
_							_		
	cators (minimum	of one is	required; check				Seco		ators (minimum of two required)
	Water (A1)			_ :	Fauna (B	,		_	l Cracks (B6)
	ater Table (A2)			_	uatic Plar		<u> </u>	_	atterns (B10)
Saturation				_ · ·	n Sulfide	•	·	_	Water Table (C2)
	larks (B1)				l Rhizosp	heres on	Living Roots	Crayfish Bu	
	nt Deposits (B2)			(C3)					Visible on Aerial Imagery (C9)
	posits (B3)			_	e of Redu			_	Stressed Plants (D1)
	at or Crust (B4)				Iron Redu	iction in T	illed Soils X		c Position (D2)
	oosits (B5)			(C6)				_FAC-Neutra	al Test (D5)
	on Visible on Aeria			_	ck Surfac				
	/ Vegetated Conca		ce (B8)	_ ~	or Well Da	` '			
Water-S	tained Leaves (B9	9)		Other (E	xplain in	Remarks)		
Field Obser	vations:								
Surface wat	er present?	Yes	No	Χ	Depth (i	nches):			
Water table	present?	Yes	No	X	Depth (i	nches):		Indica	ators of wetland
10 (()	recent?	Yes	No	X	Depth (i	nches):		hydr	ology present? N
Saturation p	i Cociii:								
	pillary fringe)					,			
(includes ca	pillary fringe)		e, monitoring wel	l, aerial p	hotos, pi	•	nspections), if av	_ I /ailable:	
(includes ca			e, monitoring wel	l, aerial p	hotos, pi	•	nspections), if av	/ailable:	
(includes ca	pillary fringe)		e, monitoring wel	l, aerial p	hotos, pi	•	nspections), if av	/ailable:	
(includes ca	pillary fringe)		e, monitoring wel	I, aerial p	hotos, pi	•	nspections), if av	vailable:	
(includes ca Describe red Remarks:	pillary fringe) corded data (strea	am gaug				•	nspections), if av	vailable:	
(includes ca Describe red Remarks:	pillary fringe)	am gaug				•	nspections), if av	/ailable:	

Investigator(s): David Kuhlmann Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 2 to 5 Lat: 44.026849 Long: -92.707856 Datum: NAD 83 UTM 15N Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent slopes VWI Classification: N/A Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks) Are "normal circumstances"	Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/28/21						
Landform fillslope, terrace, etc.): hillslope Local relief (concave, correx, none): correx Slope (%): 2to 5 Lat: 44.026849 Long: -92.707856 Datum: NAD 83 VITI 15N NAF visual NAP (Classification: NAP Active Classification: NAP Activ	Applicant/Owner: EDF Renewables	State	e: MN	Sampling Point:	NW-102						
Slope (%): 2 to 5	Investigator(s): David Kuhlmann		ection, Townshi	p, Range: Section 3	5 T107N R16W						
Slope (%): 2 to 5	Landform (hillslope, terrace, etc.): hillslope	Loca	al relief (conca	ve, convex, none):	convex						
Soil Map Unit Name Tripoli sitly clay loam, 0 to 2 percent slopes Are climatic hydrologic conditions of the site typical for this time of the year? Are vegetation	Slope (%): 2 to 5 Lat: 44.026849										
Are vegetation sol or hydrology naturally problematic? Are vegetation sol or hydrology naturally problematic? Are vegetation sol or hydrology naturally problematic? Hydrophytic vegetation present? Hydrophytic vegetation present? Hydrophytic vegetation present? Hydrophytic vegetation present? Nemarks: (Explain alternative procedures here or in a separate report.) The stratum (Plot size: 30) Absolute present of the sampled area within a wetland? Necessary or special present or in a separate report.) VEGETATION Use scientific names of plants. Tree Stratum (Plot size: 30) Absolute present or in a separate report.) Sapling/Shrub stratum (Plot size: 15) Total Cover prevalence index and species that are OBL, FACW, or FAC: 0 (R) Sapling/Shrub stratum (Plot size: 15) Total Scover prevalence index by species or sea and species that are OBL, FACW, or FAC: 0 (R) Herb stratum (Plot size: 5) Total Cover prevalence index and species or sea and spe	Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent s										
Are vegetation soil or hydrology naturally problematic? (If needed, explain any answers in remarks.) SUMMARY OF FINDINGS Hydrophylic vegetation present? Hydroic problematic? Is the sampled area within a wetland? N Fyes, optional wetland site ID: Remarks: (Explain alternative procedures here or in a separate report.) Itilied ag field on slight hillslope VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30) Absolue Dominan Indicator % Cover 1 Species Slaus that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species that are OBL, FACW, or FAC: 0 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species that are OBL, FACW, or FAC: 0 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species that are OBL, FACW, or FAC: 0 (B) Percent of Dominant Species (B) Total Number of Dominant Species (B) Total Number of Opminant Species (B) Total Number of Opminant Species (B) Total Species O (A) Total Species O (A) Free Stratum (Plot size: 15) Free Stratum (Plot size: 15) Total Cover (Prevalence Index Worksheet Total % Cover of: OBL species O (A) Total Species O (A) FACW	Are climatic/hydrologic conditions of the site typical for this	time of the year	? Y (If no, explain in remarks)							
Name	Are vegetation, soil , or hydrology	significa	antly disturbed?	Are "normal circu	mstances"						
Hydrophytic vegetation present? Number of polarinant Species Status Status Species Across all Strata: O (B) Sapiling/Shrub straturr (Plot size: 15) Sapiling/Shrub straturr (Plot size: 5) = Total Cover FACU species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL spec	Are vegetation, soil, or hydrology	naturally	- 7 To Horman directions								
Hydric soil present? Y N Fyes, optional wetland? N Fyes, optional wetland site ID: Section N Fyes, optional wetland? N Fyes, optional wetland site ID: Section N Fyes, optional wetland site ID: Section N Fyes, optional wetland site ID: Section Fyes, optional wetland? N Fyes, optional wetland? N Fyes, optional wetland? N Fyes, optional wetland site ID: Fyes, optional wetland? N Fyes, optional wetland site ID: Fyes, optional wetland site ID: Fyes, optional wetland site ID: Fyes, optional wetland? N Fyes, optional wetland site ID: Fyes, optional site I				(If needed, explain any ar	nswers in remarks.)						
Indicators of wetland hydrology present? N											
VEGETATION Use scientific names of plants. Tree Stratum	Hydric soil present?	Is the	e sampled are	a within a wetland?	<u>N</u>						
VEGETATION Use scientific names of plants. Tree Stratum	Indicators of wetland hydrology present?	f yes,	, optional wetlar	nd site ID:							
VEGETATION Use scientific names of plants. Tree Stratum											
VEGETATION — Use scientific names of plants. Iree Stratum (Plot size:		, ,									
Absolute Nominant Indicator Status Nominant Species Status	tilled	ag field on slig	ght hillslope								
Absolute Nominant Indicator Status Nominant Species Status	VECETATION Use scientific names of plants										
Number of Dominant Species Staus Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)	·	solute Domina	n Indicator	Dominance Test Works	heet						
that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 0 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B) Pervalence Index Worksheet Total % Cover of: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FACW species 0 x2 = 0 FACW species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x5 = 0 UPL species 0 x4 = 0 UPL species 0 x5 = 0 UPL species 0 x6 = 0 UPL species 0 x				Number of Dominant Speci	ies						
Species Across all Strata: 0 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)	1			-							
Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)	2										
Sapling/Shrub stratum (Plot size:	3			Species Across all Stra	ta:(B)						
Sapling/Shrub stratur				·							
Prevalence Index Worksheet	5	- Total Co		that are OBL, FACVV, or FA	C: 0.00% (A/B)						
Total % Cover of: OBL species 0	Sanling/Shrub stratum (Plot size: 15)		lvei	Prevalence Index Works	sheet						
OBL species 0	1				Siloct						
## FAC species	2				1 = 0						
FACU species 0	3				(2 = 0						
Herb stratum (Plot size: 5) = Total Cover UPL species 0 x 5 0 (A) 0 (B)	4			· —							
Herb stratum (Plot size: 5) 1	5			· —							
Prevalence Index = B/A = Prevalence Index = B/A =	/Dist since	0 = Fotal Co	over	·							
2	Herb stratum (Piot size: 5)			`	,						
Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Woody vine stratum (Plot size: 30) Woody vine stratum (Plot size: 30) Remarks: (Include photo numbers here or on a separate sheet) Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic vegetation present? N				Prevalence Index = B/A =	·						
Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic vegetation Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)				Hydrophytic Vegetation	Indicators:						
Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Pydrophytic vegetation bydrophytic v	<u> </u>										
Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic ### Hydrophytic vegetation to present? Woody vine stratum	5										
8 supporting data in Remarks or on a separate sheet) 10 Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic 2 Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	6			Prevalence index is ≤	3.0*						
8 supporting data in Remarks or on a separate sheet) 10 Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic 2 Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	7			Morphogical adaptation	ons* (provide						
Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic *Indicators of hydrophytic *Indicat				supporting data in Re							
Woody vine stratum (Plot size: 30) 1											
Woody vine stratum (Plot size: 30) 1	10	- Total Co			tic vegetation*						
1 present, unless disturbed or problematic 2 Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	Woody vine stratum (Plot size: 30)	= Total Co	over								
2 Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	1										
0 = Total Cover vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)					bed of problemate						
Remarks: (Include photo numbers here or on a separate sheet)		0 = Total Co	over	vegetation							
				present? N	<u> </u>						
no evidence of crop stress		heet)									
	no evidence of crop stress										

SOIL Sampling Point: NW-102

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the abse	ence of indicators.)		
Depth	Depth <u>Matrix</u> <u>Redox Features</u>									
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
0-14	10YR 2/1	100					clay			
14-24	10YR 4/1	95	10YR 5/8	5	С	М	clay			
	101111111		10111070		-		olay			
		= Depleti	on, RM = Reduce	ed Matrix	, MS = N	lasked S		tion: PL = Pore Lining, M = Matrix		
	il Indicators:							blematic Hydric Soils:		
	isol (A1)				ed Matrix	(S4)		Redox (A16) (LRR K, L, R)		
	ic Epipedon (A2)			idy Redo	. ,			(S7) (LRR K, L)		
	ck Histic (A3)			pped Ma				se Masses (F12) (LRR K, L, R)		
	lrogen Sulfide (A4	•		-	ky Minera			Dark Surface (TF12)		
	tified Layers (A5))			ed Matrix		Other (explain	in remarks)		
	n Muck (A10)			leted Ma	atrix (F3)					
Dep	leted Below Dark	Surface	(A11) Red	lox Dark	Surface	(F6)				
X Thic	ck Dark Surface (A12)	Dep	leted Da	ırk Surfa	ce (F7)	*Indicators of hy	drophytic vegetation and weltand		
San	dy Mucky Minera	I (S1)	Red	lox Depr	essions ((F8)	hydrology mus	t be present, unless disturbed or		
5 cr	n Mucky Peat or	Peat (S3						problematic		
Restrictive	Layer (if observe	aq).								
Type:	Layer (II observe	Juj.					Hydric soil pres	ent? Y		
Depth (inche).				•		riyuric son pres	ent:		
Deptil (iliche					-					
Remarks:										
HYDROLO	OGY									
Wetland Hy	drology Indicato	rs:								
Primary Indi	cators (minimum	of one is	required; check	all that a	(ylqq		Secondary I	ndicators (minimum of two required)		
	Water (A1)		. ,		Fauna (B	13)		ce Soil Cracks (B6)		
	iter Table (A2)				uatic Plar	,		age Patterns (B10)		
Saturatio						Odor (C1		eason Water Table (C2)		
	arks (B1)					-		sh Burrows (C8)		
	nt Deposits (B2)			(C3)				ation Visible on Aerial Imagery (C9)		
	osits (B3)				e of Redu	iced Iron		ed or Stressed Plants (D1)		
Algal Ma	it or Crust (B4)			•				orphic Position (D2)		
	osits (B5)			(C6)				Neutral Test (D5)		
	on Visible on Aeria	l Imager	/ (B7)		ck Surfac	e (C7)		,		
Sparsely	Vegetated Conca	ve Surfa	ce (B8)	Gauge o	r Well Da	ata (D9)				
Water-S	tained Leaves (B9)				Remarks)			
Field Obser	vations:			•			l			
Surface water		Yes	No	Х	Depth (i	nches):				
Water table	-	Yes	No	$\frac{\chi}{X}$	Depth (i	•		Indicators of wetland		
Saturation p	•	Yes	No	X	Depth (i	•		hydrology present? N		
	pillary fringe)				`	,				
		am gauge	e. monitorina well	. aerial n	hotos n	evious ir	nspections), if available:			
		gaag	z,om.omig won	, ασιιαι ρ	, pi	211000 II	.spsc.ions,, ii available.			
Remarks:	Remarks:									
sample le	ocated on sligh	t hillslo	pe; no evidenc	e of de	oression	n or oth	er geomorphic posit	ion that would support wetland		
hydrolog	_		, ,	[5 1 1	1,		
l , 5.5 g	,									

Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/28/21							
Applicant/Owner: EDF Renewables	State:	MN	Sampling Point:	NW-103							
Investigator(s): David Kuhlmann	Secti	on, Township	o, Range: Section 35 1	Γ107N R16W							
Landform (hillslope, terrace, etc.): hillslope	Local i	elief (concav	re, convex, none):	convex							
Slope (%): 2 to 5 Lat: 44.302219	Long:	-92.70790									
Soil Map Unit Name Marquis silt loam, 1 to 3 percent slopes		NWI Classification: N/A									
Are climatic/hydrologic conditions of the site typical for this ti	me of the year?	<u>Y</u> (l	f no, explain in remarks)								
Are vegetation , soil , or hydrology	significantl	y disturbed?	Are "normal circum	stances"							
Are vegetation , soil , or hydrology		roblematic?		present? Yes							
SUMMARY OF FINDINGS			(If needed, explain any ansv	wers in remarks.)							
Hydrophytic vegetation present? N											
Hydric soil present? N	Is the s	sampled area	a within a wetland?	N							
Indicators of wetland hydrology present?	f yes, or	otional wetlan	id site ID:								
Remarks: (Explain alternative procedures here or in a separa	Demantics (Fundain alternative precedures have as in a concrete report)										
Tremains. (Explain alternative procedures here of in a separa	ate report.)										
tilled a	g field on slight	hillslope									
VEGETATION - Have destify a second of the factor											
VEGETATION Use scientific names of plants.	1.1. D	L. P. L.	Dominance Test Workshe	ot .							
Absort Tree Stratum (Plot size: 30) % Co	lute Dominan over t Species	Indicator Staus	Number of Dominant Species								
1	ovoi (Opooloo	Otado	that are OBL, FACW, or FAC:								
			Total Number of Dominant	``							
3			Species Across all Strata:								
4			Percent of Dominant Species								
5			that are OBL, FACW, or FAC:	0.00% (A/B)							
0	= Total Cove	r									
Sapling/Shrub stratum (Plot size: 15)			Prevalence Index Worksho	eet							
2			Total % Cover of: OBL species 0 x 1	= 0							
3			FACW species 0 x 2								
4			FAC species 0 x 3								
5			FACU species 0 x 4	= 0							
	= Total Cove	r	UPL species 0 x 5	0							
Herb stratum (Plot size: 5)			Column totals 0 (A)	0 (B)							
1			Prevalence Index = B/A =								
3			Hydrophytic Vegetation In								
5			Rapid test for hydrophy Dominance test is >50%	•							
6			Prevalence index is ≤3.								
7			Morphogical adaptation								
8			supporting data in Rema								
9			separate sheet)								
10			Problematic hydrophytic	c vegetation*							
	= Total Cove	r	(explain)								
Woody vine stratum (Plot size:30) 1			*Indicators of hydric soil and wet present, unless disturbed								
2			Hydrophytic								
0	= Total Cove	r	vegetation present? N								
Demantics (Include what			prosent: N	<u>-</u>							
Remarks: (Include photo numbers here or on a separate she	eet)										

SOIL Sampling Point: NW-103

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the a	absence of inc	dicators.)
Depth	Matrix		Red	dox Featı	<u>ures</u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture		Remarks
0-12	10YR 2/2	75					silty clay	mixed	d matrix
0-12	10YR 3/3	25					sand	mixed	d matrix
12-14	10YR 3/3	100					sand		
12 17	10111 0/0	100					Julia		
*Type: C = C	Concentration, D :	= Depleti	on, RM = Reduce	d Matrix	, MS = N	lasked S	and Grains. **I	ocation: PL =	Pore Lining, M = Matrix
	il Indicators:	·	·				Indicators for		
Hist	isol (A1)		Sar	dy Gleye	ed Matrix	(S4)	Coast Pra	irie Redox (A1	6) (LRR K, L, R)
Hist	ic Epipedon (A2)		Sar	dy Redo	x (S5)			ace (S7) (LRR	
Blad	ck Histic (A3)		Stri	pped Ma	trix (S6)		Iron-Mang	anese Masses	s (F12) (LRR K, L, R)
— Hyd	rogen Sulfide (A4	1)	Loa	my Mucł	ky Minera	al (F1)	Very Shall	low Dark Surfa	ce (TF12)
Stra	tified Layers (A5))	Loa	my Gley	ed Matrix	(F2)	Other (exp	olain in remark	s)
2 cr	n Muck (A10)		Dep	leted Ma	atrix (F3)				
Dep	leted Below Dark	Surface	(A11) Red	lox Dark	Surface	(F6)			
	k Dark Surface (,			ırk Surfa	. ,	*Indicators	of hydrophytic	vegetation and weltand
	dy Mucky Minera			lox Depr	essions ((F8)	hydrology		nt, unless disturbed or
5 cr	n Mucky Peat or	Peat (S3)					probler	natic
Restrictive	Layer (if observe	ed):							
Type:							Hydric soil	oresent?	N
Depth (inche	es):				•				
Remarks:									
HYDROLO									
Wetland Hy	drology Indicato	rs:							
Primary Indi	cators (minimum	of one is	required; check	all that a	pply)		<u>Second</u>	ary Indicators	(minimum of two required)
Surface	Water (A1)			Aquatic	Fauna (B	13)	S	urface Soil Cra	cks (B6)
	ter Table (A2)				uatic Plar			rainage Patterr	• •
Saturation	, ,					Odor (C1		ry-Season Wat	
	arks (B1)				l Rhizosp	heres on		rayfish Burrows	
	t Deposits (B2)			(C3)	f D l-				e on Aerial Imagery (C9)
	osits (B3)					iced Iron	· · ·	tunted or Stress eomorphic Pos	sed Plants (D1)
	t or Crust (B4) osits (B5)			(C6)	ron Redu	Cuon in 1		AC-Neutral Tes	• •
	on Visible on Aeria	ıl İmager	(B7)		ck Surfac	e (C7)	'	AC-Neutral Tes	t (D3)
	Vegetated Conca				r Well Da	. ,			
	tained Leaves (B9					Remarks)		
Field Obser	vations:	,		`	<u> </u>		<u> </u>		
Surface water		Yes	No	Х	Depth (i	nches):			
Water table		Yes	No	X	Depth (i			Indicators	of wetland
Saturation p	resent?	Yes	No	X	Depth (i	nches):		hydrolog	y present? N
(includes ca	pillary fringe)				•				
Describe red	orded data (strea	am gauge	e, monitoring well	, aerial p	hotos, pr	evious ir	nspections), if availa	able:	
Remarks:									

Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/28/21				
Applicant/Owner: EDF Renewables	State:	MN	Sampling Point:	NW-104				
Investigator(s): David Kuhlmann	Sec	tion, Township	p, Range: Section 35 T107N R16W					
Landform (hillslope, terrace, etc.): hillslope	Local	relief (concav	/e, convex, none):	none				
Slope (%): 2 to 5 Lat: 44.022459	Long:	· · · · · · · · · · · · · · · · · · ·						
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent si		NWI Classification: N/A						
Are climatic/hydrologic conditions of the site typical for this			If no, explain in remarks)					
Are vegetation , soil , or hydrology	-	tly disturbed?	Are "normal circum	istances"				
Are vegetation , soil , or hydrology		, as normal should be						
SUMMARY OF FINDINGS		'	(If needed, explain any ans	wers in remarks.)				
Hydrophytic vegetation present? N			•					
Hydric soil present? Y	Is the	sampled area	a within a wetland?	N				
Indicators of wetland hydrology present?		pptional wetlar						
Remarks: (Explain alternative procedures here or in a sepa		<u>. </u>						
Remarks. (Explain alternative procedures here or in a sepa	irate report.							
tille	ed ag field on h	illslope						
NECETATION III and in this was a find and								
VEGETATION Use scientific names of plants.	- 1:4- Deminen	llineten	Dominance Test Workshe	204				
	solute Dominan Cover t Species							
1	50V01 1 0p00.00	Oldas	Number of Dominant Species that are OBL, FACW, or FAC					
		· ——	Total Number of Dominan	``				
3			Species Across all Strata					
4			Percent of Dominant Species	3				
5	<u> </u>		that are OBL, FACW, or FAC	: <u>0.00%</u> (A/B)				
	0 = Total Cov	er	=					
Sapling/Shrub stratum (Plot size:15)			Prevalence Index Worksh	eet				
		· ——	Total % Cover of: OBL species 0 x 1	I = 0				
3		· 	FACW species 0 x 2					
4			FAC species 0 x 3					
5			FACU species 0 x 4					
	0 = Total Cov	er	UPL species 0 x 5	5 = 0				
Herb stratum (Plot size: 5)			Column totals 0 (A) 0 (B)				
1			Prevalence Index = B/A =					
2								
3			Hydrophytic Vegetation II					
			Rapid test for hydrophy	•				
6			Dominance test is >50° Prevalence index is ≤3.					
7		· ——						
8			Morphogical adaptation supporting data in Rem					
9			separate sheet)					
10			Problematic hydrophyti	c vegetation*				
	0 = Total Cov	er	(explain)	-				
Woody vine stratum (Plot size: 30)			*Indicators of hydric soil and we present, unless disturbe					
2			Hydrophytic					
	0 = Total Cov	er	vegetation					
			present? N					
Remarks: (Include photo numbers here or on a separate sl	neet)							
tilled ag field								

SOIL Sampling Point: NW-104

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm the absen	ce of indicators.)
Depth	Matrix			lox Feat				,
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-12	10YR 2/1	100					clay	
12-24	10YR 4/1	98	10YR 5/8	2	С	М	clay	
14-47	10113 7/1	30	10111 3/3			IVI	Clay	
					<u> </u>			
					<u> </u>	<u> </u>		
					 			
±= C = .		Depleti	DM - Doduce	1	140 - 1	• 0	**!	Di Dining Manhiy
		= Deріец	on, RM = Reduce	ed Matrix	, MS = 1V	laskea s		on: PL = Pore Lining, M = Matrix
_	oil Indicators:		Con	l. Claye	- Matrix	(04)		lematic Hydric Soils:
	tisol (A1)				ed Matrix	(54)		edox (A16) (LRR K, L, R)
	tic Epipedon (A2)			dy Redo	, ,		Dark Surface (S	7) (LRR K, L) : Masses (F12) (LRR K, L, R)
	ck Histic (A3)	4\		pped Ma	. ,	-1/E4)		
	lrogen Sulfide (A4	•		-	ky Minera			ark Surface (TF12)
	atified Layers (A5))			ed Matrix atrix (F3)		Other (explain ir	remarks)
	m Muck (A10) oleted Below Dark	Surface			Surface			
	oleted Below Dark ok Dark Surface (· · · —		Surrace ark Surfa	` '	*I:I:store of bud	
	ck Dark Surface (ndy Mucky Minera	,			essions (. ,		rophytic vegetation and weltand be present, unless disturbed or
	ndy Mucky Minera m Mucky Peat or	` '		юх рерг	essions ((۲٥)	flydfology fflusi i	pe present, unless disturbed or problematic
)					problemanc
	Layer (if observe	ed):						
Type:							Hydric soil presei	nt? <u>Y</u>
Depth (inche	es):				=			
Remarks:								
HYDROLO	OGY							
	drology Indicato	rs:						
_			required; check a	all that a	nnly)		Secondary Inc	dicators (minimum of two required)
	Water (A1)	OI OIIE IS			рргу) Fauna (B	13)		Soil Cracks (B6)
	ater Table (A2)				uatic Plar			e Patterns (B10)
Saturation	` '				n Sulfide	. ,		son Water Table (C2)
	larks (B1)							Burrows (C8)
	nt Deposits (B2)			(C3)	1 1 11 11 ZOOP	110100 011		on Visible on Aerial Imagery (C9)
	posits (B3)				e of Redu	uced Iron		or Stressed Plants (D1)
	at or Crust (B4)							phic Position (D2)
	osits (B5)			(C6)				utral Test (D5)
Inundation	on Visible on Aeria	ıl Imager	/ (B7)	Thin Mu	ck Surfac	e (C7)		, ,
Sparsely	Vegetated Conca	ive Surfa	ce (B8)		or Well Da			
Water-S	tained Leaves (B9)	_	Other (E	xplain in	Remarks)	
Field Obser	vations:							
Surface wat	er present?	Yes	No	Х	Depth (i	nches):		
Water table	•	Yes	No	X	Depth (i		In	dicators of wetland
Saturation p	resent?	Yes	No	Х	Depth (i		h	ydrology present? N
(includes ca	pillary fringe)				•			
Describe red	corded data (strea	am gauge	e, monitoring well	, aerial p	hotos, pi	revious ir	nspections), if available:	
	`	0 0					•	
Remarks:								

Project/Site Byron Solar	City/C	County:	Dodge	Sampling Dat	te: 4/29/21		
Applicant/Owner: EDF Renewables		State:	MN		-		
Investigator(s): David Kuhlmann			on, Township		on 35 T107N R16W		
Landform (hillslope, terrace, etc.): swale			-	re, convex, none):	none		
Slope (%): 2 to 5 Lat: 44.023024		Long:			NAD 83 UTM 15N		
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent s	lopes	<u> </u>		Classification:	N/A		
Are climatic/hydrologic conditions of the site typical for this		the year?		f no, explain in remarks)		
Are vegetation , soil , or hydrology		significantly		Are "normal o	circumstances"		
Are vegetation , soil , or hydrology		naturally problematic? present? You					
SUMMARY OF FINDINGS				(If needed, explain an	y answers in remarks.)		
Hydrophytic vegetation present? N							
Hydric soil present?		Is the sa	ampled area	a within a wetland?	<u>N</u>		
Indicators of wetland hydrology present?		f yes, op	tional wetlan	d site ID:			
Remarks: (Explain alternative procedures here or in a sepa	arate re	port.)					
		· •					
swale tr	nat con	tinues to s	lope offsite	9			
VEGETATION Use scientific names of plants.							
·	solute	Dominan	Indicator	Dominance Test Wo	rksheet		
Tree Stratum (Plot size: 30) %	Cover	t Species	Staus	Number of Dominant S	•		
1				that are OBL, FACW, o	or FAC: 0 (A)		
				Total Number of Do			
3				Species Across all	``		
				Percent of Dominant S that are OBL, FACW, o	•		
	0 =	Total Cover	<u> </u>	Illat alo ODE, 171011, 0	(ND)		
Sapling/Shrub stratum (Plot size: 15)		•		Prevalence Index W	orksheet		
1				Total % Cover of:			
2				OBL species 0			
3				FACW species 0	x 2 =0		
				FAC species 0 FACU species 100	x 3 = 0 x 4 = 400		
	0 =	Total Cover		FACU species 100 UPL species 0	$x = \frac{400}{x}$		
Herb stratum (Plot size: 5)		Total Core.		Column totals 100			
` '	100	Y	FACU	Prevalence Index = B			
2	100	<u> </u>	17.52	1101010			
3				Hydrophytic Vegeta	tion Indicators:		
4					Irophytic vegetation		
5				Dominance test is			
6				Prevalence index			
				Morphogical adap			
9				supporting data if separate sheet)	n Remarks or on a		
10					ophytic vegetation*		
	100 =	Total Cover		(explain)	opily no rogerane.		
Woody vine stratum (Plot size: 30)				*Indicators of hydric soil	and wetland hydrology must be		
1				present, unless d	isturbed or problematic		
2				Hydrophytic vegetation			
	0 =	Total Cover	•	present?	N		
Remarks: (Include photo numbers here or on a separate s	heet)			-			
Tremands. (motate photo numbers here of on a separate s	noot)						

SOIL Sampling Point: NW-105

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm the absen	ce of indicators.)
Depth	Matrix		Red	dox Feat	<u>ures</u>			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-14	10YR 2/1	100					clay	
14-24	10YR 4/2	95	10YR 5/8	5	С	М	clay	
	.0		10111070		Ť		5.4)	
*T 0 - 0		_ D1-#	DM D	-I N 4 4 1 1	MC - N	111 0		D. D. Dana Linina M. M. Matrix
	Concentration, D	= Depleti	on, Rivi = Reduce	ed Matrix	, IVIS = IV	iasked S		on: PL = Pore Lining, M = Matrix
_	oil Indicators:		0	-l Ol	! NA 4	(04)		lematic Hydric Soils:
	tisol (A1)				ed Matrix	(54)		edox (A16) (LRR K, L, R)
	tic Epipedon (A2)			dy Redo	, ,		Dark Surface (S	e Masses (F12) (LRR K, L, R)
	ck Histic (A3)	4.		pped Ma	. ,	1 (54)		, , , , , , , , , , , , , , , , , , , ,
	lrogen Sulfide (A4	•		-	ky Minera			ark Surface (TF12)
	atified Layers (A5))			ed Matrix		Other (explain in	remarks)
	n Muck (A10)	0 1			atrix (F3)			-
	oleted Below Dark		· · —		Surface	` '		
	ck Dark Surface (,			rk Surfa	. ,		rophytic vegetation and weltand
	ndy Mucky Minera	` '		lox Depr	essions ((F8)	hydrology must i	be present, unless disturbed or
^{5 cr}	n Mucky Peat or	Peat (S3)					problematic
Restrictive	Layer (if observe	ed):						
Type:							Hydric soil prese	nt? Y
Depth (inche	es):				•			
Remarks:					_			
i tomanto.								
HYDROLO	nev .							
	drology Indicate	vre:						
_			manufinadi abaali	all that a			0	Park and the state of the state
	cators (minimum	of one is	requirea; cneck			40)		dicators (minimum of two required)
	Water (A1)				Fauna (B			Soil Cracks (B6)
	iter Table (A2)				uatic Plar	. ,		e Patterns (B10)
Saturation						Odor (C	·	ason Water Table (C2)
	arks (B1)				Rnizosp	neres on		Burrows (C8)
	nt Deposits (B2)			(C3)	o of Body	unad Iran		on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
	oosits (B3) at or Crust (B4)					uced Iron		
	osits (B5)				ron Reau	iction in i		rphic Position (D2) eutral Test (D5)
	` '	ıl İmagor	, (B7)	(C6)	ok Surfoc	o (C7)	FAC-NE	eutrai Test (D5)
	on Visible on Aeria Vegetated Conca		· · ·		ck Surfac or Well Da			
	tained Leaves (B9					ata (D9) Remarks	١	
	•)		Other (L	лріант ін	Itemans	<i>)</i>	
Field Obser		V	NI-	V	D = = 41= /:			
Surface wat	•	Yes	No	X	Depth (i			diagtors of watlend
Water table		Yes	No No	X	Depth (i			dicators of wetland
Saturation p	resent? pillary fringe)	Yes	No	Х	Depth (i	ncnes):	"	ydrology present? N
Describe red	corded data (strea	am gaug	e, monitoring well	, aerial p	hotos, pi	revious ir	nspections), if available:	
Remarks:								
i verrial No.								

Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/29/21				
Applicant/Owner: EDF Renewables	State:	MN		NW-106				
Investigator(s): David Kuhlmann		ion, Township		T106N R16W				
Landform (hillslope, terrace, etc.): hillslope		Local relief (concave, convex, none): convex						
Slope (%): 2 to 5 Lat: 44.002904	Long:	-92.7044						
Soil Map Unit Name Readlyn silt loam, 1 to 3 percent slope			Classification:	N/A				
Are climatic/hydrologic conditions of the site typical for this			f no, explain in remarks)					
Are vegetation X , soil , or hydrology	significantl							
Are vegetation , soil , or hydrology		naturally problematic? present? Yes						
SUMMARY OF FINDINGS		(If needed, explain any answers in remarks						
Hydrophytic vegetation present? N								
Hydric soil present?	Is the s	sampled area	a within a wetland?	N				
Indicators of wetland hydrology present?	f yes, or	otional wetlar	nd site ID:					
Remarks: (Explain alternative procedures here or in a sepa	arate report.)		<u> </u>					
	. ,							
	tilled ag field							
VEGETATION Use scientific names of plants.								
·	solute Dominan	Indicator	Dominance Test Worksh	 leet				
	Cover t Species	Staus	Number of Dominant Specie	es				
1			that are OBL, FACW, or FA	C: 0 (A)				
2			Total Number of Domina					
3			Species Across all Strat	``				
			Percent of Dominant Specie					
5	0 = Total Cove		that are OBL, FACW, or FA	C: 0.00% (A/B)				
Sapling/Shrub stratum (Plot size: 15)	<u> </u>	1	Prevalence Index Works	heet				
1			Total % Cover of:					
2			OBL species 0 x	1 =0				
3				2 = 0				
4			· —	3 = 0				
5	0 = Total Cove		· —	4 = <u>0</u> 5 = <u>0</u>				
Herb stratum (Plot size: 5)	U - TOTAL COVE	٠٢		5 = 0 A) 0 (B)				
1 (1 lot 3/20			Prevalence Index = B/A =	(5)				
2			Prevalence index – b/A –					
3			Hydrophytic Vegetation	Indicators:				
4			Rapid test for hydroph					
5			Dominance test is >50)%				
6			Prevalence index is ≤	3.0*				
7			Morphogical adaptation					
8			supporting data in Rer	marks or on a				
9			separate sheet)	4:*				
	0 = Total Cove	r	Problematic hydrophy (explain)	lic vegetation				
Woody vine stratum (Plot size: 30)		•	*Indicators of hydric soil and w	estland budralagy must be				
1			present, unless disturb	, ,,				
2			Hydrophytic					
	0 = Total Cove	r	vegetation					
			present? N	<u> </u>				
Remarks: (Include photo numbers here or on a separate sh	neet)							
avoided area of ag field								

SOIL Sampling Point: NW-106

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm t	he absenc	e of indicators.)
Depth <u>Matrix</u> <u>Redox Features</u>						•			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Textu	re	Remarks
0-10	10YR 2/1	100					clay		
10-24	10YR 4/1	80	10YR 5/8	20	С	М	clay		
10-24	10114/1	80	10113/6	20		IVI	ciay		
*Type: C = 0	Concentration, D	= Depleti	on, RM = Reduce	ed Matrix	, MS = N	1asked S			n: PL = Pore Lining, M = Matrix
Hydric Sc	il Indicators:						Indicators	for Proble	ematic Hydric Soils:
His	tisol (A1)		Sar	dy Gleye	ed Matrix	(S4)	Coast	Prairie Red	dox (A16) (LRR K, L, R)
Hist	tic Epipedon (A2)		Sar	dy Redo	x (S5)				") (LRR K, L)
	ck Histic (A3)			pped Ma			Iron-M	1anganese	Masses (F12) (LRR K, L, R)
	lrogen Sulfide (A	4)			ky Minera	al (F1)	Very S	Shallow Dar	rk Surface (TF12)
	atified Layers (A5			-	ed Matrix			(explain in	
	m Muck (A10)	,			atrix (F3)	. ,		(0),(0)	
	oleted Below Dark	Surface			Surface				
	ck Dark Surface (· · ·		ark Surfa	. ,	*Indicat	ore of bydr	appytic vagatation and waltand
	ndy Mucky Minera	•			essions (. ,			ophytic vegetation and weltand
	n Mucky Peat or			iox Debi	essions ((FO)	riyaroi		e present, unless disturbed or problematic
	n wucky Peat or	Peat (53)						problematic
Restrictive	Layer (if observe	ed):							
Type:							Hydric s	oil presen	t? Y
Depth (inche	es):				-				
Remarks:									
Remarks.									
HYDROL									
Wetland Hy	drology Indicate	ors:							
Primary Indi	cators (minimum	of one is	required; check	all that a	pply)		Sec	ondary Indi	icators (minimum of two required)
Surface	Water (A1)			Aquatic	Fauna (B	13)		Surface S	Soil Cracks (B6)
High Wa	ater Table (A2)			True Aq	uatic Plar	nts (B14)	_	Drainage	Patterns (B10)
Saturation	on (A3)			Hydroge	n Sulfide	Odor (C1	<u> </u>	Dry-Seas	son Water Table (C2)
Water M	larks (B1)			Oxidized	l Rhizosp	heres on	Living Roots	Crayfish	Burrows (C8)
Sedimer	nt Deposits (B2)			(C3)	·		_		n Visible on Aerial Imagery (C9)
	posits (B3)				e of Redu	uced Iron	(C4)		or Stressed Plants (D1)
Algal Ma	at or Crust (B4)			Recent I	ron Redu	ction in T	illed Soils	Geomorp	phic Position (D2)
	osits (B5)			(C6)			_	FAC-Neu	itral Test (D5)
	on Visible on Aeria	al Imager	y (B7)	•	ck Surfac	e (C7)	_		, ,
Sparsely	Vegetated Conca	ve Surfa	ce (B8)	Gauge o	or Well Da	ata (D9)			
	tained Leaves (B9		. ,			Remarks)		
Field Obser	vations:	•		· `	•		,		
Surface wat		Yes	No	Х	Depth (i	nches).			
Water table		Yes	No	$\frac{\lambda}{X}$	Depth (i			Ind	licators of wetland
Saturation p	•	Yes	No	$\frac{\lambda}{X}$	Depth (i	,			drology present?
	pillary fringe)	100			- Bopui (i	1101100).		"	
		am galla	n monitoring wall	acrial n	hotos n	rovious ir	anactions) if a	voilable:	
Describe rec	corded data (strea	am gaug	e, monitoring wen	, aeriai p	motos, pi	evious ii	ispections), ii a	valiable.	
Remarks:									
			O fa at himb and to		المراج المراج		al a a wa :: ! : . !		
sample I	ocated approxi	шасегу	∠ ieet nigner in	elevati	ion man	ı wellan	u sampie poi	IIL	

Project/Site Byron Solar	City/0	County:	Dodge	Sampling Date:	4/29/21		
Applicant/Owner: EDF Renewables					WB 02 Up B		
Investigator(s): David Kuhlmann		Section, Township, Range: Section 13 T106N R16W					
Landform (hillslope, terrace, etc.): depress	sion		-	re, convex, none):			
Slope (%): 2 to 5 Lat: 43.987933		Long:	-92.6938		AD 83 UTM 15N		
Soil Map Unit Name Clyde-Floyd complex, 1 to 4 percer	nt slopes	J		Classification:	PEM1Af		
Are climatic/hydrologic conditions of the site typical for							
Are vegetation , soil , or hydrolo							
Are vegetation , soil , or hydrolo		naturally pro		Ale normal circu	present? Yes		
SUMMARY OF FINDINGS	J,	, ,		(If needed, explain any ar	nswers in remarks.)		
Hydrophytic vegetation present? N				, , , , ,	,		
Hydric soil present?		Is the sampled area within a wetland?					
Indicators of wetland hydrology present?		f yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a s	верагате ге	port.)					
upland area between stream bank tha	at abruptl	y changes f	from wetla	nd to upland due to ban	k incision		
				-			
VEGETATION Use scientific names of plants				D ' T () W	1 1		
	Absolute % Cover	Dominan t Species	Indicator Staus	Dominance Test Works			
1 1 (Flot size)	70 COVEI	t opecies	Staus	Number of Dominant Speci that are OBL, FACW, or FA			
				Total Number of Domina			
3			_	Species Across all Stra			
4				Percent of Dominant Speci	ies		
5				that are OBL, FACW, or FA	AC: 50.00% (A/B)		
<u> </u>	0	= Total Cover					
Sapling/Shrub stratum (Plot size: 15)				Prevalence Index Works	sheet		
				Total % Cover of:	.1 - 0		
				· —	31 = 0 32 = 0		
-				· —	3 = 180		
5			_		4 = 160		
	0	= Total Cover			5 = 0		
Herb stratum (Plot size: 5)				Column totals 100 (A) 340 (B)		
1 <u>zizia aurea</u>	30	Y	FAC	Prevalence Index = B/A =	3.40		
2 ambrosia trifida	30	Υ	FAC				
3 taraxacum officinale	20	<u>Y</u> .	FACU	Hydrophytic Vegetation			
4 <u>cirsium arvense</u> 5	20	<u> </u>	FACU	Rapid test for hydrop Dominance test is >5			
		 -		Prevalence index is ≤			
7				Morphogical adaptation			
8				supporting data in Re			
9				separate sheet)			
10				Problematic hydrophy	tic vegetation*		
<u>-</u>	100	= Total Cover		(explain)			
Woody vine stratum (Plot size: 30 1				*Indicators of hydric soil and v present, unless distur	, ,,		
2				Hydrophytic			
	0	= Total Cover		vegetation present? N			
Remarks: (Include photo numbers here or on a separat	e sheet)			<u> </u>			
and the second s	2.1001)						

SOIL Sampling Point: WB-101 Up

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm the absen	ce of indicators.)
Depth	Matrix	-		dox Featı				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-24	10YR 2/1	95	10YR 3/4	5	С	М	clay	
-	-	-	-				,	
		 						
		<u> </u>		ļ!	<u> </u>			
					<u> </u>			
*T C = (Contraction D	Danloti	DM = Boduce	-! Matrix	N4C - N	1 l/ad C	**Loooti	DI - D Lining M - Motrix
		= Depieu	on, RM = Reduce	Mauix	i, IVIS = IV	laskeu o		on: PL = Pore Lining, M = Matrix
_	oil Indicators:		Con	-by Claye	Matrix	(04)		lematic Hydric Soils:
	tisol (A1)			ndy Gleye		(54)		edox (A16) (LRR K, L, R)
	tic Epipedon (A2)			ndy Redo			Dark Surface (S	(CRR K, L) • Masses (F12) (LRR K, L, R)
	ck Histic (A3)	4)		pped Ma	. ,	-U/E4)		
	lrogen Sulfide (A4	•		my Muck	-			ark Surface (TF12)
	atified Layers (A5))		my Gley			Other (explain in	remarks)
	m Muck (A10) oleted Below Dark	Surface		oleted Ma dox Dark	. ,			
	oleted Below Dark ok Dark Surface (oleted Da			*!	I . Sie
	ok Dark Surface (ndy Mucky Minera	•		dox Depre		. ,		rophytic vegetation and weltand be present, unless disturbed or
	ndy Mucky Minera m Mucky Peat or	. ,		10x Debi	essions ((F0)	flydfology fflusi i	present, unless disturbed or problematic
)					problematic
	Layer (if observe	ed):						
Type:							Hydric soil prese	nt? <u>Y</u>
Depth (inche	es):				=			
Remarks:								
HYDROLO	OGY							
	drology Indicato	ors:						
-			required; check a	all that a	nnly)		Secondary Inc	dicators (minimum of two required)
	Water (A1)	OI OIIC IC	16quilou, onco		рргу) Fauna (B	13)	•	Soil Cracks (B6)
	ater Table (A2)				uatic Plar			e Patterns (B10)
Saturation	` '				n Sulfide	, ,		ison Water Table (C2)
	larks (B1)							Burrows (C8)
	nt Deposits (B2)			(C3)	оор			on Visible on Aerial Imagery (C9)
	posits (B3)				e of Redu	uced Iron		or Stressed Plants (D1)
	at or Crust (B4)			•				phic Position (D2)
	oosits (B5)			(C6)				eutral Test (D5)
Inundation	on Visible on Aeria	ıl Imager	y (B7)	Thin Mu	ck Surfac	e (C7)		•
Sparsely	Vegetated Conca	ive Surfa	ce (B8)	Gauge o	or Well Da	ata (D9)		
Water-S	tained Leaves (B9	')		Other (E	xplain in	Remarks)	
Field Obser	vations:			<u>'</u>				
Surface wat	er present?	Yes	No	X	Depth (i	nches):		
Water table	present?	Yes	No	Х	Depth (i		In	dicators of wetland
Saturation p	resent?	Yes	No	X	Depth (i	nches):	h	ydrology present? N
(includes ca	pillary fringe)				•			
Describe red	corded data (strea	am gauge	e, monitoring well	, aerial p	hotos, pi	revious ir	nspections), if available:	
	`	0 0					,	
Remarks:								

Investigator(s): David Kuhlmann Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): five Lat: 44.035987 Long: -92.670055 Datum: NAD 83 UTM 15N Soil Map Unit Name Garwin silty clay loam NWI Classification: N/A Are climatic/hydrologic conditions of the site typical for this time of the year? Y Are vegetation X , soil , or hydrology significantly disturbed? Are "normal circumstances"	Project/Site Byron Solar	City/County:	Olmsted	d Sampling Date:	4/28/21			
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, correx, none): none	Applicant/Owner: EDF Renewables	State:	MN	Sampling Point:	WB-102 Up			
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, correx, none): none	Investigator(s): David Kuhlmann	Sect	Section, Township, Range: Section 31 T107N R15W					
Slope (8): five	Landform (hillslope, terrace, etc.): hillslope	Local	Local relief (concave, convex, none): none					
Soil Map Unit Name Garwin sitty clay loam Are climatic Phydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks) Are vegetation X, soil o, or hydrology naturally problematic? Are vegetation To soil o, or hydrology naturally problematic? SUMMARY OF FINDINGS With respect to the property of the year of the second of the second of the second of the year of the	Slope (%): five Lat: 44.035987		Long: -92.670055 Datum: NAD 83 UTM 15N					
Are vegetation X sol	Soil Map Unit Name Garwin silty clay loam		NWI Classification: N/A					
Are vegetation	Are climatic/hydrologic conditions of the site typical for this	time of the year?	Y (I	f no, explain in remarks)				
An every equation soil	Are vegetation X, soil, or hydrology	significantl	significantly disturbed? Are "normal circumstances"					
Hydrophytic vegetation present? N	Are vegetation, soil, or hydrology	naturally p	roblematic?					
Hydric soil present? Y N Is the sampled area within a wetland? N Fyes, optional wetland site ID:	SUMMARY OF FINDINGS			(If needed, explain any ans	wers in remarks.)			
Indicators of wetland hydrology present? N fyes, optional wetland site ID: Remarks: (Explain alternative procedures here or in a separate report.)								
Tree Stratum	Hydric soil present?	Is the	Is the sampled area within a wetland? N					
Tree Stratum	Indicators of wetland hydrology present?	f yes, o	f yes, optional wetland site ID:					
Tree Stratum	Remarks: (Explain alternative procedures here or in a sepa	arate report.)						
VEGETATION - Use scientific names of plants.								
Absolute Nominan Indicator Status Number of Dominant Species N	t	illed agricultural	field					
Absolute Nominan Indicator Status Number of Dominant Species N	VECETATION Use scientific names of plants							
Tree Stratum	·	solute Dominan	Indicator	Dominance Test Worksho	eet			
that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 0 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B) Pervalence Index Worksheet Total % Cover of: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FACW species 0 x2 = 0 FACW species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x5				Number of Dominant Specie	s			
Species Across all Strata: 0 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)	1			•				
Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)	2							
Sapling/Shrub stratum (Plot size: 15)	3			Species Across all Strata	a:(B)			
Sapling/Shrub stratur	4			•				
Prevalence Index Worksheet	5	O - Total Cove		that are OBL, FACVV, or FAC	: <u>0.00%</u> (A/B)			
Total % Cover of: OBL species 0	Sanling/Shrub stratum (Plot size: 15)	U - TOLAT COVE	S I	Prevalence Index Worksh	neet			
OBL species 0	1							
FAC species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column totals 0 (A) 0 (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Woody vine stratum (Plot size: 30) Woody vine stratum (Plot size: 30) Temporary of the stratum of	2				1 = 0			
FACU species 0	3				2 = 0			
Herb stratum (Plot size: 5) = Total Cover UPL species 0 x 5 = 0 Column totals 0 (A) 0 (B)	4			·				
Herb stratum (Plot size: 5)	5							
Prevalence Index = B/A = Prevalence Index = B/A =	/Dist size:	0 = Total Cove	er	· —				
2	Herb stratum (Piot size: 5)			`) <u>U</u> (D)			
Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) New ody vine stratum (Plot size: 30) Remarks: (Include photo numbers here or on a separate sheet) Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic vegetation present? N	1			Prevalence Index = B/A =				
Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic vegetation Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)				Hydrophytic Vegetation I				
Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Pydrophytic vegetation *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	<u> </u>							
Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic ### Hydrophytic vegetation yeresent, unless disturbed or problematic #### Hydrophytic vegetation yeresent? N	5							
8 supporting data in Remarks or on a separate sheet) 10 Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic 1 Hydrophytic vegetation Thydrophytic vegetation Wegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	6			Prevalence index is ≤3	.0*			
8 supporting data in Remarks or on a separate sheet) 10 Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic 2 Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	7			Morphogical adaptation	ns* (provide			
Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)				supporting data in Ren				
Woody vine stratum (Plot size: 30) 1								
Woody vine stratum (Plot size: 30) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	10	- Tatal Cove			ic vegetation*			
1 present, unless disturbed or problematic 2 Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	Woody vine stratum (Plot size: 30)	0 = 10tai Cove	er	 · · · ·				
2 Hydrophytic vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)	1							
0 = Total Cover vegetation present? N Remarks: (Include photo numbers here or on a separate sheet)					d or propression			
Remarks: (Include photo numbers here or on a separate sheet)		0 = Total Cove	er	_				
				present? N	<u> </u>			
tilled ag field		heet)						
	tilled ag field							

SOIL Sampling Point: WB-102 Up

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm the absen	ce of indicators.)
Depth	Matrix		Red	dox Featı	<u>ures</u>			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-18	10YR 2/1	100					clay	
18-40	10YR 2/1	95	10Yr 3/4	5	С	М	clay	
10 10	10111271				Ť		5.4)	
*T 0 = 0		D1-#	DM D d	-I N 4 4 1 - 1	MC - N	111 0		I DI - Dana Linina M - Matrix
	Concentration, D	= Depleti	on, RIVI = Reduce	a Matrix	, IVIS = IV	iasked S		on: PL = Pore Lining, M = Matrix
_	oil Indicators:		0	-l Ol	! NA 4	(04)		lematic Hydric Soils:
	tisol (A1)				ed Matrix	(54)		edox (A16) (LRR K, L, R)
	tic Epipedon (A2)			dy Redo			Dark Surface (S	7) (LRR K, L) Masses (F12) (LRR K, L, R)
	ck Histic (A3)	4.		oped Ma	. ,	1 (54)		
	lrogen Sulfide (A4			-	ky Minera			ark Surface (TF12)
	atified Layers (A5))			ed Matrix		Other (explain in	remarks)
	n Muck (A10)	0 (atrix (F3)			1
	oleted Below Dark		· · · · · · · · · · · · · · · · · · ·		Surface	. ,		
	ck Dark Surface (,			rk Surfa	. ,		rophytic vegetation and weltand
	ndy Mucky Minera	` '		lox Depr	essions ((F8)	hydrology must t	be present, unless disturbed or
^{5 cr}	n Mucky Peat or	Peat (S3)					problematic
Restrictive	Layer (if observe	ed):						
Type:							Hydric soil preser	nt? Y
Depth (inche	es):				•			
Remarks:					_			
	a sould not bo	roochor	1 A 12 accum	od				
B HOHZOI	n could not be	reached	ı - A ız assum	eu				
HYDROLO	nev .							
-	drology Indicate							
	cators (minimum	of one is	required; check				· · · · · · · · · · · · · · · · · · ·	<u>dicators (minimum of two required)</u>
	Water (A1)				Fauna (B			Soil Cracks (B6)
	iter Table (A2)				uatic Plar	. ,		e Patterns (B10)
Saturation						Odor (C	<u> </u>	son Water Table (C2)
	arks (B1)				Rhizosp	heres on	<u> </u>	Burrows (C8)
	nt Deposits (B2)			(C3)	f Dd-			on Visible on Aerial Imagery (C9)
	oosits (B3)					uced Iron		or Stressed Plants (D1)
	nt or Crust (B4) nosits (B5)				ron Reau	iction in I		phic Position (D2) utral Test (D5)
	` '	l Imagan	, (B7)	(C6)	ok Surfoe	o (C7)		utrai Test (D5)
	on Visible on Aeria				ck Surfac or Well Da			
	 Vegetated Concatained Leaves (B9 					aia (D9) Remarks	١	
	•)		Other (E	хріані ін	Remarks)	
Field Obser		V	NI-	V	D = = 41= /:			
Surface wat	•	Yes	No No	<u>X</u>	Depth (i		_{In}	diagtors of wetland
Water table		Yes	No No	X	Depth (i			dicators of wetland
Saturation p	resent <i>?</i> pillary fringe)	Yes	No	Х	Depth (i	ncnes):	"	ydrology present? N
								
Describe red	corded data (strea	am gauge	e, monitoring well	, aerial p	hotos, pi	revious ir	nspections), if available:	
Demorker								
Remarks:								
I								

Project/Site Byron Solar	City/C	ounty:	Olmsted	d S	ampling Date:	4/28/21
Applicant/Owner: EDF Renewables	-	State:	MN	Sa	ampling Point:	WB-102 Wet
Investigator(s): David Kuhlmann		Section	on, Township	p, Range:	Section 31	T107N R15W
Landform (hillslope, terrace, etc.): hillslope		Local relief (concave, convex, none): none				none
Slope (%): five Lat: 44.035987		Long:	-92.67005	55 D	atum: NA	D 83 UTM 15N
Soil Map Unit Name Garwin silty clay loam			NWI (Classification	n:	N/A
Are climatic/hydrologic conditions of the site typical for this	s time of	the year?	<u>Y</u> (l	f no, explair	n in remarks)	
Are vegetation , soil , or hydrology		significantly	disturbed?	А	re "normal circur	mstances"
Are vegetation , soil , or hydrology		naturally pro	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If needed	d, explain any an	swers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present?		Is the sa	ampled area	a within a w	etland?	Υ
Indicators of wetland hydrology present? Y		f yes, opt	tional wetlan	nd site ID:		
Remarks: (Explain alternative procedures here or in a sepa	arate rec	oort.)				
grassy swale that becomes channelized as mo	-	•	and loses	hydrology	· transitions to	giant ragweed
grassy sware that becomes charmenzed as the		wnslopes	and loocs	nyarology	, transitions to	giantragweed
VEGETATION Use scientific names of plants.						
·	solute	Dominan	Indicator	Dominan	ce Test Worksh	eet
		t Species	Staus		Dominant Specie	
1		,			BL, FACW, or FA	
2				Total N	umber of Domina	nt
3				Specie	s Across all Strat	a: (B)
4					Dominant Specie	
5		T. C. L. Cover		that are Ob	BL, FACW, or FA	C: 100.00% (A/B)
Sapling/Shrub stratum (Plot size: 15)	0 =	Total Cover		Drevalen	ce Index Works	hoat
1				Total % C		Heer
2		 -		OBL spec		1 = 0
3				FACW sp		2 = 200
4				FAC spec	cies 0 x	3 = 0
5				FACU spe		4 = 0
	0 =	Total Cover	•	UPL spec		5 = 0
Herb stratum (Plot size: 5)				Column to		A) <u>200</u> (B)
1 Spartina pectinata	70	<u> </u>	FACW	Prevalenc	ce Index = B/A =	2.00
	30	<u>Y</u> .	FACW	I lardy o so ba	rtic Vocatotica	lu dianto ro
3	 -				ytic Vegetation I test for hydroph	
5					nance test is >50	•
6		 •			lence index is ≤	
7		 -		— Morpl	nogical adaptatio	ns* (provide
8					orting data in Rer	
9				separ	ate sheet)	
10					ematic hydrophy	tic vegetation*
<u> </u>	100 =	Total Cover	•	(expla	ain)	
Woody vine stratum (Plot size: 30)					•	etland hydrology must be
	 -			•	esent, unless disturb ophytic	ed or problematic
	0 =	Total Cover			tation	
				prese	ent? Y	_
Remarks: (Include photo numbers here or on a separate s	sheet)					
tilled ag field						

SOIL Sampling Point: WB-102 Wet

Profile Des	cription: (Descri	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the abse	nce of indicators.)
Depth	Matrix			dox Feat				<u> </u>
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-24	10YR 2/1	95	10YR 3/4	5	С	М	clay	
	.01112/1				<u> </u>			
					-			
*Type: C = 0	Concentration, D :	= Depleti	on, RM = Reduce	ed Matrix	, MS = N	/lasked S		tion: PL = Pore Lining, M = Matrix
Hydric Sc	il Indicators:						Indicators for Pro	blematic Hydric Soils:
His	tisol (A1)		Sar	dy Gleye	ed Matrix	(S4)	Coast Prairie F	Redox (A16) (LRR K, L, R)
His	tic Epipedon (A2)		Sar	dy Redo	x (S5)			S7) (LRR K, L)
	ck Histic (A3)			pped Ma			Iron-Manganes	se Masses (F12) (LRR K, L, R)
	lrogen Sulfide (A4	1)		•	ky Minera	al (F1)	Very Shallow [Oark Surface (TF12)
	atified Layers (A5)			-	ed Matrix		Other (explain	* *
	m Muck (A10)	,			atrix (F3)			
	oleted Below Dark	Surface			Surface			
	ck Dark Surface (ark Surfa	. ,	*Indicators of hy	drophytic vogotation and waltand
	ndy Mucky Minera	•			essions (, ,		drophytic vegetation and weltand be present, unless disturbed or
	n Mucky Peat or			iox Debi	62210112	(ГО)	nyurology mus	problematic
)					problematic
Restrictive	Layer (if observe	ed):						
Type:							Hydric soil pres	ent? Y
Depth (inche	es):				-			
Remarks:					_			
rtemants.								
LIVERGLA	201							
HYDROL								
_	drology Indicato							
	cators (minimum	of one is	required; check					ndicators (minimum of two required)
Surface	Water (A1)			Aquatic	Fauna (B	13)	Surfac	e Soil Cracks (B6)
High Wa	ater Table (A2)			True Aq	uatic Plar	nts (B14)	Draina	ge Patterns (B10)
Saturation	on (A3)			Hydroge	n Sulfide	Odor (C	·	eason Water Table (C2)
Water M	larks (B1)			Oxidized	l Rhizosp	heres on		sh Burrows (C8)
Sedimer	nt Deposits (B2)			(C3)			Satura	tion Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)			Presenc	e of Redu	uced Iron		d or Stressed Plants (D1)
Algal Ma	at or Crust (B4)			Recent I	ron Redu	ıction in T	illed Soils X Geom	orphic Position (D2)
Iron Dep	osits (B5)			(C6)			X FAC-N	leutral Test (D5)
Inundati	on Visible on Aeria	ıl Imager	/ (B7)	Thin Mu	ck Surfac	e (C7)		
Sparsely	Vegetated Conca	ve Surfa	ce (B8)	Gauge o	or Well Da	ata (D9)		
Water-S	tained Leaves (B9)		Other (E	xplain in	Remarks)	
Field Obser	vations:							
Surface wat		Yes	No	Х	Depth (i	inches):		
Water table		Yes	No No	X	Depth (i	-	 ,	ndicators of wetland
Saturation p	•	Yes	No	X	Depth (i	,		hydrology present?
	pillary fringe)				• • `	,		
		am dand	e monitoring well	aerial n	hotos n	revious ir	nspections), if available:	
Describe rec	Sorded data (Stree	iii gaag	z, monitoring wen	, acriai p	710t03, p	i C vious ii	ispections), if available.	
Remarks:								

Project/Site Byron Solar	City/Co	unty:	Olmsted		Sampling Date: _	4/28/21	
Applicant/Owner: EDF Renewables		State:	MN		Sampling Point:	WB-103 Up	
Investigator(s): David Kuhlmann		Section	n, Township	, Range:	Section 3	6 T107N R16W	
Landform (hillslope, terrace, etc.): hillslope		Local re	elief (concav	e, convex	, none):	convex	
Slope (%): 2 to 5 Lat: 44.032849		₋ong:	-92.68737	8	Datum: N	AD 83 UTM 15N	
Soil Map Unit Name Clyde-Floyd complex. 1 to 4 percent sl	lopes	VWI Classification: N/A					
Are climatic/hydrologic conditions of the site typical for this	time of th						
Are vegetation , soil , or hydrology	s						
Are vegetation , soil , or hydrology		, is normal on our notations					
SUMMARY OF FINDINGS		, ,		(If need	ed, explain any ai	nswers in remarks.)	
Hydrophytic vegetation present? N						,	
Hydric soil present?		Is the sampled area within a wetland?					
Indicators of wetland hydrology present?		f yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							
Remarks: (Explain alternative procedures here or in a sepa	агате геро	ort.)					
VEGETATION Use scientific names of plants.							
·	a alveta - F	Dominan	Indicator	Domina	nce Test Works	hoot	
	solute E Cover t		Indicator Staus		of Dominant Spec		
1	00101	Oposios	Stado		OBL, FACW, or FA		
2				Total	Number of Domina		
3				Spec	cies Across all Stra	ata: (B)	
					of Dominant Spec		
	0 = T	otal Cover		triat are t	OBL, FACW, or FA	AC: 50.00% (A/B)	
Sapling/Shrub stratum (Plot size: 15)		otal Covel	-	Prevale	nce Index Work	sheet	
1					Cover of:		
2				OBL spe		x 1 = 5	
3						x 2 = 0	
4				FAC spe		x 3 = 135	
5				FACU s		x 4 = 180	
	0 = T	otal Cover		UPL spe		(5 = <u>0</u>	
Herb stratum (Plot size: 5)				Column	·	(A) <u>320</u> (B)	
	45	Y .	FAC	Prevale	nce Index = B/A =	3.37	
	45 5	<u>Y</u> N	FACU	I la relación	hydia Vanatatian	Indicators	
3 Equisetum fluviatile			OBL		hytic Vegetation bid test for hydrop		
5					ninance test is >5		
6	 -				valence index is ≤		
7				— Mor	phogical adaptati	ons* (provide	
8					porting data in Re		
9				sepa	arate sheet)		
10					blematic hydroph	ytic vegetation*	
<u></u>	95 = T	otal Cover		(exp	olain)		
Woody vine stratum (Plot size: 30) 1				1	oresent, unless distur	wetland hydrology must be bed or problematic	
				•	lrophytic etation		
	0 =T	otal Cover		_	sent? N		
Remarks: (Include photo numbers here or on a separate sh	heet)			*			
. (,						

SOIL Sampling Point: WB-103 Up

Depth (Inches) Color (moist) W Type* Loc** Texture Remarks								
0-18								
18-24 10YR 3/1 95 10YR 3/4 5 C M sandy clay *Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils:								
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R)								
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R)								
Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils: Coast Prairie Redox (A16) (LRR K, L, R)								
Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils: Coast Prairie Redox (A16) (LRR K, L, R)								
Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils: Coast Prairie Redox (A16) (LRR K, L, R)								
Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils: Coast Prairie Redox (A16) (LRR K, L, R)								
Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils: Coast Prairie Redox (A16) (LRR K, L, R)								
Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils: Coast Prairie Redox (A16) (LRR K, L, R)								
Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils: Coast Prairie Redox (A16) (LRR K, L, R)								
Hydric Soil Indicators: Histisol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils: Coast Prairie Redox (A16) (LRR K, L, R)	\dashv							
Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R)	<u> </u>							
	ŀ							
Death Conference (C7) (LDD I/ L)								
Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) (LRR K, L) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) (LRR K, L, R)								
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (explain in remarks)								
2 cm Muck (A10) Depleted Matrix (F3)	ŀ							
Depleted Below Dark Surface (A11) X Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) *Indicators of hydrophytic vegetation and weltand	.							
Sandy Mucky Mineral (S1) Redox Depressions (F8) hydrology must be present, unless disturbed or								
5 cm Mucky Peat or Peat (S3) problematic								
Restrictive Layer (if observed):								
Type: Hydric soil present? Y_								
Depth (inches):								
Remarks:								
	ŀ							
HYDROLOGY								
III DROLOGI								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)	ed)							
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)	red)							
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) True Aquatic Plants (B14) Drainage Patterns (B10)	<u>red)</u>							
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	<u>-ed)</u>							
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Primary Indicators (minimum of two required; check all that apply) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Secondary Indicators (minimum of two required; check all that apply) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)								
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Aquatic Fauna (B13) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Case ondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)								
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Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Stained Leaves (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Field Observations: Surface water present? Yes No X Depth (inches): Indicators of wetland								
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Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Water table present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Indicators of wetland hydrology present? N Remarks: Remarks:								
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Water Stained Leaves (B9) Water Stained Leaves (Pause) Water Applications (minimum of two requires) Aquatic Fauna (B13) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Factorial Test (D5) Indicators of wetland No X Depth (inches): Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Indicators of wetland hydrology present? N Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								

Project/Site Byron Solar	_ City/	County:	Olmste	Sampling Date:	4/28/21		
Applicant/Owner: EDF Renewables		State:	MN	Sampling Point:	WB-103 Wet		
Investigator(s): David Kuhlmann		Section	on, Townshi	, Range: Section 36	T107N R16W		
Landform (hillslope, terrace, etc.): depre	ession	Local r	elief (concav	e, convex, none):	concave		
Slope (%): 0 to 2 Lat: 44.03284	9	Long:	-92.6873	8 Datum: NA	D 83 UTM 15N		
Soil Map Unit Name Clyde-Floyd complex. 1 to 4 perc	cent slopes		\WI	lassification:	PEM1B		
Are climatic/hydrologic conditions of the site typical for	or this time c	of the year?	Y(I	no, explain in remarks)			
Are vegetation, soil, or hydro	ology	significantly	y disturbed?	Are "normal circur	nstances"		
Are vegetation , soil , or hydro	ology	naturally pr	oblematic?		present? Yes		
SUMMARY OF FINDINGS		· 		(If needed, explain any an	swers in remarks.)		
Hydrophytic vegetation present? Y							
Hydric soil present? Y	_	Is the sampled area within a wetland?					
Indicators of wetland hydrology present?	_	f yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							
(=	*	 ,			ļ		
VEGETATION Use scientific names of plar	nte						
PLOCIATION - 000 0010111110 11111100 01 p.a.	Absolute	Dominan	Indicator	Dominance Test Worksh	 leet		
Tree Stratum (Plot size: 30)	% Cover		Staus	Number of Dominant Specie	es		
1				that are OBL, FACW, or FA			
2				Total Number of Domina			
3				Species Across all Strat			
4				Percent of Dominant Specie			
5	0	= Total Cove	<u> </u>	that are OBL, FACW, or FA	3: 100.00% (A/D)		
Sapling/Shrub stratum (Plot size: 15	,	- TULAI OUVUI	l	Prevalence Index Works	heet		
1 Salix interior	10	Υ	FACW	Total % Cover of:	11001		
2				OBL species 50 x	1 = 50		
3				FACW species 60 x	2 = 120		
4				· —	3 = 0		
5	40	T 1-1 Cove		· —	4 = 0		
Herb stratum (Plot size: 5	10	= Total Cove	r	· —	5 = 0 A) 170 (B)		
	.)	V	E 4 (C) 4/		, , ,		
1 Phalaris arundinacea 2 Equisetum fluviatile	50	- Y	FACW OBL	Prevalence Index = B/A =	1.55		
3 Equiseium nuvialile				Hydrophytic Vegetation	Indicators:		
4				Rapid test for hydroph			
5				X Dominance test is >50	, ,		
6				X Prevalence index is ≤	3.0*		
7				Morphogical adaptation			
8				supporting data in Rei	narks or on a		
9				separate sheet)			
10	100	= Total Cove		Problematic hydrophy (explain)	tic vegetation [*]		
Woody vine stratum (Plot size: 30	1	- IUlai Oovoi	l	 ` ' ' '			
1	,			*Indicators of hydric soil and w present, unless disturb			
2				Hydrophytic	· ·		
	0	= Total Cover	<u></u>	vegetation			
				present? Y	_		
Remarks: (Include photo numbers here or on a separ	rate sheet)						

SOIL Sampling Point: WB-103 Wet

Profile Desc	cription: (Descri	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the absen	ce of indicators.)
Depth	Matrix			dox Feat				i i
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-18	10YR 2/1	95	10YR 3/4	5	С	М	sandy clay	
18-24	10YR 3/1	95	10YR 3/4	5	С	M		
10-24	10113/1	95	10113/4	5	<u> </u>	IVI	sandy clay	
					 			
	Concentration, D :	= Depleti	on, RM = Reduce	ed Matrix	., MS = N	lasked S		on: PL = Pore Lining, M = Matrix
	il Indicators:		_					lematic Hydric Soils:
	tisol (A1)				ed Matrix	(S4)		edox (A16) (LRR K, L, R)
	tic Epipedon (A2)			dy Redo			Dark Surface (S	
	ck Histic (A3)			pped Ma	. ,			e Masses (F12) (LRR K, L, R)
	lrogen Sulfide (A			-	ky Minera			ark Surface (TF12)
	atified Layers (A5))			ed Matrix		Other (explain in	n remarks)
	n Muck (A10)				atrix (F3)			
	oleted Below Dark		· · · —		Surface	. ,		
	ck Dark Surface (•			ark Surfa			rophytic vegetation and weltand
	ndy Mucky Minera			lox Depr	essions	(F8)	hydrology must	be present, unless disturbed or
5 cr	n Mucky Peat or	Peat (S3)					problematic
Restrictive	Layer (if observe	ed):						
Type:							Hydric soil prese	nt? Y
Depth (inche	es):				•			
Remarks:					_			
r torriarito.								
HYDROLO	OGY							
	drology Indicato	rs.						
_	cators (minimum		required: check	all that a	nnly)		Socondary In	diastors (minimum of two required)
	Water (A1)	OI OIIE IS	required, check		рріу) Fauna (B	12)		dicators (minimum of two required) Soil Cracks (B6)
	iter Table (A2)				rauna (b uatic Plar			e Patterns (B10)
Saturation						Odor (C1		ason Water Table (C2)
	arks (B1)						<u> </u>	n Burrows (C8)
	nt Deposits (B2)			(C3)	i Kilizusp	illeres on		on Visible on Aerial Imagery (C9)
	posits (B3)				e of Red	uced Iron		or Stressed Plants (D1)
	at or Crust (B4)						<u></u>	rphic Position (D2)
	osits (B5)			(C6)	i on i touc			eutral Test (D5)
	on Visible on Aeria	ıl Imager	(B7)		ck Surfac	ce (C7)		
	Vegetated Conca				or Well Da			
	tained Leaves (B9		. ,			Remarks)	
Field Obser	vations:	,		. `	<u> </u>		, 	
Surface wat		Yes	No	Х	Depth (i	inches):		
Water table	•	Yes	No	$\frac{\chi}{\chi}$	Depth (i	-	In	dicators of wetland
Saturation p	•	Yes	No	$\frac{\chi}{\chi}$	Depth (i	,		ydrology present? Y
	pillary fringe)				• • •	,		
		am ตอมต	e. monitorina well	. aerial n	hotos n	revious ir	nspections), if available:	
		99	s,eg	, a.oa. p	отоо, р			
Remarks:								

Applicant/Owner: EDF Renewables State: MN Sampling Point: WB-104 Up Investigator(s): David Kuhlmann Section, Township, Range: Section 35 T107N R16W Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 2 to 5 Lat: 44.033521 Long: -92.701994 Datum: NAD 83 UTM 15N Soil Map Unit Name Tripoli sitly clay loam, 0 to 2 percent slopes WWI Classification: N/A Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks) Are vegetation X, soil , or hydrology significantly disturbed? Are "normal circumstances" present? Yes SUMMARY OF FINDINGS (If needed, explain any answers in remarks.) Hydrophytic vegetation present? N Is the sampled area within a wetland? N Is the s
Landform (hillslope, terrace, etc.): hillslope
Landform (hillslope, terrace, etc.): hillslope
Slope (%): 2 to 5
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent slopes Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks) Are vegetation X , soil , or hydrology significantly disturbed? Are "normal circumstances" present? Yes Are vegetation , soil , or hydrology naturally problematic? (If needed, explain any answers in remarks.) BY Is the sampled area within a wetland? N Indicators of wetland hydrology present? N Is the sampled area within a wetland? N Indicators of wetland hydrology present? It illed ag field outside of wetland swale VEGETATION Use scientific names of plants. Absolute Dominan Indicator Staus Tree Stratum (Plot size: 30) Absolute Dominan Indicator Staus 1
Are vegetation X , soil , or hydrology significantly disturbed? Are "normal circumstances" present? Yes SUMMARY OF FINDINGS (If needed, explain any answers in remarks.) Hydrophytic vegetation present? N
Are vegetation soil or hydrology naturally problematic? present? Yes SUMMARY OF FINDINGS (If needed, explain any answers in remarks.) Hydrophytic vegetation present? N Is the sampled area within a wetland? N Indicators of wetland hydrology present? N f yes, optional wetland site ID: Remarks: (Explain alternative procedures here or in a separate report.) tilled ag field outside of wetland swale VEGETATION Use scientific names of plants. Absolute Dominan Indicator Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 0 (B)
Are vegetation, soil, or hydrology
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? Itilled ag field outside of wetland swale VEGETATION Use scientific names of plants. Tree Stratum (Plot size: 30) Absolute Dominan Indicator Staus My Cover t Species Staus Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species that are OBL, FACW, or FAC: 0 (B) Total Number of Dominant Species that are OBL, FACW, or FAC: 0 (B)
Hydric soil present? Indicators of wetland hydrology present? N f yes, optional wetland site ID: Remarks: (Explain alternative procedures here or in a separate report.) tilled ag field outside of wetland swale VEGETATION Use scientific names of plants. Tree Stratum (Plot size: 30) Absolute Dominan Indicator Staus Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Species Across all Strata: 0 (B)
Indicators of wetland hydrology present? N
Remarks: (Explain alternative procedures here or in a separate report.) tilled ag field outside of wetland swale VEGETATION Use scientific names of plants. Absolute Dominan Indicator Staus Tree Stratum (Plot size: 30)
tilled ag field outside of wetland swale VEGETATION Use scientific names of plants. Absolute Dominan Indicator Staus Outside Of Wetland swale Absolute Dominan Indicator Staus Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 0 (B)
tilled ag field outside of wetland swale VEGETATION Use scientific names of plants. Absolute Dominan Indicator Staus Outside Of Wetland swale Absolute Dominan Indicator Staus Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 0 (B)
VEGETATION Use scientific names of plants. Absolute Dominan Indicator Staus Pree Stratum (Plot size: 30) Cover t Species Staus Tree Stratum (Plot size: 30) Total Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 0 (B)
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Absolute Dominan Indicator Staus Tree Stratum
Tree Stratum (Plot size: 30) % Cover t Species Staus Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 0 (B)
1 that are OBL, FACW, or FAC: 0 (A) 2 Total Number of Dominant Species Across all Strata: 0 (B)
Species Across all Strata: 0 (B)
4 Percent of Dominant Species
that are ODL FACIAL or FAC. 0.000/ /A/D
5 that are OBL, FACW, or FAC: (A/B) 0 = Total Cover
Sapling/Shrub stratum (Plot size: 15) Prevalence Index Worksheet
1 Total % Cover of:
OBL species 0 x 1 = 0
3 FACW species 0 x 2 = 0
4 FAC species 0 x 3 = 0
5 FACU species 0 x 4 = 0
Herb stratum (Plot size: 5) Column totals 0 (A) 0 (B)
1 Prevalence Index = B/A =
2 Hydrophytic Vegetation Indicators:
4 Rapid test for hydrophytic vegetation
5 Dominance test is >50%
6 Prevalence index is ≤3.0*
7 Morphogical adaptations* (provide
8 supporting data in Remarks or on a
9 separate sheet)
10 Problematic hydrophytic vegetation* 0 = Total Cover (explain)
Woody vine stratum (Plot size: 30
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
2 Hydrophytic
0 = Total Cover vegetation
present? N
Remarks: (Include photo numbers here or on a separate sheet)

SOIL Sampling Point: WB-104 Up

Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface Water (A1) Saturation (A3) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B3) Iron Deposits (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Marke (B9) Water Marke (B9) Drift (C6) Saturation (C4) Sturtace Valer (A1) Recent Iron Reduction in Tilled Soils Gauge or Well Data (D9) Water Valer (A1) Water Marke (B1) Sediment Deposits (B5) Sediment Deposits (B5) Sediment Deposits (B3) Presence of Reduced Iron (C4) Sturtace Or Stressed Plants (D1) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Mater table present? Yes No X Depth (inches): Mater table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Saturation present? Yes No X Depth (inches): Indicators of wetland hydrology present? N	Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the abs	ence of indicators.)	
0-24 10YR 2/1 100 10YR 3/4 5 C M clay 24-30 10YR 3/4 5 C M clay 24-30 10YR 4/2 55 10YR 3/4 5 C M clay 24-30 10YR 4/2 55 10YR 3/4 5 C M clay 3 Clayed Matrix (S) 4 C M clay 4 C M	Depth	<u>Matrix</u>		Red	dox Featı	<u>ures</u>				
24-30 10VR 4/2 95 10VR 3/4 5 C M clay Type: C = Cancentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. "Location: PL = Pore Lining, M = Matrix Hydric Soil Indicators: Histosol (A1) Sandy Redox (S5) Sandy Redox (S5) Sardy R	(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
24-30 10VR 4/2 95 10VR 3/4 5 C M clay Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. "Location: PL = Pore Lining, M = Matrix Hydric Soil indicators: Hististo (A1) Sandy Redox (S5) Sardy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Hististo (A2) Sandy Redox (S5) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Usary Micro Matrix (S6) Black Histic (A3) Stratified Layers (A5) Loarny Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Dark Surface (A11) Redox Dark Surface (F6) X Trink Dark Surface (A12) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) For mixely Peat or Peat (S3) Restrictive Layer (if observed): Type: Hydric soil present? Y Wetland Hydrology Indicators: Hydric soil present? Y Wetland Hydrology Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface (A12) Aqualic Fauma (B13) Surface (F7) Saturation (A3) Hydrogen Sulfide Odor (C1) Dy-Season Water Table (A2) Surface Water (A1) Present (B14) High Water Table (A2) True Aqualic Plants (B14) High Water Table (A2) True Aqualic Plants (B14) Surface Water (A1) Surface Water (A1) Water Marks (B1) Sediment Deposits (B3) Presence of Reduced from (C4) Stunted or Stressed Plants (C1) Sadgment Deposits (B3) Presence of Reduced from (C4) Stunted or Stressed Plants (C1) Sparsely Vegetated Concave Surface (B8) Gauge or Well Data (D9) Water Stained Leaves (B9) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Surface (F7) Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Water table present? Yes No X Depth (inches): Material Plants (B1) Note that the present of the Medical Plants (B1) Note that the present of the Medical Plants (B1) Note that the present of the Medical Plants (B1) Water Stained Caves (B9) Describer recorded data (stream gauge, monitoring well, serial photos, previous inspections), if available:	0-24	10YR 2/1	100					clay		
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. *Location: PL = Pore Lining, M = Matrix Hydric Soil indicators: Histor (A1)	24-30	10YR 4/2	95	10YR 3/4	5	С	М	clav		
Hydric Soil Indicators: Histisc (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Suffide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) X Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Trick Dark Surface (A12) Sestrictive Layer (if observed): Type: Depth (inches): Hydric soil present? Y Wetland Hydrology Indicators: Hydrogen Surface Water (A1) High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Saturation (A3) Hydrogen Sulfide Odor (C1) Displacement Sulfide Codor (C1) Displacement Sulfide Codor (C1) Displacement Sulfide Codor (C1) Algal Mat or Crust (B4) In Deposits (B3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Gauge or Well Data (D9) Water-Stained Leaves (B9) United Sulface Water (B8) Gauge or Well Data (D9) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Other (Explain in Remarks) Indicators for indicators (minimum of two required) Source water Table (C2) Displacement Table (C2) Displacement Table (C2) Displacement Table (C2) Displacement Table (C2) FAC-Neutral Test (D5) Indicators of wetland hydrology present? N Indicators of wetland hydrology present? N Indicators of wetland hydrology present? N Indicators of wetland hydrology present? N Indicators of wetland hydrology present? N	2.00	10111 1/2		10111071				olay		
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Water Marks (B1) Sediment Deposits (B2) Orift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Field Observations: Surface water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Water Stained Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Staturation Visible on Aerial Imagery (C9) Staturation Visible on Aerial Imagery (C9) Staturation Fosition (D2) FAC-Neutral Test (D5) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Field Observations: Surface water present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Indicators of wetland hydrology present? N Remarks:									` ,	
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Drift Deposits (B3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Field Observations: Surface water present? Water table present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						Rnizosp	neres on		* *	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Field Observations: Surface water present? Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Water table present? Yes N Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Water table present? N Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N Water (B5)						a of Radi	iced Iron			
Iron Deposits (B5) (C6) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Gauge or Well Data (D9) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Saturation present? Yes No X Depth (inches): (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		, ,								
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Water table present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? N (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:						ion ixeau	iction in i			
Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Saturation present? Yes No X Depth (inches): Saturation present? Yes No X Depth (inches): (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:			ıl Imager	/ (B7)		ck Surfac	e (C7)		redual rest (Do)	
Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Saturation present? Yes No X Depth (inches): (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:							` '			
Field Observations: Surface water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Saturation present? Yes No X Depth (inches): Indicators of wetland hydrology present? N (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		•)		
Surface water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Saturation present? Yes No X Depth (inches): (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		•	,					<u>'</u>		
Water table present? Yes No X Depth (inches): Indicators of wetland hydrology present? No X Depth (inches): hydrology present? N (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:			Yes	No	X	Denth /i	nches).			
Saturation present? Yes No X Depth (inches): hydrology present? N (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		-					,		Indicators of wetland	
(includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		•					•			
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	-		. 55			V				
Remarks:			m dalla	monitoring well	aerial n	hotos n	avious ir	enections) if available		
	Describe 160	orucu uata (Sties	ııı yauy	s, monitoring well	, a c πaπ β	notos, pr	evious II	ispections), ii avaliable		
	Remarks:									
Cample located approximately 2 loct higher in clevation along break in vegetation		ocated approv	imately	2 feet higher in	n elevet	ion alor	na hreal	c in vegetation		
		Juliou applox	atory	_ root mgnor ii	. Ciovat	.5.7 4101	.g Dicai	vogotation		

Project/Site Byron Solar	City/County:	Olmsted	d Sampling Date:	4/28/21
Applicant/Owner: EDF Renewables	State:	MN		WB-104 Wet
Investigator(s): David Kuhlmann		on, Township		5 T107N R16W
Landform (hillslope, terrace, etc.): swale	Local r	elief (concav	re, convex, none):	concave
Slope (%): 2 to 5 Lat: 44.033567	Long:			AD 83 UTM 15N
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent slo			Classification:	PEM1B
Are climatic/hydrologic conditions of the site typical for this t	-		f no, explain in remarks)	
Are vegetation , soil , or hydrology	=	y disturbed?	Are "normal circu	ımstances"
Are vegetation , soil , or hydrology		oblematic?	7110	present? Yes
SUMMARY OF FINDINGS			(If needed, explain any ar	nswers in remarks.)
Hydrophytic vegetation present? Y				
Hydric soil present? Y	Is the s	ampled area	a within a wetland?	Υ
Indicators of wetland hydrology present? Y	f yes, op	otional wetlan	nd site ID:	
Remarks: (Explain alternative procedures here or in a separ	ate report.)			
, in the state of	, ,			
	wetland swale	e		
VEGETATION Use scientific names of plants.				
Abso	olute Dominan	Indicator	Dominance Test Works	heet
	over t Species	Staus	Number of Dominant Spec	
1			that are OBL, FACW, or FA	
2			Total Number of Domina	
3			Species Across all Stra	``
			Percent of Dominant Spec	
5	= Total Cove	<u> </u>	that are OBL, FACW, or FA	(A/b)
Sapling/Shrub stratum (Plot size: 15)		'	Prevalence Index Works	sheet
1			Total % Cover of:	
2			OBL species 0	x 1 =0
3			FACW species 100	
4				×3 = 0
5	= Total Cove		· <u>—</u>	x 4 = 0 x 5 = 0
Herb stratum (Plot size: 5)	= 10tal Cove	r	·	(A) = 0 $(A) = 200$ (B)
· ——·	00 Y	FACW	Prevalence Index = B/A =	
2 priatans arundinacea	<u> </u>	FACW	Prevalence index – b/A -	2.00
3			Hydrophytic Vegetation	Indicators:
4			Rapid test for hydrop	
5			X Dominance test is >5	0%
6			X Prevalence index is ≤	£3.0*
7			Morphogical adaptati	
8			supporting data in Re	marks or on a
9			separate sheet)	utia va aatatian*
	00 = Total Cove		Problematic hydrophy (explain)	file vegetation
Woody vine stratum (Plot size: 30)			*Indicators of hydric soil and	wotland hydrology must be
1			present, unless distur	, .,
2			Hydrophytic	
	= Total Cove	r	vegetation	
			present? Y	
Remarks: (Include photo numbers here or on a separate she	∍et)			

SOIL Sampling Point: WB-104 Wet

Profile Des	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Red	dox Feat	<u>ures</u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-14	10YR 2/1	95	10YR 3/4	5	С	М	clay		
24-30	10YR 4/2	90	10YR 5/8	10	С	М	clay		
					<u> </u>				
*Typo: C = (Concentration D :	– Doploti	on PM - Poduce	d Matrix	MS - M	lacked S	and Crains **Locati	n: DL - Poro Lining M - Matrix	
		= Depleti	on, RM = Reduce	ed Matrix	, IVIS = IV	iasked S		on: PL = Pore Lining, M = Matrix lematic Hydric Soils:	
_	oil Indicators:		Con	dy Clay	ad Matrix	(04)		-	
	tisol (A1)			dy Gleye		(54)	Dark Surface (S	edox (A16) (LRR K, L, R)	
	tic Epipedon (A2)			dy Redo				e Masses (F12) (LRR K, L, R)	
	ck Histic (A3)	4)		pped Ma	. ,	-I /E4\		. , , , , , , , , , , , , , , , , , , ,	
	lrogen Sulfide (A4	•		my Muck	-			ark Surface (TF12)	
	atified Layers (A5))		my Gley			Other (explain in	remarks)	
	m Muck (A10)	Curfoss		oleted Ma	. ,				
	oleted Below Dark		· · —	lox Dark			** ** * ** **		
	ck Dark Surface (•		oleted Da		. ,		rophytic vegetation and weltand	
	ndy Mucky Minera	. ,		lox Depr	essions ((F8)	nyarology must	be present, unless disturbed or	
5 cr	n Mucky Peat or	Peat (53)					problematic	
	Layer (if observe	ed):							
Type:					_		Hydric soil prese	nt?Y	
Depth (inche	es):				- -				
Remarks:									
HYDROLO	OGY								
	drology Indicato	rs.							
_			required; check	all that a	nnlu)		0	dik (i-i f ki d)	
		or one is	required; check a			40\		dicators (minimum of two required)	
	Water (A1)				Fauna (B			Soil Cracks (B6)	
	iter Table (A2)				uatic Plar			e Patterns (B10)	
Saturation	, ,					Odor (C	· ·	ason Water Table (C2) n Burrows (C8)	
	arks (B1) nt Deposits (B2)			(C3)	Rnizosp	neres on		on Visible on Aerial Imagery (C9)	
	oosits (B3)				e of Redi	uced Iron		or Stressed Plants (D1)	
	at or Crust (B4)			•				rphic Position (D2)	
	osits (B5)			(C6)	ion Redu	iction in i		eutral Test (D5)	
	on Visible on Aeria	ıl İmaner	, (B7)	. ' '	ck Surfac	o (C7)	A PAC-NE	edital Test (D5)	
	Vegetated Conca		· · ·	•	or Well Da				
	tained Leaves (B9					Remarks	١		
	,	,		Other (L	.хріант ін	Itemants	<i>'</i>		
Field Obser		Vaa	Na	V	Donth /	nahaa\.			
Surface wate	•	Yes	No	X	Depth (i		_{In}	dicators of watland	
Water table Saturation p		Yes Yes	No No	X	Depth (i Depth (i			dicators of wetland ydrology present?	
	pillary fringe)	res	NO		Deptii (i	nches).	"	ydrology present? Y	
					h-4				
Describe red	corded data (strea	am gauge	e, monitoring well	, aeriai p	notos, pi	revious ii	nspections), if available:		
Remarks:									
ixemarks.									
Ī									

Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/28/21
Applicant/Owner: EDF Renewables	State:	: MN	Sampling Point:	WB-105 Up
Investigator(s): David Kuhlmann	Sec	ction, Township	p, Range: Section 35	T107N R16W
Landform (hillslope, terrace, etc.): hillslope	Loca	l relief (concav	ve, convex, none):	convex
Slope (%): 2 to 5 Lat: 44.032431	Long:	-92.7031		D 83 UTM 15N
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent		١W١	Classification:	N/A
Are climatic/hydrologic conditions of the site typical for this	s time of the year?	Y (I	f no, explain in remarks)	
Are vegetation X, soil , or hydrology	significar	ntly disturbed?	Are "normal circun	nstances"
Are vegetation, soil, or hydrology	naturally	problematic?		present? Yes
SUMMARY OF FINDINGS			(If needed, explain any ans	swers in remarks.)
Hydrophytic vegetation present? N				
Hydric soil present? Y	Is the	sampled area	a within a wetland?	N
Indicators of wetland hydrology present?	f yes,	optional wetlar	nd site ID:	
Remarks: (Explain alternative procedures here or in a sep	l parate report.)			
tilled ag	field outside of	wetland swa	le	
VEGETATION Use scientific names of plants.				
·	osolute Dominan	Indicator	Dominance Test Worksh	eet
	Cover t Species		Number of Dominant Specie	
1			that are OBL, FACW, or FAC	
2			Total Number of Dominar	
3			Species Across all Strata	a: (B)
			Percent of Dominant Specie	
5	0 = Total Cov		that are OBL, FACW, or FAC	C: <u>0.00%</u> (A/B)
Sapling/Shrub stratum (Plot size: 15)		/ei	Prevalence Index Worksh	neet
1			Total % Cover of:	icet
2	<u> </u>		OBL species 0 x	1 = 0
3				2 = 0
4			· —	3 = 0
5			·	4 = 0
(District)	0 = Total Cov	/er	· —	5 = <u>0</u>
Herb stratum (Plot size: 5			Column totals 0 (A	(B)
			Prevalence Index = B/A =	
			Hydrophytic Vegetation I	ndiantare
<u></u>			Rapid test for hydroph	
5			Dominance test is >50	
6	<u> </u>		Prevalence index is ≤3	
7			Morphogical adaptation	ns* (provide
8			supporting data in Ren	
9			separate sheet)	
10			Problematic hydrophyt	ic vegetation*
- (Diet sies)	0 = Total Cov	/er	(explain)	
Woody vine stratum (Plot size: 30)			*Indicators of hydric soil and we present, unless disturbe	
2			Hydrophytic	ed of problematic
	0 = Total Cov	/er	vegetation	
			present? N	_
Remarks: (Include photo numbers here or on a separate s	sheet)		<u>!</u>	1

SOIL Sampling Point: WB-105 Up

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the abse	ence of indicators.)				
Depth	<u>Matrix</u>		Red	dox Featı	<u>ures</u>							
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks				
0-24	10YR 2/1	100					clay					
24-30	10YR 4/2	95	10YR 3/4	5	С	М	clay					
2.00	10111 1/2	- 00	10111011				olay	+				
*T 0 0		Dl. t	DM D	1.84 . ()	L	1. 1. 1.0		for Discounting M. Matin				
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
			0	-l Ol	I NA 4 i	(04)		<u> </u>				
	isol (A1)				ed Matrix	(54)		Redox (A16) (LRR K, L, R)				
	ic Epipedon (A2)			dy Redo	. ,			(S7) (LRR K, L) se Masses (F12) (LRR K, L, R)				
	ck Histic (A3)	4.		oped Ma	. ,	1 (54)						
	lrogen Sulfide (A4	,		-	ky Minera			Dark Surface (TF12)				
	atified Layers (A5))			ed Matrix		Other (explain	in remarks)				
	n Muck (A10)	0 (atrix (F3)			,				
	leted Below Dark				Surface	. ,						
	ck Dark Surface (•			ırk Surfa	. ,		ydrophytic vegetation and weltand				
	dy Mucky Minera			lox Depr	essions ((F8)	hydrology mus	t be present, unless disturbed or				
5 cr	n Mucky Peat or	Peat (S3)					problematic				
Restrictive	Layer (if observe	ed):										
Type:							Hydric soil pres	sent? Y				
Depth (inche	es):				•							
Remarks:												
HYDROLO	ng Y											
	drology Indicate	re:						1				
	0,		wa wujiwa du aba ali	all that a	- n l . ı\		0	1. P. d /				
		or one is	required; check a			40)		Indicators (minimum of two required)				
	Water (A1)				Fauna (B	•		ce Soil Cracks (B6)				
	iter Table (A2)				uatic Plar			age Patterns (B10)				
Saturatio						Odor (C1	· ·	eason Water Table (C2)				
	arks (B1)			(C3)	Rnizosp	neres on		ish Burrows (C8)				
	nt Deposits (B2) posits (B3)				o of Podu	uced Iron		ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)				
	it or Crust (B4)							norphic Position (D2)				
	osits (B5)			(C6)	ion ixeau	iction in i		Neutral Test (D5)				
	on Visible on Aeria	ıl İmanen	(B7)		ck Surfac	e (C7)		vedual rest (D3)				
	Vegetated Conca		· · ·		r Well Da	` '						
	tained Leaves (B9					Remarks)					
	•	,			лрічії ії	rtomanto	<u>'</u>					
Field Obser Surface water		Yes	No	Χ	Depth (i	nchee).						
Water table	-	Yes	No	$\frac{\hat{X}}{X}$	Depth (i	,		Indicators of wetland				
Saturation p	•	Yes	No	$\frac{\hat{x}}{x}$	Depth (i	•		hydrology present? N				
-	pillary fringe)	103			- Sobai (i	. 101 103 <i>j</i> .		, 5.101097 prodefit:				
		m goue	monitoring well	aerial n	hotos s	rovious ir	enections) if available					
Describe 160	orueu uata (strea	ını yauge	s, monitoring well	, a c πaπ β	ποιος, ρι	evious II	spections), if available	•				
Remarks:												
	ocated approv	imataly	2 feet higher in	a elevet	ion alor	a brook	r in vegetation					
Janipie	ocated applox	шасыу	Z icci iligilel II	ı cıcval	ion alui	ig biear	in vegetation					

Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/28/21
Applicant/Owner: EDF Renewables	State:	MN	Sampling Point:	WB-105 Wet
Investigator(s): David Kuhlmann	Sect	tion, Township	p, Range: Section 35	T107N R16W
Landform (hillslope, terrace, etc.): swale	Local	relief (concav	ve, convex, none):	concave
Slope (%): 2 to 5 Lat: 44.032416	Long:	-92.7030		0 83 UTM 15N
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent sl	opes	VWI (Classification: F	PEM1B
Are climatic/hydrologic conditions of the site typical for this	time of the year?	Y (I	f no, explain in remarks)	
Are vegetation, soil , or hydrology _	significant	ly disturbed?	Are "normal circum	istances"
Are vegetation, soil, or hydrology	naturally p	roblematic?		present? Yes
SUMMARY OF FINDINGS			(If needed, explain any ans	wers in remarks.)
Hydrophytic vegetation present? Y				
Hydric soil present?	Is the	sampled area	a within a wetland?	Υ
Indicators of wetland hydrology present?	f yes, o	ptional wetlar	nd site ID:	
Remarks: (Explain alternative procedures here or in a sepa	rate report.)			
,				
	wetland swal	е		
VEGETATION Use scientific names of plants.				
·	solute Dominan	Indicator	Dominance Test Workshe	eet
	Cover t Species	Staus	Number of Dominant Species	
1			that are OBL, FACW, or FAC	
2			Total Number of Dominan	
3			Species Across all Strata	: <u>1</u> (B)
4			Percent of Dominant Species	
5	0 = Total Cove		that are OBL, FACW, or FAC	: 100.00% (A/B)
Sapling/Shrub stratum (Plot size: 15)		er	Prevalence Index Worksh	ieet
1			Total % Cover of:	
2			OBL species 0 x 1	I = 0
3			FACW species 100 x 2	2 = 200
4			FAC species 0 x 3	
5			FACU species 0 x 4	
	0 = Total Cove	er	UPL species 0 x 5	
Herb stratum (Plot size: 5)		54 OW	Column totals 100 (A)	· — ` ·
<u>·</u>	00 Y	FACW	Prevalence Index = B/A =	2.00
2			Hydrophytic Vegetation Ir	ndicators:
			Rapid test for hydrophy	
5			X Dominance test is >50°	•
6			X Prevalence index is ≤3.	.0*
7			Morphogical adaptation	ıs* (provide
8			supporting data in Rem	arks or on a
9			separate sheet)	
10	00 = Total Cove		Problematic hydrophyti (explain)	c vegetation*
Woody vine stratum (Plot size: 30)		≓I		
1			*Indicators of hydric soil and we present, unless disturbe	
2			Hydrophytic	· ·
	0 = Total Cove	er	vegetation	
			present? Y	_
Remarks: (Include photo numbers here or on a separate sh	ieet)			

SOIL Sampling Point: WB-105 Wet

Profile Des	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Red	dox Feat	<u>ures</u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-14	10YR 2/1	95	10YR 3/4	5	С	М	clay		
24-30	10YR 4/2	90	10YR 5/8	10	С	М	clay		
					<u> </u>				
*Typo: C = 0	Concentration D :	– Doploti	on PM - Poduce	d Matrix	MS - N	lacked S	and Crains **Locati	n: DL - Poro Lining M - Matrix	
		= Depleti	on, RM = Reduce	ed Matrix	, IVIS = IV	iasked S		on: PL = Pore Lining, M = Matrix lematic Hydric Soils:	
_	oil Indicators:		Con	dy Clay	ad Matrix	(04)		-	
	tisol (A1)			dy Gleye		(54)	Dark Surface (S	edox (A16) (LRR K, L, R)	
	tic Epipedon (A2)			dy Redo				e Masses (F12) (LRR K, L, R)	
	ck Histic (A3)	4)		pped Ma	. ,	-I /E4\		. , , , , , , , , , , , , , , , , , , ,	
	lrogen Sulfide (A4	•		my Muck	-			ark Surface (TF12)	
	atified Layers (A5))		my Gley			Other (explain in	remarks)	
	m Muck (A10)	Curfoss		oleted Ma	. ,				
	oleted Below Dark		· · —	lox Dark			** ** * ** **		
	ck Dark Surface (•		oleted Da		. ,		rophytic vegetation and weltand	
	ndy Mucky Minera	. ,		lox Depr	essions ((F8)	nyarology must	be present, unless disturbed or	
5 cr	n Mucky Peat or	Peat (53)					problematic	
	Layer (if observe	ed):							
Type:					_		Hydric soil prese	nt?Y	
Depth (inche	es):				- -				
Remarks:									
HYDROLO	OGY								
	drology Indicato	rs.							
_			required; check	all that a	nnlu)		0	dik (i-i f ki d)	
		or one is	required; check a			40\		dicators (minimum of two required)	
	Water (A1)				Fauna (B			Soil Cracks (B6)	
	iter Table (A2)				uatic Plar			e Patterns (B10)	
Saturation	, ,					Odor (C	· ·	ason Water Table (C2) n Burrows (C8)	
	arks (B1) nt Deposits (B2)			(C3)	Rnizosp	neres on		on Visible on Aerial Imagery (C9)	
	oosits (B3)				e of Redi	uced Iron		or Stressed Plants (D1)	
	at or Crust (B4)			•				rphic Position (D2)	
	osits (B5)			(C6)	ion Redu	iction in i		eutral Test (D5)	
	on Visible on Aeria	ıl İmaner	, (B7)	. ' '	ck Surfac	o (C7)	A PAC-NE	edital Test (D5)	
	Vegetated Conca		· · ·	•	or Well Da				
	tained Leaves (B9					Remarks	١		
	,	,		Other (L	.xpiaiii iii	Itemants	<i>'</i>		
Field Obser		Vaa	Na	V	Donth /	nahaa\.			
Surface wate	•	Yes	No	X	Depth (i		_{In}	dicators of watland	
Water table Saturation p		Yes Yes	No No	X	Depth (i Depth (i			dicators of wetland ydrology present?	
	pillary fringe)	res	NO		Deptii (i	nches).	"	ydrology present? Y	
					h-4				
Describe red	corded data (strea	am gauge	e, monitoring well	, aeriai p	notos, pi	revious ii	nspections), if available:		
Remarks:									
ixemarks.									
Ī									

Applicant/Owner: EDF Renewables State: MN Sampling Point: WB-106 Up Investigator(s): David Kuhlmann Section, Township, Range: Section 35 T107N R16W Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 2 to 5 Lat: 44.02973 Long: -92.707458 Datum: NAD 83 UTM 15N Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent slopes Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks) Are vegetation X , soil , or hydrology significantly disturbed? Are "normal circumstances" Are vegetation _ , soil , or hydrology naturally problematic? SUMMARY OF FINDINGS Hydrophytic vegetation present? N
Landform (hillslope, terrace, etc.): hillslope
Landform (hillslope, terrace, etc.): hillslope
Slope (%): 2 to 5
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent slopes Are climatic/hydrologic conditions of the site typical for this time of the year? Are vegetation X , soil , or hydrology significantly disturbed? Are "normal circumstances" Are vegetation , soil , or hydrology naturally problematic? SUMMARY OF FINDINGS (If needed, explain any answers in remarks.) Hydrophytic vegetation present? N Hydric soil present? Y Is the sampled area within a wetland? N Indicators of wetland hydrology present? N I yes, optional wetland site ID:
Are vegetation X , soil , or hydrology significantly disturbed? Are "normal circumstances" Are vegetation , soil , or hydrology naturally problematic? present? Yes SUMMARY OF FINDINGS (If needed, explain any answers in remarks.) Hydrophytic vegetation present? N
Are vegetation soil or hydrology naturally problematic? present? Yes SUMMARY OF FINDINGS (If needed, explain any answers in remarks.) Hydrophytic vegetation present? N Hydric soil present? Y Is the sampled area within a wetland? N Indicators of wetland hydrology present? N f yes, optional wetland site ID:
Are vegetation soil or hydrology naturally problematic? present? Yes SUMMARY OF FINDINGS (If needed, explain any answers in remarks.) Hydrophytic vegetation present? N Hydric soil present? Y Indicators of wetland hydrology present? N Indicators of wetland hydrology present?
Hydrophytic vegetation present? Hydric soil present? Indicators of wetland hydrology present? N Is the sampled area within a wetland? N f yes, optional wetland site ID:
Hydric soil present? Indicators of wetland hydrology present? Is the sampled area within a wetland? N f yes, optional wetland site ID:
Indicators of wetland hydrology present? N f yes, optional wetland site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
tilled ag field outside of wetland swale
VEGETATION Use scientific names of plants.
Absolute Dominan Indicator Dominance Test Worksheet
Tree Stratum (Plot size: 30) % Cover t Species Staus Number of Dominant Species
that are OBL, FACW, or FAC: 0 (A)
2 Total Number of Dominant
Species Across all Strata: 0 (B)
Percent of Dominant Species
5 that are OBL, FACW, or FAC: 0.00% (A/B) 0 = Total Cover
Sapling/Shrub stratum (Plot size: 15) Prevalence Index Worksheet
1 Total % Cover of:
2 OBL species 0 x1 = 0
3 FACW species 0 x 2 = 0
4 FAC species 0 x 3 = 0
5 FACU species 0 x 4 = 0
Herb stratum (Plot size: 5) Column totals 0 (A) 0 (B)
1 Prevalence Index = B/A =
2 Hydrophytic Vegetation Indicators:
4 Rapid test for hydrophytic vegetation
5 Dominance test is >50%
6 Prevalence index is ≤3.0*
7 Morphogical adaptations* (provide
8 supporting data in Remarks or on a
9 separate sheet)
10 Problematic hydrophytic vegetation* 0 = Total Cover (explain)
Woody vine stratum (Plot size: 30)
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
2 Hydrophytic
0 = Total Cover vegetation
present? N
Remarks: (Include photo numbers here or on a separate sheet)

SOIL Sampling Point: WB-106 Up

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docui	ment the	indicate	or or confirm the abs	ence of indicators.)				
Depth	<u>Matrix</u>		Red	lox Featı	<u>ures</u>							
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks				
0-12	10YR 2/1	100					clay					
12-18	10YR 2/1	95	10YR 5/8	5	С	М	clay					
18-24	10YR 4/2	90	10YR 5/8	10	С	M						
10-24	10111 4/2	90	1011376	10		IVI	clay	_				
*T C = 6)	D1-4	DM D d	-1 1 1 -4	MC - M	111 0		ation DI - Dans Lining M - Matrix				
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
-			0	-l Ol	I NA 4 i	(04)		<u> </u>				
	isol (A1)				ed Matrix	(54)		Redox (A16) (LRR K, L, R)				
	ic Epipedon (A2)			dy Redo				e (S7) (LRR K, L) ese Masses (F12) (LRR K, L, R)				
	ck Histic (A3)			oped Ma	. ,	1 (54)						
	lrogen Sulfide (A4				ky Minera			Dark Surface (TF12)				
	atified Layers (A5))			ed Matrix	. ,	Other (explai	n in remarks)				
	n Muck (A10)	0 (atrix (F3)			1				
	leted Below Dark				Surface	. ,						
	ck Dark Surface (•			ırk Surfa	. ,		nydrophytic vegetation and weltand				
	dy Mucky Minera	. ,		lox Depre	essions ((F8)	hydrology mu	st be present, unless disturbed or				
5 cr	n Mucky Peat or	Peat (S3)					problematic				
Restrictive	Layer (if observe	ed):										
Type:							Hydric soil pre	sent? Y				
Depth (inche	Depth (inches):											
Remarks:												
TOTALIO.												
HYDROLO	nev .											
	drology Indicate	rei						7				
	0,											
		of one is	required; check a			40)	_	Indicators (minimum of two required)				
	Water (A1)				Fauna (B	,		ace Soil Cracks (B6)				
	iter Table (A2)				uatic Plar			nage Patterns (B10)				
Saturation	. ,					Odor (C1	· ·	Season Water Table (C2)				
	arks (B1)				Rhizosp	heres on		fish Burrows (C8)				
	nt Deposits (B2)			(C3)	o of Dodu	rood Iron		ration Visible on Aerial Imagery (C9)				
	oosits (B3)			i i		uced Iron		ted or Stressed Plants (D1) morphic Position (D2)				
	t or Crust (B4) osits (B5)			(C6)	ron Redu	iction in 1		-Neutral Test (D5)				
	on Visible on Aeria	ıl İmanen	, (B7)	i	ck Surfac	o (C7)	FAO	-Neutral Test (D3)				
	Vegetated Conca				r Well Da							
	tained Leaves (B9			_		Remarks	1					
_	•	,		Other (E	хріант ін	TCHIAINS	<u>'</u>					
Field Obser		Voo	No	~	Donth /i	nohoo\:						
Surface wate	-	Yes	No	X	Depth (i	• .		Indicators of wetland				
Water table Saturation p	•	Yes Yes	No No	X	Depth (i Depth (i	•		hydrology present?				
-	pillary fringe)	163			Pehiii (i	nones).		injurology present:				
		.m. ~~:::	nonitaria	oonie!	hotos ::	rovieus i	apportions) if ===:!-!!					
Describe red	corded data (strea	ıın gauge	e, monitoring well	, aeriai p	notos, pr	evious ir	spections), if available) .				
Remarks:												
		metel:	O foot blade !		ion							
Sample I	ocated approx	ппатегу	2 feet higher in	ı elevat	ION							

Project/Site Byron Solar	City/C	County:	Dodge	Sampling Dat	e: 4/28/21
Applicant/Owner: EDF Renewables		State:	MN		-
Investigator(s): David Kuhlmann			on, Township		n 35 T107N R16W
Landform (hillslope, terrace, etc.): hillslope	e	Local re	elief (concav	e, convex, none):	convex
Slope (%): 0 to 2 Lat: 44.029786		Long:			NAD 83 UTM 15N
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent	t slopes	~ <u> </u>		Classification:	PEM1B
Are climatic/hydrologic conditions of the site typical for the		f the year?		f no, explain in remarks)
Are vegetation , soil , or hydrolog				Are "normal o	ircumstances"
Are vegetation , soil , or hydrolog		naturally pro		, no	present? Yes
SUMMARY OF FINDINGS				(If needed, explain an	y answers in remarks.)
Hydrophytic vegetation present?					
Hydric soil present? Y		Is the sa	ampled area	a within a wetland?	Y
Indicators of wetland hydrology present? Y		f yes, op	tional wetlan	d site ID:	
Remarks: (Explain alternative procedures here or in a se	eparate re	port.)		<u> </u>	<u> </u>
		. ,			
	wet	tland swale)		
VEGETATION Use scientific names of plants.					
	Absolute	Dominan	Indicator	Dominance Test Wo	rksheet
<u>Tree Stratum</u> (Plot size: 30)	% Cover	t Species	Staus	Number of Dominant S	pecies
1				that are OBL, FACW, o	r FAC:1 (A)
2				Total Number of Do	
3				Species Across all	``
4				Percent of Dominant S	•
	0 =	= Total Cover		that are Obl., FACVV, o	r FAC: 100.00% (A/B)
Sapling/Shrub stratum (Plot size: 15)		- 10101 0010.		Prevalence Index Wo	orksheet
1				Total % Cover of:	
2				OBL species 0	x 1 =0
3				· —	x 2 = 200
4				FAC species 0	x 3 =0
5	0 =	= Total Cover		FACU species 0	
Herb stratum (Plot size: 5)		= TOTAL COVE		UPL species 0 Column totals 100	
1 Phalaris arundinacea	100	Υ	FACW	Prevalence Index = B	
2	100		FACW	Prevalence index – b	/A - 2.00
3				Hydrophytic Vegetat	ion Indicators:
4					rophytic vegetation
5				X Dominance test is	s >50%
6				X Prevalence index	is ≤3.0*
7				Morphogical adap	
8				supporting data in	Remarks or on a
9				separate sheet)	anhatia varatatian*
	100 =	= Total Cover		(explain)	phytic vegetation*
Woody vine stratum (Plot size: 30)					and wetland hydrology must be
1				_	isturbed or problematic
2				Hydrophytic	
	0 =	= Total Cover		vegetation	V
				present?	<u> </u>
Remarks: (Include photo numbers here or on a separate	sheet)				

SOIL Sampling Point: WB-106 Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth	<u>Matrix</u>		Red	lox Featu	<u>ıres</u>							
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks				
0-12	10YR 2/1	100					clay					
12-18	10YR 2/1	95	10YR 5/8	5	С	М	clay					
							-					
18-24	10YR 4/2	90	10YR 5/8	10	С	М	clay					
± T 0 0	Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix											
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
-			0		1.84 . 6 . 5 .	(0.4)		-				
	isol (A1)			dy Gleye		(S4)		Redox (A16) (LRR K, L, R)				
	ic Epipedon (A2)			dy Redo	. ,			S7) (LRR K, L) se Masses (F12) (LRR K, L, R)				
	ck Histic (A3)			oped Ma	. ,	1 (54)						
	rogen Sulfide (A4	-		my Muck	-			Oark Surface (TF12)				
	tified Layers (A5))		my Gley			Other (explain	in remarks)				
	n Muck (A10)	· · · · · · · · ·		leted Ma	, ,			1				
	leted Below Dark		· · · · · · · · · · · · · · · · · · ·	lox Dark		. ,						
	k Dark Surface (•		leted Da		. ,		drophytic vegetation and weltand				
	dy Mucky Minera			lox Depre	essions ((F8)	hydrology must	be present, unless disturbed or				
5 cr	n Mucky Peat or	Peat (53)					problematic				
Restrictive	Layer (if observe	ed):										
Type:							Hydric soil pres	ent? Y				
Depth (inche	es):											
Remarks:												
HYDROLO)GY											
	drology Indicato	re.										
_			roquirod: obook	all that a	anlu)		0	- di t (i- i f t d)				
		or one is	required; check a			40\		ndicators (minimum of two required)				
	Water (A1) ter Table (A2)			Aquatic		nts (B14)		e Soil Cracks (B6) ge Patterns (B10)				
Saturation	` '			•		Odor (C1		eason Water Table (C2)				
	arks (B1)					-		sh Burrows (C8)				
	it Deposits (B2)			(C3)	Kilizosp	ilieles oil		tion Visible on Aerial Imagery (C9)				
	osits (B3)		-		e of Redu	uced Iron		d or Stressed Plants (D1)				
	t or Crust (B4)						. ,	orphic Position (D2)				
	osits (B5)			(C6)				leutral Test (D5)				
	on Visible on Aeria	l Imagery	/ (B7)	Thin Mu	ck Surfac	e (C7)		('')				
	Vegetated Conca			Gauge o								
Water-S	tained Leaves (B9)		Other (E	xplain in	Remarks)					
Field Obser	vations:											
Surface water		Yes	No	Χ	Depth (i	nches):						
Water table		Yes	No	Х	Depth (i	-	 ı	ndicators of wetland				
Saturation p		Yes	No	Х	Depth (i			hydrology present? Y				
(includes ca	oillary fringe)											
Describe rec	orded data (strea	ım gauge	e, monitoring well	, aerial p	hotos, pi	revious ir	nspections), if available:					
	•	- 3	-	•			•					
Remarks:												

Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/29/21
Applicant/Owner: EDF Renewables	State:	MN	Sampling Point:	WB-107 Up
Investigator(s): David Kuhlmann	Sec	tion, Townshi	p, Range: Section 2	T106N R16W
Landform (hillslope, terrace, etc.): hillslope	Local	relief (concav	/e, convex, none):	convex
Slope (%): 2 to 5 Lat: 44.009022	Long:	-92.6999		D 83 UTM 15N
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent si			Classification:	N/A
Are climatic/hydrologic conditions of the site typical for this	-		If no, explain in remarks)	
Are vegetation X , soil , or hydrology		tly disturbed?	Are "normal circun	netances"
Are vegetation , soil , or hydrology		oroblematic?	7 110 1101111ai 0 0 2	present? Yes
SUMMARY OF FINDINGS	<u> </u>		(If needed, explain any ans	swers in remarks.)
Hydrophytic vegetation present? N				
Hydric soil present? Y	Is the	sampled area	a within a wetland?	N
Indicators of wetland hydrology present?		ptional wetlar		
Remarks: (Explain alternative procedures here or in a sepa				
Remarks. (Explain alternative procedures here or in a sepa	irate report.)			
	tilled ag field	d		
VEGETATION Use scientific names of plants.		1 12	Daminanaa Toot Workob	4
	solute Dominan Cover t Species	Indicator Staus	Dominance Test Worksho	
1 1 (FIOU SIZE	JOVEL L'OPECICS	Olaus	Number of Dominant Specie that are OBL, FACW, or FAC	
			Total Number of Dominar	``
		· ——	Species Across all Strata	
4		· ——	Percent of Dominant Specie	
5			that are OBL, FACW, or FAC	
	0 = Total Cove	er		
Sapling/Shrub stratum (Plot size: 15)			Prevalence Index Worksh	neet
			Total % Cover of:	4
2		· ——	OBL species 0 x FACW species 0 x S	1 = <u>0</u> 2 = <u>0</u>
<u> </u>		·	· —	3 = 0
5			· —	4 = 0
	0 = Total Cove	er	· —	5 = 0
Herb stratum (Plot size: 5)			Column totals 0 (A	(B)
1			Prevalence Index = B/A =	
2				
3	<u> </u>		Hydrophytic Vegetation I	
4			Rapid test for hydrophy	
5			Dominance test is >50	
6			Prevalence index is ≤3	
8			Morphogical adaptation supporting data in Ren	
9			separate sheet)	IIdika di dii a
10		·	Problematic hydrophyt	ic vegetation*
	0 = Total Cove	er	(explain)	
Woody vine stratum (Plot size: 30)			*Indicators of hydric soil and we	etland hydrology must be
1			present, unless disturbe	
2		·	Hydrophytic	
	0 = Total Cove	er	vegetation present? N	
Demarka: (Include shote numbers here or on a congrete of	5-04\		p. 555	_
Remarks: (Include photo numbers here or on a separate sl	ieet)			

SOIL Sampling Point: WB-107 Up

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the ab	sence of indicators.)
Depth	<u>Matrix</u>		Red	dox Feat	<u>ures</u>			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-8	10YR 2/1	100					clay	
8-12	10YR 3/1	80	10YR 5/8	20	С	М	clay	
12-24	10YR 4/1	80	10YR 5/8	20	С	М		
12-24	10113 4/1	80	10113/6	20	<u> </u>	IVI	clay	
*T		_ D l - +:	DM D	-I N 4 4 1 - 1	MC - M	111 0		antiana Di - Dana Linina M - Matrix
		= Depleti	on, RM = Reduce	a Matrix	, IVIS = IV	lasked S		cation: PL = Pore Lining, M = Matrix
_	oil Indicators:		0	-l Ol	I NA 4 i	(04)		Problematic Hydric Soils:
	tisol (A1)				ed Matrix	(54)		e Redox (A16) (LRR K, L, R)
	tic Epipedon (A2)			dy Redo				e (S7) (LRR K, L) nese Masses (F12) (LRR K, L, R)
	ck Histic (A3)	4\		pped Ma	. ,	-I /E4\		
	lrogen Sulfide (A atified Layers (A5			-	ky Minera			w Dark Surface (TF12)
	• • •)			ed Matrix		Other (expla	ain in remarks)
	m Muck (A10)	Curtosa			atrix (F3)			ı
	oleted Below Dark				Surface	. ,		
	ck Dark Surface (•			ırk Surfa	. ,		hydrophytic vegetation and weltand
	ndy Mucky Minera	. ,		iox Depr	essions ((69)	nyarology m	ust be present, unless disturbed or
5 cr	n Mucky Peat or	Peat (53)					problematic
Restrictive	Layer (if observe	ed):						
Type:							Hydric soil pr	esent? Y
Depth (inche	es):				-			
Remarks:	·				-			
HYDROLO	ng Y							
	drology Indicate	re.						
	0,			-11 414			0 1	
		or one is	required; check a			40)		y Indicators (minimum of two required)
	Water (A1)				Fauna (B	•		face Soil Cracks (B6)
	iter Table (A2)				uatic Plar			inage Patterns (B10)
Saturation Mater M	larks (B1)					Odor (C1		-Season Water Table (C2)
	nt Deposits (B2)			(C3)	Rnizosp	neres on		yfish Burrows (C8)
	oosits (B3)				a of Radi	uced Iron		uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
	at or Crust (B4)							pmorphic Position (D2)
	osits (B5)			(C6)	ion ixeau	iction in i		C-Neutral Test (D5)
	on Visible on Aeria	al Imagen	/ (B7)		ck Surfac	e (C7)		5-Neutral Test (D5)
	Vegetated Conca				r Well Da	` '		
	tained Leaves (B9					Remarks)	
Field Obser	•	,			., р.с		<u>'</u>	
Surface wat		Yes	No	Χ	Depth (i	nchee).		
Water table	•	Yes	No	$\frac{\lambda}{X}$	Depth (i	* .	—— I	Indicators of wetland
Saturation p		Yes	No	$\frac{\hat{x}}{x}$	Depth (i	,		hydrology present? N
-	pillary fringe)	. 55			V		 -	
		m dalla	monitoring well	aerial n	hotos n	revious in	enections) if availab	le.
Describe 160	orueu uata (Sifea	arri yauy	s, monitoring well	, a c πaπ β	notos, pr	evious II	spections), if availab	i c .
Remarks:								
	field, not avoid	ed						
illiou ag	nora, not avoid	Ju						
•								

Project/Site Byron Solar	City/C	County:	Dodge	Sampling Date:	4/29/21
Applicant/Owner: EDF Renewables	•	State:	MN		
Investigator(s): David Kuhlmann			on, Township		2 T106N R16W
Landform (hillslope, terrace, etc.): swale			•	e, convex, none):	concave
Slope (%): 0 to 2 Lat: 44.008942		Long:	-92.69997		NAD 83 UTM 15N
Soil Map Unit Name Tripoli silty clay loam, 0 to 2 percent s	slopes			Classification:	N/A
Are climatic/hydrologic conditions of the site typical for this		the year?	Y (I:	f no, explain in remarks)	
Are vegetation X , soil , or hydrology		significantly		Are "normal circ	eumstances"
Are vegetation , soil , or hydrology		naturally pro		,	present? Yes
SUMMARY OF FINDINGS				(If needed, explain any a	answers in remarks.)
Hydrophytic vegetation present? Y					
Hydric soil present?		Is the sa	ampled area	within a wetland?	Y
Indicators of wetland hydrology present?		f yes, opt	tional wetlan	d site ID:	
Remarks: (Explain alternative procedures here or in a sepa	arate rep	port.)			
	·	,	~		
a	voided	area of ag	field		
VEGETATION Use scientific names of plants.					
·	solute	Dominan	Indicator	Dominance Test Work	sheet
Tree Stratum (Plot size: 30) %	Cover	t Species	Staus	Number of Dominant Spe	
1				that are OBL, FACW, or F	AC: 0 (A)
2				Total Number of Domi	
3				Species Across all Str	 ``
				Percent of Dominant Spe that are OBL, FACW, or F	
	0 =	Total Cover		triat are obe, i riott, s	AO. 0.0070 (7.02)
Sapling/Shrub stratum (Plot size: 15)				Prevalence Index Worl	ksheet
1				Total % Cover of:	
2				·	x 1 = 0
3				· —	x 2 = 0
				FAC species 0 FACU species 0	$\begin{array}{c} x 3 = 0 \\ x 4 = 0 \end{array}$
	0 =	Total Cover		UPL species 0	x = 5 = 5
Herb stratum (Plot size: 5)	<u> </u>	1010.		Column totals 0	(A) 0 (B)
1				Prevalence Index = B/A	· · · · — · · ·
2				•	
3				Hydrophytic Vegetatio	
4				Rapid test for hydro	. , .
5				Dominance test is >	
0				Prevalence index is	
8				Morphogical adapta supporting data in F	
9				separate sheet)	ternants of on a
10				Problematic hydropl	hytic vegetation*
	0 =	Total Cover		X (explain)	, ,
Woody vine stratum (Plot size: 30)				*Indicators of hydric soil and	I wetland hydrology must be
1				present, unless distr	urbed or problematic
		T-4-1 O		Hydrophytic vegetation	
	0 =	:Total Cover		present?	Y
Remarks: (Include photo numbers here or on a separate s	sheet)				
avoided area of ag field	,				

SOIL Sampling Point: WB-107 Wet

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm	the absence	e of indicators.)
Depth	Matrix			dox Feat					,
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Textu	re	Remarks
0-6	10YR 2/1	100					clay		
6-12	10YR 3/1	80	10YR 5/8	20	С	М	clay		
12-24	10YR 4/1	80	10YR 5/8	20	С	М	clay		
				<u> </u>				444	
		= Depleti	on, RM = Reduce	ed Matrix	, MS = N	lasked S			n: PL = Pore Lining, M = Matrix
_	il Indicators:		•			(0.4)			ematic Hydric Soils:
	tisol (A1)				ed Matrix	(S4)			dox (A16) (LRR K, L, R)
	tic Epipedon (A2)			dy Redo					7) (LRR K, L)
	ck Histic (A3)	4.		pped Ma	. ,	. (= 4)			Masses (F12) (LRR K, L, R)
	lrogen Sulfide (A			-	ky Minera				rk Surface (TF12)
	atified Layers (A5)			ed Matrix	. ,	Other	(explain in	remarks)
	n Muck (A10)	0 (atrix (F3)				,
	leted Below Dark				Surface	` '			
	ck Dark Surface (•			ark Surfa				ophytic vegetation and weltand
	ndy Mucky Minera			lox Depr	essions ((F8)	hydrol	ogy must b	e present, unless disturbed or
5 cr	n Mucky Peat or	Peat (S3)						problematic
Restrictive	Layer (if observe	ed):							
Type:					_		Hydric s	soil presen	t?Y
Depth (inche	es):				_				
Remarks:									
HYDROLO	OGY								
	drology Indicato	ors:							
_			required; check a	all that a	nnly)		Sec	condary Ind	icators (minimum of two required)
	Water (A1)	OI OIIC IS	required, check a		рргу) Fauna (B	13)	360		Soil Cracks (B6)
	iter Table (A2)				uatic Plar	,	_		e Patterns (B10)
Saturation						Odor (C1	<u> </u>		son Water Table (C2)
	arks (B1)					-	Living Roots		Burrows (C8)
	nt Deposits (B2)			(C3)					on Visible on Aerial Imagery (C9)
	posits (B3)				e of Redu	uced Iron			or Stressed Plants (D1)
	at or Crust (B4)			•				_	ohic Position (D2)
	osits (B5)			(C6)			_	FAC-Nei	utral Test (D5)
	on Visible on Aeria	al Imagery	y (B7)		ck Surfac	e (C7)	_		,
Sparsely	Vegetated Conca	ve Surfa	ce (B8)	•	or Well Da				
Water-S	tained Leaves (B9)		Other (E	xplain in	Remarks)		
Field Obser	vations:			•					
Surface wat		Yes	No	X	Depth (i	nches):			
Water table	•	Yes	No	X	Depth (i	,		Inc	licators of wetland
Saturation p	resent?	Yes	No	X	Depth (i	nches):		hy	/drology present? Y
(includes ca	pillary fringe)				-				
Describe red	corded data (strea	am gauge	e, monitoring well	, aerial p	hotos, pr	revious ir	nspections), if a	vailable:	
	•		_	•					
Remarks:									
avoided	area of ag field								

Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/29/21
Applicant/Owner: EDF Renewables	State:	MN	Sampling Point:	WB-108 Up
Investigator(s): David Kuhlmann	Sect	tion, Township	o, Range: Section 11	T106N R16W
Landform (hillslope, terrace, etc.): hillslope	Local	relief (concav	re, convex, none):	convex
Slope (%): 2 to 5 Lat: 44.001717	Long:	-92.70762		D 83 UTM 15N
Soil Map Unit Name Marquis silt loam, 1 to 3 percent slop		NWI (Classification:	N/A
Are climatic/hydrologic conditions of the site typical for thi	s time of the year?	<u>Y</u> (I	f no, explain in remarks)	
Are vegetation X , soil , or hydrology	significant	tly disturbed?	Are "normal circum	nstances"
Are vegetation , soil , or hydrology	naturally p	oroblematic?		present? Yes
SUMMARY OF FINDINGS			(If needed, explain any ans	wers in remarks.)
Hydrophytic vegetation present? N				
Hydric soil present? Y	Is the	sampled area	a within a wetland?	N
Indicators of wetland hydrology present?	f yes, o	ptional wetlan	id site ID:	
Remarks: (Explain alternative procedures here or in a sep	L parate report.)			
Tromano. (Explain anomalivo processis or noto c 2 00)				
	tilled ag field	t		
VEGETATION Use scientific names of plants.				
·	osolute Dominan	Indicator	Dominance Test Worksho	eet
	Cover t Species	Staus	Number of Dominant Species	
1			that are OBL, FACW, or FAC	
2			Total Number of Dominan	
3			Species Across all Strata	a: (B)
4			Percent of Dominant Species	
5	- Total Cove		that are OBL, FACW, or FAC	C: <u>0.00%</u> (A/B)
Sapling/Shrub stratum (Plot size: 15)	0 = Total Cove	er	Prevalence Index Worksh	
1			Total % Cover of:	ieei
			OBL species 0 x 1	1 = 0
3				2 = 0
4			FAC species 0 x 3	3 = 0
5			·	4 = 0
	0 = Total Cove	er	· —	5 = 0
Herb stratum (Plot size: 5			Column totals 0 (A	(B)
1			Prevalence Index = B/A =	
2			United Standards In I	
3			Hydrophytic Vegetation In Rapid test for hydrophy	
		· ——	Dominance test is >50°	, ,
6		·	Prevalence index is ≤3	
7			Morphogical adaptation	
8			supporting data in Rem	
9			separate sheet)	
10			Problematic hydrophyti	ic vegetation*
	0 = Total Cove	er	(explain)	
Woody vine stratum (Plot size: 30)			*Indicators of hydric soil and we present, unless disturbe	
			Hydrophytic	a or problemate
	0 = Total Cove	er	vegetation	
			present? N	-
Remarks: (Include photo numbers here or on a separate s	sheet)			
avoided area of ag field				ļ

SOIL Sampling Point: WB-108 Up

Profile Desc	cription: (Descri	be to th	e depth needed	to docui	ment the	indicat	or or confirm the	absence of ind	icators.)
Depth	Matrix		Red	lox Featı	<u>ures</u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture		Remarks
0-10	10YR 2/1	100					clay		
10-24	10YR 4/1	80	10YR 5/8	20	С	М	clay		
10-24	10111 4/1	00	10111 3/0	20		IVI	Clay		
± T 0 6		.	D14 D 1						
	Concentration, D	= Depleti	on, RM = Reduce	ed Matrix	, MS = N	lasked S			Pore Lining, M = Matrix
-	il Indicators:		0		1.84 . 6 . 5 .	(0.4)		or Problematic I	•
	isol (A1)				ed Matrix	(S4)		rairie Redox (A16	
	ic Epipedon (A2)			dy Redo	. ,			face (S7) (LRR l	K, L) (F12) (LRR K, L, R)
	ck Histic (A3)			oped Ma	. ,	1 (54)		•	. , , , , , , , , , , , , , , , , , , ,
	rogen Sulfide (A4	•		-	ky Minera			allow Dark Surfac	
	tified Layers (A5))			ed Matrix		Other (ex	xplain in remarks)
	n Muck (A10)	· · · · · · · · ·			atrix (F3)				Ī
	leted Below Dark		· · · · · · · · · · · · · · · · · · ·		Surface	. ,			
	ck Dark Surface (•			ırk Surfa	. ,			regetation and weltand
	dy Mucky Minera			iox Depre	essions ((F8)	hydrology		t, unless disturbed or
5 cr	n Mucky Peat or	Peat (53)					problem	alic
Restrictive	Layer (if observe	ed):							
Type:					_		Hydric soil	present?	<u> </u>
Depth (inche	es):				•				
Remarks:									
HYDROLO	OGY								
	drology Indicato	rs.							
_	cators (minimum		required: check	all that a	only)		Sacan	dan Indicators (minimum of two required)
	Water (A1)	oi one is	required, check a		рргу) Fauna (B	12\		Surface Soil Crac	
	ter Table (A2)				гаипа (в uatic Plar			Drainage Patterns	` '
Saturation	` '					Odor (C1		Dry-Season Wate	` ,
	arks (B1)					•	·	Crayfish Burrows	
	it Deposits (B2)			(C3)	i i ttili203p	neres on		•	on Aerial Imagery (C9)
	osits (B3)				e of Redu	ced Iron		Stunted or Stress	
	t or Crust (B4)			i i			· · · · —	Geomorphic Posi	
	osits (B5)			(C6)				FAC-Neutral Test	, ,
	on Visible on Aeria	l Imagery	/ (B7)	Thin Mu	ck Surfac	e (C7)			` ,
Sparsely	Vegetated Conca	ve Surfa	ce (B8)		r Well Da				
Water-S	tained Leaves (B9)		Other (E	xplain in	Remarks)		
Field Obser	vations:								
Surface water		Yes	No	X	Depth (i	nches):			
Water table		Yes	No	Х	Depth (i			Indicators	of wetland
Saturation p	resent?	Yes	No	Х	Depth (i			hydrology	present? N
(includes ca	pillary fringe)								
Describe rec	orded data (strea	ım gauge	e, monitoring well	, aerial p	hotos, pr	evious ir	nspections), if ava	ilable:	
	•	- 3	-	•			• *		
Remarks:									
sample lo	ocated approxi	mately	2 feet higher in	elevati	on than	wetlan	d sample point		

Project/Site Byron Solar	City/County:	Dodge	Sampling Date:	4/29/21
Applicant/Owner: EDF Renewables	State:	MN	Sampling Point:	WB-108 Wet
Investigator(s): David Kuhlmann	Sect	ion, Township	o, Range: Section 11 T1	06N R16W
Landform (hillslope, terrace, etc.): depression	Local	relief (concav	re, convex, none): co	oncave
Slope (%): 0 to 2 Lat: 44.001649	Long:	-92.70765		3 UTM 15N
Soil Map Unit Name Marquis silt loam, 1 to 3 percent slopes		NWI C	Classification: N	I/A
Are climatic/hydrologic conditions of the site typical for this til	me of the year?	Y (I	f no, explain in remarks)	
Are vegetation X, soil , or hydrology	significantl	y disturbed?	Are "normal circumsta	ances"
Are vegetation, soil, or hydrology	naturally p	roblematic?		esent? Yes
SUMMARY OF FINDINGS			(If needed, explain any answe	ers in remarks.)
Hydrophytic vegetation present? Y				
Hydric soil present?	Is the s	sampled area	a within a wetland?	Υ
Indicators of wetland hydrology present?	f yes, or	ptional wetlan	d site ID:	
Remarks: (Explain alternative procedures here or in a separa	ate report.)			_
sloped wetland that tapers out on side of slope as		cave postio	ning: tilled field with distinct	t surficial color
olopou monaria mat aporo out en ener en ener en ener	change of so	•	rinig, anda nota man aleani.	. Our notal co.c.
VEGETATION Use scientific names of plants.				
Absol	lute Dominan	Indicator	Dominance Test Worksheet	
Tree Stratum (Plot size: 30) % Co		Staus	Number of Dominant Species	
1			that are OBL, FACW, or FAC:	0 (A)
2			Total Number of Dominant	
3			Species Across all Strata:	0 (B)
4			Percent of Dominant Species that are OBL, FACW, or FAC:	0.00% (A/B)
5	= Total Cove		that are ODL, FACVV, or FAC.	0.00% (A/D)
Sapling/Shrub stratum (Plot size: 15)		" 	Prevalence Index Workshee	 et
1			Total % Cover of:	
2			OBL species 0 x 1 =	0
3			FACW species 0 x 2 =	
4			FAC species 0 x 3 =	
5	- Total Cove		FACU species 0 x 4 =	
Herb stratum (Plot size: 5)	= Total Cove	;r	UPL species 0 x 5 = Column totals 0 (A)	0 0 (B)
TEID Stratum (Flot Size			` ' /	(D)
2			Prevalence Index = B/A =	
3			Hydrophytic Vegetation Indi	icators:
4			Rapid test for hydrophytic	
5			Dominance test is >50%	Ü
6			Prevalence index is ≤3.0*	
7			Morphogical adaptations*	
8			supporting data in Remark	ks or on a
9			separate sheet)	4 4 4
10	= Total Cove		Problematic hydrophytic v X (explain)	egetation ⁻
Woody vine stratum (Plot size: 30)		1		11 I I more more than
1			*Indicators of hydric soil and wetlar present, unless disturbed o	
2			Hydrophytic	
0	= Total Cove	;r	vegetation	
			present? Y	
Remarks: (Include photo numbers here or on a separate she	et)			
avoided area of ag field				

SOIL Sampling Point: WB-108 Wet

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm the ab	sence of indicators.)
Depth	Matrix		Red	dox Feat	<u>ures</u>			·
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-24	10YR 4/2	80	10YR 5/8	20	С	М	clay	
± T 0 0	<u> </u>	.			140		10 . 44	
	Concentration, D	= Depleti	on, RM = Reduce	ed Matrix	, MS = N	lasked S		cation: PL = Pore Lining, M = Matrix
-	il Indicators:		0			(0.4)		Problematic Hydric Soils:
	tisol (A1)				ed Matrix	(S4)		e Redox (A16) (LRR K, L, R)
	tic Epipedon (A2)			dy Redo	. ,			e (S7) (LRR K, L)
	ck Histic (A3)			pped Ma	, ,	. (= 4)		nese Masses (F12) (LRR K, L, R)
	lrogen Sulfide (A4				ky Minera			w Dark Surface (TF12)
	atified Layers (A5))			ed Matrix	. ,	Other (expla	ain in remarks)
	n Muck (A10)				atrix (F3)			·
	oleted Below Dark		` '		Surface	` '		
	ck Dark Surface (•			rk Surfa			hydrophytic vegetation and weltand
	ndy Mucky Minera	. ,		lox Depr	essions ((F8)	hydrology m	ust be present, unless disturbed or
5 cr	n Mucky Peat or	Peat (S3)					problematic
Restrictive	Layer (if observe	ed):						
Type:							Hydric soil pr	esent? Y
Depth (inche	es):				-			
Remarks:								
rtemarks.								
HYDROLO	nev .							
	drology Indicate	re.						
	0,		wa wujiwa du abaadi.	all that a	l. ()		0	
	cators (minimum	or one is	requirea; cneck			40)		y Indicators (minimum of two required)
	Water (A1)				Fauna (B	•		face Soil Cracks (B6)
	iter Table (A2)				uatic Plar			inage Patterns (B10)
Saturatio	on (A3) larks (B1)					Odor (C1	· ·	-Season Water Table (C2) yfish Burrows (C8)
	` '			(C3)	Rnizosp	neres on	3	uration Visible on Aerial Imagery (C9)
	nt Deposits (B2)				o of Podu	lood Iron		
	oosits (B3) at or Crust (B4)					uced Iron		nted or Stressed Plants (D1) omorphic Position (D2)
	osits (B5)			(C6)	ion Redu	icuon III I		C-Neutral Test (D5)
	on Visible on Aeria	ıl İmanen	(B7)		ck Surfac	e (C7)		5-Neutral Test (D5)
	Vegetated Conca				or Well Da	. ,		
	tained Leaves (B9					Remarks)	
	,	,			жрічін ін	rtomanto	, 	
Field Obser Surface water		Yes	No	Х	Depth (i	nchee).		
Water table	•	Yes	No	$\frac{\lambda}{X}$	Depth (i	-		Indicators of wetland
Saturation p	•	Yes	No	$\frac{\hat{x}}{x}$	Depth (i	,		hydrology present?
-	pillary fringe)	103			- Dobui (i	. 101 103 <i>j</i> .		
		m goue	monitoring well	aerial a	hotos n	revieus ir	enections) if availab	lo:
Describe 160	orueu uata (sifea	ını yauge	s, monitoring well	, a c πaι β	ποιος, ρι	evious II	nspections), if availab	ne. I
Remarks:								
. tomanto.								

Project/Site: Byron Solar		City/County: Dodg	ge Sampling Date: 2020-10-2
Applicant/Owner: EDF Renewables			State: Minnesota Sampling Point: NW-01
Investigator(s): David Kuhlmann		Section, Township,	Range: Section 13, T106N, R16W
Landform (hillslope, terrace, etc.): Upland, Swa			lief (concave, convex, none): Concave
Slope (%): 2-5 Lat: 43.9827881		Long: -92.6785	142 Datum: NAD 83
Soil Map Unit Name: Clyde-Floyd complex,	1 to 4 percent sl	lopes (M518B)	NWI classification: None
Are climatic / hydrologic conditions on the site typic	al for this time of ye	ar? Yes N	
Are Vegetation, Soil, or Hydrology			are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			f needed, explain any answers in Remarks.)
			nt locations, transects, important features, et
Hydrophytic Vegetation Present? Yes	No_		
	No V	Is the Samp	
Wetland Hydrology Present? Yes	No	within a We	tland? Yes No
Remarks:			
VEGETATION – Use scientific names of	plants.		
30 ft r	Absolute		
Tree Stratum (Plot size: 30 ft r)		Species? Statu	Number of Dominant Species
1			That Are OBL, FACW, or FAC: 0 (A)
			Total Number of Dominant Species Across All Strata: 2 (B)
3			Species Across All Strata: 2 (B)
4 5			Percent of Dominant Species
		= Total Cover	That Are OBL, FACW, or FAC: 0 (A/B
Sapling/Shrub Stratum (Plot size 15 ft r		- Total Covo	Prevalence Index worksheet:
1)			Total % Cover of: Multiply by:
2			OBL species 0 x 1 = 0
3.			FACW species 0 x 2 = 0
4,			FAC species 0 x 3 = 0
5			FACU species 105 x 4 = 420
Herb Stratum (Plot size: 5 ft r)		= Total Cover	UPL species 0 x 5 = 0
1. Elymus repens	50	✓ FACL	Column Totals: 105 (A) 420 (B)
2 Phleum pratense	50	✓ FACU	J Prevalence Index = B/A = 4.0
3 Cirsium arvense	5	FACL	
4			1 - Rapid Test for Hydrophytic Vegetation
5.			2 - Dominance Test is >50%
6.			3 - Prevalence Index is ≤3.0 ¹
7.			4 - Morphological Adaptations (Provide supporting
8.			data in Remarks or on a separate sheet)
9,			Problematic Hydrophytic Vegetation¹ (Explain)
10			
Woody Vine Stratum (Plot size: 30 ft r	_) 105%	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.			- Hydrophytic
(*) <u>-</u>			Vegetation
2.			
		= Total Cover	Present? Yes No

Profile Description: (Description Mate		Redox Features			
(inches) Color (mois			pe¹ Loc²	Texture	Remarks
0 - 24 10YR 2/2	100			Silt Loam	
	77-2				
		47 7 1			
-					
		7777			
Tune: C=Concentration D=	-Danlation PM-	Reduced Matrix, MS=Masked San	d Grains	21 ocation: DI	=Pore Lining, M=Matrix.
Tydric Soil Indicators:	Depletion, Min-	Reduced Matrix, MO-Masked Garn	o Granis.		Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Gleyed Matrix (5	S4)		ie Redox (A16)
Histic Epipedon (A2)		Sandy Redox (S5)	- /	Dark Surface	
Black Histic (A3)		Stripped Matrix (S6)			nese Masses (F12)
Hydrogen Sulfide (A4)		Loamy Mucky Mineral	(F1)	Very Shallo	w Dark Surface (TF12)
Stratified Layers (A5)		Loamy Gleyed Matrix ((F2)	Other (Expl	ain in Remarks)
2 cm Muck (A10)	A Marie	Depleted Matrix (F3)	. 1		
Depleted Below Dark Su	and the second s	Redox Dark Surface (F		40.00.00	70.4
Thick Dark Surface (A12		Depleted Dark Surface			ydrophytic vegetation and
 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea 		Redox Depressions (Fi	8)		drology must be present, urbed or problematic.
Restrictive Layer (if observ			T	uniess distr	arbed or problematic.
Type:					
		_		Hydric Soil Pres	sent? Yes No
Depth (inches):Remarks:					
Remarks:			i.l.		
Remarks:	APG.				
Remarks: YDROLOGY Netland Hydrology Indicat		rody shook all that apply)		Coccodes la	diactors (minimum of two sources
Remarks: YDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum		The Washington Will black on the			dicators (minimum of two required
YDROLOGY Netland Hydrology Indicat Primary Indicators (minimum Surface Water (A1)		Water-Stained Leaves (B	(a)	Surface	Soil Cracks (B6)
YDROLOGY Netland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B Aquatic Fauna (B13)		Surface S Drainage	Soil Cracks (B6) Patterns (B10)
YDROLOGY Netland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stained Leaves (B Aquatic Fauna (B13) True Aquatic Plants (B14))	Surface S Drainage Dry-Seas	Soil Cracks (B6) Patterns (B10) son Water Table (C2)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is requir	Water-Stained Leaves (Bi Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C) 01)	Surface Drainage Dry-Seas	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is requir	Water-Stained Leaves (Binder Stained Leaves (Binder Stained Binder) C1) in Living Roots (C	Surface : Drainage Dry-Seas Crayfish Saturatio	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is requir	Water-Stained Leaves (Bit) C1) in Living Roots (C in (C4)	Surface Su	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one is requir	Water-Stained Leaves (Bi Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (Cilia Constitution of Presence of Reduced Iron Recent Iron Reduction in) C1) in Living Roots (C in (C4)	Surface : Drainage Dry-Seas Crayfish Saturatio Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Othic Position (D2)
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Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae	of one is requir	Water-Stained Leaves (Bi Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (Cilia Control Co) C1) In Living Roots (C In (C4) Tilled Soils (C6)	Surface : Drainage Dry-Seas Crayfish Saturatio Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Othic Position (D2)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Con	of one is requir	Water-Stained Leaves (Bi Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (Cilia Control Co) C1) In Living Roots (C In (C4) Tilled Soils (C6)	Surface of Drainage Dry-Seas Crayfish Saturation Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Othic Position (D2)
Print Deposits (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations:	of one is requirerial Imagery (B7	Water-Stained Leaves (Bi Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (Cilia Control Co) C1) In Living Roots (C In (C4) Tilled Soils (C6)	Surface of Drainage Dry-Seas Crayfish Saturation Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Othic Position (D2)
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Proposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present? Saturation Present? includes capillary fringe)	erial Imagery (B7 acave Surface (B7 Yes N Yes N	Water-Stained Leaves (B) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remark) C1) In Living Roots (Cin (C4) Tilled Soils (C6) (S) Wetlan	Surface s Drainage Dry-Seas Crayfish Saturatio Stunted s Geomory FAC-Neu and Hydrology Pre-	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Othic Position (D2)
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Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	erial Imagery (B7 acave Surface (B7 Yes N Yes N	Water-Stained Leaves (B) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres or Presence of Reduced Iror Recent Iron Reduction in Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remark No Depth (inches): Depth (inches):) C1) In Living Roots (Cin (C4) Tilled Soils (C6) (S) Wetlan	Surface s Drainage Dry-Seas Crayfish Saturatio Stunted s Geomory FAC-Neu and Hydrology Pre-	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Ohic Position (D2) Utral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	erial Imagery (B7 acave Surface (B7 Yes N Yes N	Water-Stained Leaves (B) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres or Presence of Reduced Iror Recent Iron Reduction in Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remark No Depth (inches): Depth (inches):) C1) In Living Roots (Cin (C4) Tilled Soils (C6) (S) Wetlan	Surface s Drainage Dry-Seas Crayfish Saturatio Stunted s Geomory FAC-Neu and Hydrology Pre-	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Ohic Position (D2) Utral Test (D5)

Project/Site: Byron Solar		(City/Count	y: Dodge		_ Samplin	g Date: 202	20-10-28
Applicant/Owner: EDF Renewable	es				State: Minnesot			
Investigator(s): David Kuhlmann			Section, To	ownship, Ra	nge: Section 13, T1	06N, R16	W	
Landform (hillslope, terrace, etc.): Te					(concave, convex, none			
Slope (%): 15 Lat. 43.98	327881		ong: -92	2.6796052	2	Datum:	NAD 83	
Soil Map Unit Name: Nasset-Winnesh						fication: N	one	
Are climatic / hydrologic conditions on	the site typical f	or this time of yea	r? Yes	✓ No	(If no, explain in	Remarks.)		
Are Vegetation, Soil, c								No
Are Vegetation, Soil, c								
SUMMARY OF FINDINGS -								res, etc.
Hydrophytic Vegetation Present?	Yes	200000000000000000000000000000000000000	Series, no		o sumerice a circo s	22.6	223707 (27 6100	
Hydric Soil Present?	Yes		ls t	he Sampled	Area			
Wetland Hydrology Present?			with	hin a Wetlar	nd? Yes	No		
Remarks:								_
Terrace on hill slope o	f field							
VEGETATION – Use scientific	names of pla	ants.						
Tree Stratum (Plot size: 30 ft r	· ·	Absolute % Cover		t Indicator	Dominance Test wo	700000000000000000000000000000000000000		
1.		% Cover	Species	Status	Number of Dominant That Are OBL, FACV		1	(A)
2								(4)
3.					Total Number of Don Species Across All St		2	(B)
4.								
5.					Percent of Dominant That Are OBL, FACW		50	(A/B)
	4F ft		= Total Co	over	1,700	7.3.		
Sapling/Shrub Stratum (Plot size)			Prevalence Index w		47	
1/				-	Total % Cover of			-
2.				_	OBL species 0	x	1 = 0 2 = 0	-
3.			+		The second secon		3 = 150	_
4,			_		FACU species 50		4 = 200	-
0			= Total Co		UPL species 0		5 = 0	_
Herb Stratum (Plot size: 5 ft r			- Total GC		Column Totals: 100		0=0	(B)
1. Ambrosia trifida		50	_	FAC	1 4 4			187
2 Bromus inermis		50		FACU	Prevalence Inde	Section 19 Section 19		_
3			-		Hydrophytic Vegeta			
4			_		1 - Rapid Test fo			1
5			_		2 - Dominance T			
6					3 - Prevalence In			and the same
7.				-	4 - Morphologica data in Rema	rks or on a	separate she	supporting et)
8			_		Problematic Hyd	rophytic Ve	getation' (Ex	plain)
9,							350 40 10 40	
10			= Total Co		¹ Indicators of hydric s			gy must
Woody Vine Stratum (Plot size: 30	Oftr)	100/0	- Total Co	over	be present, unless di	sturbed or p	roblematic.	0 110
1					Hydrophytic			
2.					Vegetation			
			= Total Co	over	Present?	/es	No	-
Remarks: (Include photo numbers h	iere or on a sepa	arate sheet.)						

Depth Mat		Redox Feature			
(inches) Color (mois	t) %	Color (moist) %	Type ¹ Loc ²	Texture	Remarks
0 - 24 10YR 2/2	100			Silt Loam	
- 1					
				-	
-					
<u>-</u>					
Tuna: C=Concentration D	Danistian PM	=Reduced Matrix, MS=Masked	Sand Grains	21 ocation: DI =	Pore Lining, M=Matrix.
lydric Soil Indicators:	Depletion, Nivi	-Reduced Matrix, Mo-Masket	Sand Grants.		oblematic Hydric Soils ³ :
Histosol (A1)		Sandy Gleyed Ma	driv (SA)		Redox (A16)
Histic Epipedon (A2)		Sandy Redox (S5		Dark Surface	
Black Histic (A3)		Stripped Matrix (S			ese Masses (F12)
Hydrogen Sulfide (A4)		Loamy Mucky Mir			Dark Surface (TF12)
Stratified Layers (A5)		Loamy Gleyed Ma			in in Remarks)
2 cm Muck (A10)		Depleted Matrix (F3)		
Depleted Below Dark Si		Redox Dark Surfa		12.75	
_ Thick Dark Surface (A1:		Depleted Dark Su			drophytic vegetation and
Sandy Mucky Mineral (S		Redox Depression	ns (F8)		ology must be present,
5 cm Mucky Peat or Pe				unless distur	bed or problematic
Restrictive Layer (if obser	red):				
Type:		_		Hydric Soil Prese	ent? YesNo
					100
Depth (inches):Remarks:					
Remarks:					
YDROLOGY					
Remarks: YDROLOGY Wetland Hydrology Indicat					
Remarks: YDROLOGY Netland Hydrology Indicators (minimum		The second secon		- 100 V T V V V	and the reference of the contract of the contr
YDROLOGY Netland Hydrology Indicators (minimum Surface Water (A1)		Water-Stained Leav		Surface S	oil Cracks (B6)
YDROLOGY Wetland Hydrology Indicator (minimum Surface Water (A1) High Water Table (A2)		Water-Stained Leav Aquatic Fauna (B13)	Surface Si Drainage	oil Cracks (B6) Patterns (B10)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants) (B14)	Surface So Drainage I Dry-Seaso	oil Cracks (B6) Patterns (B10) on Water Table (C2)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is requi	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od) (B14) dor (C1)	Surface Si Drainage I Dry-Seaso Crayfish B	oil Cracks (B6) Patterns (B10) on Water Table (C2) Jurrows (C8)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is requi	 Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od Oxidized Rhizosphe) (B14) dor (C1) res on Living Roots	Surface Si Drainage I Dry-Seaso Crayfish B (C3) Saturation	oil Cracks (B6) Patterns (B10) on Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is requi	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od Oxidized Rhizosphe Presence of Reduce) (B14) dor (C1) res on Living Roots d Iron (C4)	Surface Si Drainage I Dry-Seaso Crayfish B (C3) Saturation Stunted or	poil Cracks (B6) Patterns (B10) on Water Table (C2) furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one is requi	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soils (C	Surface Si Drainage Dry-Seaso Crayfish B (C3) Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) Eurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one is requi	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface () (B14) dor (C1) res on Living Roots of Iron (C4) on in Tilled Soils (C C7)	Surface Si Drainage Dry-Seaso Crayfish B (C3) Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
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YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Active Sparsely Vegetated Confield Observations:	of one is requi	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od Oxidized Rhizosphe Presence of Reducet Recent Iron Reducti Thin Muck Surface (Gauge or Well Data B8) Other (Explain in Re	(B14) (B14) dor (C1) res on Living Roots of Iron (C4) on in Tilled Soils (C C7) (D9)	Surface Si Drainage Dry-Seaso Crayfish B (C3) Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) Eurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2)
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Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A6 Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present? Saturation Present? Includes capillary fringe)	erial Imagery (B acave Surface (Yes Yes Yes	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (7) Gauge or Well Data B8) Other (Explain in Re No Depth (inches): No Depth (inches):	(B14) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soils (C C7) (D9) marks) Wet	Surface Si Drainage Dry-Seaso Crayfish B (C3) Saturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) on Water Table (C2) Furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) Inic Position (D2) ral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Active Sparsely Vegetated Confield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	erial Imagery (B acave Surface (Yes Yes Yes	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Gauge or Well Data B8) Other (Explain in Re	(B14) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soils (C C7) (D9) marks) Wet	Surface Si Drainage Dry-Seaso Crayfish B (C3) Saturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) on Water Table (C2) Furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) Inic Position (D2) ral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Active Sparsely Vegetated Confield Observations: Surface Water Present? Water Table Present? Saturation Present? Cincludes capillary fringe) Describe Recorded Data (strerace	erial Imagery (B acave Surface (Yes Yes Yes	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (7) Gauge or Well Data B8) Other (Explain in Re No Depth (inches): No Depth (inches):	(B14) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soils (C C7) (D9) marks) Wet	Surface Si Drainage Dry-Seaso Crayfish B (C3) Saturation Stunted or Geomorph FAC-Neut	Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Active Sparsely Vegetated Confield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	erial Imagery (B acave Surface (Yes Yes Yes	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (7) Gauge or Well Data B8) Other (Explain in Re No Depth (inches): No Depth (inches):	(B14) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soils (C C7) (D9) marks) Wet	Surface Si Drainage Dry-Seaso Crayfish B (C3) Saturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) on Water Table (C2) Furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) Inic Position (D2) ral Test (D5)

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020-10-28
Applicant/Owner: EDF Renewable	es			State: Minnesota	Sampling Point: NW-03
nvestigator(s): David Kuhlmann			Section, Township, R	ange: Section 13, T10	6N, R16W
Landform (hillslope, terrace, etc.): Hi				f (concave, convex, none):	
Slope (%): Lat: 43.98	320251		Long: -92.681827	2	Datum: NAD 83
Soil Map Unit Name: Winneshiek sil	t Ioam, 6 to 12	percent slopes	, moderately eroded	(M526C2) NWI classific	cation: None
Are climatic / hydrologic conditions on	the site typical	for this time of ye	ear? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, c					
Are Vegetation, Soil, c					
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	Yes	No.	14 10 10 10		2 1 15 15 14 14 14 14 14 14 14 14 14 14 14 14 14
Hydric Soil Present?		No_	is the Sample		
Wetland Hydrology Present?	Yes	No	within a Wetla	and? Yes	No
Remarks:					
Harvested soybean field, sam	-			ncave position; no ev	idence of stressed or
drowned out crops, aerial sign	- 10 17 7 6		ature		
VEGETATION – Use scientific	names of p				
Tree Stratum (Plot size: 30 ft r	Υ.	Absolute % Cover	Dominant Indicator Species? Status		
1.		_va Cover	Opecies: Status	Number of Dominant S That Are OBL, FACW,	
2.					100
3.				Total Number of Domin Species Across All Stra	
4.					
5				Percent of Dominant S That Are OBL, FACW,	
A	15 ft r		= Total Cover		
Sapling/Shrub Stratum (Plot size		_).		Prevalence Index wor	
1)					
2			·	OBL species 0	x 1 = 0 x 2 = 0
3					x 3 = 0
4,				FACU species 0	
·			= Total Cover		x 5 = 0
Herb Stratum (Plot size: 5 ft r		_	_ Total Gover		(A) 0 (B)
1					
2,				Prevalence Index	
3				Hydrophytic Vegetation	
4,					Hydrophytic Vegetation
5				2 - Dominance Tes	
6				3 - Prevalence Ind	
7					Adaptations [†] (Provide supporting s or on a separate sheet)
8			-		phytic Vegetation (Explain)
9,					Carried Caldan as you have provided
10			a Total Cours		il and wetland hydrology must
			= Total Cover	be present, unless dist	urbed or problematic.
Woody Vine Stratum (Plot size: 30	Oft r)			
Woody Vine Stratum (Plot size: 30)		Hydrophytic	
1.				Hydrophytic Vegetation	· ·
				Vegetation	s No

Depth	Matrix		F	edox Featur				
(inches)	Color (moist)	400	Color (moist	%	Type ¹	Loc²		Remarks
0 - 16	10YR 2/1	100	-		-		Silty clay	
16 ⁻ 22	10YR 3/2	100					Silty clay	
22 - 28	10YR 4/3	100	- <u>I</u>		-		Silty clay	
Type: C=C	oncentration, D=De	pletion, RN	M=Reduced Matri	, MS=Maske	d Sand Gr	ains.		=Pore Lining, M=Matrix.
lydric Soil	Indicators:						Indicators for I	Problematic Hydric Soils ³ :
_ Histosol	No. of the last of			dy Gleyed M				ie Redox (A16)
	oipedon (A2)			dy Redox (S			Dark Surface	
Black Hi	stic (A3) en Sulfide (A4)			oped Matrix (my Mucky M	the second second second			nese Masses (F12) w Dark Surface (TF12)
	Layers (A5)			my Gleyed N				ain in Remarks)
	ick (A10)			leted Matrix				
Depleted	Below Dark Surface	ce (A11)	Rec	lox Dark Sur	face (F6)			
	ark Surface (A12)			leted Dark S	THE RESERVE AS A SECOND SECOND)		ydrophytic vegetation and
	fucky Mineral (S1)	221	Rec	lox Depressi	ons (F8)			drology must be present,
	icky Peat or Peat (S Layer (if observed)						uniess disti	urbed or problematic
	cayer (ii observed	,						
I VDE:								The state of the s
Type: Depth (ind Remarks:	ches)::						Hydric Soil Pres	sent? Yes No_V
Depth (indexed) Remarks: YDROLO	GY						Hydric Soil Pres	sent? Yes No
Depth (ind Remarks: YDROLO Netland Hyd	GY drology Indicators							
Depth (inc Remarks: YDROLO Wetland Hyd	GY drology Indicators cators (minimum of				(100)		Secondary In	dicators (minimum of two required
Depth (ind Remarks: YDROLO Vetland Hyd Primary India Surface	GY drology Indicators cators (minimum of Water (A1)		Water	Stained Lea	4.00		Secondary In Surface	dicators (minimum of two required Soil Cracks (B6)
Depth (inc Remarks: YDROLO Vetland Hyd Primary Indic Surface High Wa	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Water	-Stained Lea c Fauna (B1	3)		Secondary In Surface Drainage	dicators (minimum of two required Soil Cracks (B6) Patterns (B10)
Primary Indic Surface High Wa	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Water Aquat True /	-Stained Lea c Fauna (B1 (quatic Plant	3) s (B14)		Secondary In Surface S Drainage Dry-Seas	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2)
YDROLO Vetland Hyde Surface High Water Mat	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1)		Water Aquat True / Hydro	-Stained Lea c Fauna (B1 quatic Plant gen Sulfide (3) s (B14) Odor (C1)	ring Roots	Secondary In Surface : Drainage Dry-Seas	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Primary Indices Surface High Water Manuel Sedimen	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Water Aquat True / Hydro	-Stained Lea c Fauna (B1 quatic Plant gen Sulfide (3) s (B14) Odor (C1) eres on Liv		Secondary In Surface Surfaces Dry-Seas Crayfish (C3) Saturation	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Primary India Surface High Water M Sedimer Drift Der	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)		Water Aquat True / Hydro Oxidiz Prese	-Stained Lea c Fauna (B1, Aquatic Plant gen Sulfide C ed Rhizosph	3) s (B14) Odor (C1) eres on Liv eed Iron (C	4)	Secondary In Surface Drainage Dry-Seas Crayfish (C3) Saturatio Stunted	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Primary Indices Surface High Water M Sedimer Drift Deg Algal Ma	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)		Water Aquat True / Hydro Oxidiz Prese	-Stained Lea c Fauna (B1. Aquatic Plants gen Sulfide C ed Rhizosph nce of Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C- tion in Tille	4)	Secondary In Surface Surface Dry-Seas Crayfish (C3) Saturation Stunted (C3) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary Indic Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial	one is req	Water Aquat True / Hydro Oxidiz Prese Recer Thin M	Stained Lea c Fauna (B1) quatic Plants gen Sulfide (C ed Rhizosph nce of Reduc it Iron Reduc luck Surface e or Well Dats	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4)	Secondary In Surface Surface Dry-Seas Crayfish (C3) Saturation Stunted (C3) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegelated Concav	one is req	Water Aquat True / Hydro Oxidiz Prese Recer Thin M	Stained Lea c Fauna (B1) quatic Planti gen Sulfide C ed Rhizosph nce of Reduc t Iron Reduc fuck Surface	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4)	Secondary In Surface Surface Dry-Seas Crayfish (C3) Saturation Stunted (C3) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary India Surface High Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial at Vegetated Concavivations:	one is req Imagery (ve Surface	Water Aquat True / Hydro Oxidiz Prese Recer Thin M B7) Gauge (B8) Other	Stained Lea c Fauna (B1) quatic Plants gen Sulfide (C ed Rhizosph nce of Reduc it Iron Reduc fluck Surface e or Well Data (Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4)	Secondary In Surface Surface Dry-Seas Crayfish (C3) Saturation Stunted (C3) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water	GY drology Indicators cators (minimum of Water (A1) on (A3) larks (B1) on Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial / Vegelated Concav vations: er Present?	Imagery (/e Surface	Water Aquat True / Hydro Oxidiz Prese Recer Thin M B7) Gauge (B8) Other	Stained Lea c Fauna (B1, quatic Plants gen Sulfide C ed Rhizosph nce of Reduc t Iron Reduc tuck Surface or Well Data (Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9) emarks)	4)	Secondary In Surface Surface Dry-Seas Crayfish (C3) Saturation Stunted (C3) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (ind Remarks: YDROLO Netland Hyde Primary Indice High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obsert Surface Water Nater Table	drology Indicators cators (minimum of Water (A1) her Table (A2) on (A3) larks (B1) ht Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Vegetated Concavivations: er Present?	Imagery (/e Surface Yes	Water Aquat True / Hydro Oxidiz Prese Recer Thin M B7) Gaug (B8) Other No Dept No Dept	Stained Lea c Fauna (B1) quatic Planti gen Sulfide C ed Rhizosph nce of Reduc it Iron Reduc fuck Surface or Well Data (Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Secondary In Surface Surface Drainage Dry-Seas Crayfish (C3) Saturation Stunted (6) Geomory FAC-Neu	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Primary India Surface High Water M Sedimer Drift Der Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water Water Table Saturation Princludes cap	GY drology Indicators cators (minimum of Water (A1) of (A3) larks (B1) of Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial of Vegetated Concaverations: er Present? Present?	Imagery (ve Surface Yes Yes	Water Aquat True / Hydro Oxidiz Prese Recer Thin M B7) Gauge (B8) Other No Dept No Dept No Dept	Stained Lea c Fauna (B1) quatic Plants gen Sulfide C ed Rhizosph nce of Reduct t Iron Reduct tuck Surface or Well Data (Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Secondary In Surface Surface Drainage Dry-Seas Crayfish (C3) Saturation Stunted Geomory FAC-Net	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary India Surface High Water M Sedimer Drift Der Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water Water Table Saturation Pr (includes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Vegetated Concav vations: er Present? Present?	Imagery (ve Surface Yes Yes	Water Aquat True / Hydro Oxidiz Prese Recer Thin M B7) Gauge (B8) Other No Dept No Dept No Dept	Stained Lea c Fauna (B1) quatic Plants gen Sulfide C ed Rhizosph nce of Reduct t Iron Reduct tuck Surface or Well Data (Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Secondary In Surface Surface Drainage Dry-Seas Crayfish (C3) Saturation Stunted Geomory FAC-Net	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Primary India Surface High Water M Sedimer Drift Der Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water Water Table Saturation Princludes cap	GY drology Indicators cators (minimum of Water (A1) of (A3) larks (B1) of Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial of Vegetated Concaverations: er Present? Present?	Imagery (ve Surface Yes Yes	Water Aquat True / Hydro Oxidiz Prese Recer Thin M B7) Gauge (B8) Other No Dept No Dept No Dept	Stained Lea c Fauna (B1) quatic Plants gen Sulfide C ed Rhizosph nce of Reduct t Iron Reduct tuck Surface or Well Data (Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Secondary In Surface Surface Drainage Dry-Seas Crayfish (C3) Saturation Stunted Geomory FAC-Net	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Project/Site: Byron Solar			City/Count	y: Dodge		Sampling Date: _	2020-10-28
Applicant/Owner: EDF Renewable					State: Minnesota		۱W-04
Investigator(s): David Kuhlmann			Section, T	ownship, Ra	nge: Section 13, T106	6N, R16W	
Landform (hillslope, terrace, etc.): Up					(concave, convex, none):		
Slope (%): 5 Lat: 43.98	26050		Long: -9	2.683008	1	Datum: NAD 83	}
Soil Map Unit Name: Clyde-Floyd	complex, 1 to 4	percent sl	opes (M	518B)	NWI classific	ation: None	
Are climatic / hydrologic conditions on	the site typical for t	his time of year	ar? Yes _	V No_	(If no, explain in R	emarks.)	
Are Vegetation, Soil,	r Hydrology	significantly	disturbed?	Are *	Normal Circumstances" p	present? Yes_	No
Are Vegetation, Soil,	r Hydrology	naturally pro	blematic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS -	Attach site ma	showing	sampli	ng point le	ocations, transects	, important fea	atures, etc.
Hydrophytic Vegetation Present?	Yes	No	1111				
Hydric Soil Present?	Yes	No		he Sampled		.,	
Wetland Hydrology Present?	Yes	No	wit	hin a Wetlar	nd? Yes	No	de electric
Remarks:							
Side of hill slope used	for access I	betweer	ag fie	elds			
VEGETATION – Use scientific	names of plant	s.					
		Absolute	Dominar	nt Indicator	Dominance Test work	sheet;	
Tree Stratum (Plot size: 30 ft r		% Cover	Species'	? Status	Number of Dominant Sp		
1					That Are OBL, FACW, o	or FAC: 2	(A)
2				-	Total Number of Domin		440
3			_		Species Across All Stra	ta: <u>3</u>	(B)
5.			_		Percent of Dominant Sp		(A7D)
		7	= Total Co	over	That Are OBL, FACW, o	or FAC: 07	(A/B)
Sapling/Shrub Stratum (Plot size	15 ft r	_	10.01	110	Prevalence Index work	ksheet:	
1					Total % Cover of:		by:
2			_	-		$x = \frac{0}{0}$	_
3				-	FACW species 30	$x = \frac{60}{00}$	
4				-	FACU species 40	x 3 = 90 x 4 = 160	-
5			TOR LEVE		17100 000000	x = 100 x = 0	-
Herb Stratum (Plot size: 5 ft r	- 1	-	= Total Co	over	UPL species 0 Column Totals: 100	040	/P\
1. Bromus inermis		30	~	FACU	Column Totals, 100	(A) 310	(B)
2, Phalaris arundinacea		30		FACW	Prevalence Index	= B/A = 3.1	
3. Setaria pumila		30		FAC	Hydrophytic Vegetation	on Indicators:	
4. Taraxacum officinale		10		FACU	1 - Rapid Test for H		ition
5,					2 - Dominance Tes	it is >50%	
6					3 - Prevalence Inde		
7		نستان			4 - Morphological A	Adaptations¹ (Provi	
8					Problematic Hydron		
9,		نستد			Problematic Hydron	priytic vegetation	(Explain)
10			-		¹ Indicators of hydric soil	l and wetland hydro	ology must
Woody Vine Stratum (Plot size: 30	Oft r	100%	= Total Co	over	be present, unless distu		
1			· 		Hydrophytic		
2;			-		Vegetation	s No	
	4.2.2.4		= Total Co	over	Present? Yes	s No	
Remarks: (Include photo numbers h	ere or on a separat	e sneet.)					

Profile Description: (Description:				or or contim	n the absence of ir	idicators.)
Depth Mate (inches) Color (mois		Color (moist)	% Type	Loc ²	Texture	Remarks
0 - 24 10YR 2/2	100	COICI (MOICE)			Silt Loam	Nomano
					- Cirt Louisi	
	_		_			
-						
				-		
¹ Type: C=Concentration, D=	Depletion RM=	Reduced Matrix M	S=Masked Sand	Grains	21 ocation: Pl	=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Depletion, Film	reduced matrix, in	O-Masked Carlo	Ordino.		Problematic Hydric Soils ³ :
Histosol (A1)		Sandy	Gleyed Matrix (S4	.)		ie Redox (A16)
Histic Epipedon (A2)			Redox (S5)		Dark Surfa	
Black Histic (A3)			d Matrix (S6)			inese Masses (F12)
Hydrogen Sulfide (A4)			Mucky Mineral (F			w Dark Surface (TF12)
Stratified Layers (A5)			Gleyed Matrix (F)	2)	Other (Exp	lain in Remarks)
2 cm Muck (A10) Depleted Below Dark St	rface (A11)		ed Matrix (F3) Dark Surface (F6			
Thick Dark Surface (A12			ed Dark Surface (3Indicators of h	ydrophytic vegetation and
Sandy Mucky Mineral (S			Depressions (F8)	3,		drology must be present,
5 cm Mucky Peat or Pea					unless distr	urbed or problematic.
Restrictive Layer (if observ	ed):					
Type:		_			Hudric Sail Brow	sent? Yes No
туре					riyunc Sun Fres	Sent les NO
Depth (inches): Remarks:						
Depth (inches):Remarks:						
Depth (inches):Remarks:	ors:					
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicat		ed: check all that a	pply)		Secondary In	dicators (minimum of two required)
Depth (inches):			Part of the same of the			dicators (minimum of two required)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicat		Water-Sta	pply) nined Leaves (B9) auna (B13)		Surface	idicators (minimum of two required) Soil Cracks (B6) Patterns (B10)
Depth (inches):		Water-Sta Aquatic F	ined Leaves (B9)		Surface Drainage	Soil Cracks (B6)
Depth (inches):		Water-Sta Aquatic F True Aqua	nined Leaves (B9) auna (B13)		Surface Drainage Dry-Sea	Soil Cracks (B6) Patterns (B10)
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Depth (inches)::		Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron) Living Roots C4)	Surface Drainage Dry-Sea Crayfish (C3) Saturatio	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
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Project/Site: Byron Solar			City/Cou	nty: Dodge		Sampling Date: _	2020-10-28
Applicant/Owner: EDF Renewables	S				State: Minnesota	Sampling Point	NW-05
Investigator(s): David Kuhlmann			Section,	Township, Ra	nge: Section 13, T106	3N, R16W	
Landform (hillslope, terrace, etc.): Up					(concave, convex, none):		
Slope (%): 5 Lat: 43.982	23608		Long:	92.6880526	6	Datum: NAD 83	3
Soil Map Unit Name: Kasson silt Io							
Are climatic / hydrologic conditions on	the site typical f	for this time of ye	ar? Yes	V No_	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or	Hydrology	significantly	disturbed	d? Are	Normal Circumstances" p	resent? Yes	No
Are Vegetation, Soil, or					eded, explain any answe		
SUMMARY OF FINDINGS - A							atures, etc.
Hydrophytic Vegetation Present?	Yes	No_		L 197 - 174	400		
Hydric Soil Present?	Yes_	No		the Sampled			
Wetland Hydrology Present?	Yes	No_V	W	vithin a Wetlar	nd? Yes	No	A - I
Remarks:							
Avoided mound in ag f	ield						
VEGETATION – Use scientific	names of pla	ants.					
30 ft r		Absolute		ant Indicator	Dominance Test work	sheet;	
Tree Stratum (Plot size: 30 ft r		% Cover	Specie	s? Status	Number of Dominant Sp		/AV
2					That Are OBL, FACW, o	JI FAG.	(A)
3					Total Number of Domini Species Across All Stra		(B)
4.							
5					Percent of Dominant Sp That Are OBL, FACW, of		(A/B)
	5 ft r		= Total (Cover	The second second		8.550
Sapling/Shrub Stratum (Plot size: 1					Prevalence Index work		u bur
1			-		Total % Cover of: OBL species 0		y by.
2			_		FACW species 0		
3					FAC species 30	x 3 = 90	
5.					FACU species 70	x 4 = 280	
1 A			= Total (Cover	UPL species 0	× 5 = 0	
Herb Stratum (Plot size: 5 ft r				FACU	Column Totals: 100	(A) 370	(B)
1. Solidago canadensis		50	V		Prevalence Index	- D/A - 3.7	
Ambrosia trifida Erigeron annuus		$\frac{20}{20}$	- V	FACU FACU	Hydrophytic Vegetation		_
4 Acer negundo		10	-	FAC	1 - Rapid Test for H		ation
46		- $=$ $-$	-		2 - Dominance Tes		adon
5, 6			-		3 - Prevalence Inde		
7					4 - Morphological A	to the state of	ide supportina
8						s or on a separate	
9,					Problematic Hydrop	phytic Vegetation ¹	(Explain)
10.					4 - 3 - 5 - 5 - 5		
Woody Vine Stratum (Plot size: 30	ftr	100%	= Total (Cover	¹ Indicators of hydric soil be present, unless distu		
1					Hydrophytic		
2.					Vegetation	1 2 24	/
Maria Caracteria			= Total	Cover	Present? Yes	s No	-
Remarks: (Include photo numbers he	ere or on a sepa	arate sheet.)					

Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie R. Histosol (A1) Sandy Redox (S5) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (S6) Dark Surface (A10) Depleted Matrix (F2) Other (Explain in Depleted Below Dark Surface (A11) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Sindicators of hydrox Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Wetland hydrolox Unless disturbed Series (F7) Series (F8) Depth (inches): Type: Depth (inches): Hydric Soil Present (S6) Prese	Remarks
8 - 24 10YR 2/2 98 10YR 3/4 2 C M Silt Loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie R Grains (A2) Sandy Redox (S5) Dark Surface (S Dark Surface (S Dark Surface (S Dark Surface (A11) Coast Prairie R Grain (A2) Sandy Mucky Mineral (F1) Very Shallow D Chert (Explain in Depleted Below Dark Surface (A11) Packot Dark Surface (F2) Depleted Matrix (F2) Depleted Matrix (F3) Coast Prairie R Grain (F2) Sondy Mucky Mineral (S1) Coast Prairie R Grain (F2) Depleted Dark Surface (F7) Sondy Mucky Mineral (S1) Redox Depressions (F8) Wetland Hydrology Indicators of hydro wetland hydrology Indicators (F2) Depleted Dark Surface (F7) Grain (F2) Coast Prairie R Grain (F2) Coast Prairie R Grain (F2) Coast Prairie R Grain (F2) Coast Prairie R Grain (F2) Coast Prairie R Grain (F2) Coast Prairie R Grain (F3)	TARIAL DE LA CONTRACTOR
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Phydric Soil Indicators: Histoscol (A1) Histoscol (A2) Black Histic (A3) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S Black Histic (A3) Stripped Matrix (S6) Dark Surface (S Loamy Mucky Mineral (F1) Very Shallow D Stratified Layers (A5) Loamy Mucky Mineral (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Fredox Derk Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Fredox Derk Surface (F7) Indicators or hydro wetland hydrology unless disturbed to the strip of the	
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Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present?	Test (D5)
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lillslope	nt? Yes No
remarks.	

Project/Site: Byron Solar		City/Count	y: Dodge	Sampli	ng Date: 2020-10-28
Applicant/Owner: EDF Renewables				State: Minnesota Samplin	
Investigator(s): David Kuhlmann		Section, T	ownship, Ra	nge: Section 13, T106N, R16	W
				(concave, convex, none): Conca	
Slope (%); 2-5 Lat: 43.9867554		Long: -9	2.684470	Datum:	NAD 83
Soil Map Unit Name: Clyde-Floyd complex, 1 to 4	4 percent sl	opes (M	518B)	NWI classification:	one
Are climatic / hydrologic conditions on the site typical for	this time of ye	ar? Yes _	V No_	(If no, explain in Remarks.	
Are Vegetation, Soil, or Hydrology	_ significantly	disturbed?	Are	'Normal Circumstances" present?	Yes No
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Rer	
SUMMARY OF FINDINGS - Attach site ma				ocations, transects, impo	rtant features, etc.
Hydrophytic Vegetation Present? Yes	No			Company were the company	
	No	ls t	the Sampled		
Wetland Hydrology Present? Yes	No	wit	hin a Wetlar	nd? Yes No	
Remarks:					
Dry swale					
VEGETATION – Use scientific names of plan	its.		- (
30 ft r	Absolute		nt Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species	Status	Number of Dominant Species	2 (A)
2			_	That Are OBL, FACW, or FAC:	2 (A)
3.	===		_	Total Number of Dominant Species Across All Strata:	3 (B)
4.					107
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	67 (A/B)
15 ft r		= Total Co	over	The second secon	- 1,120
Sapling/Shrub Stratum (Plot size 15 ft r)				Prevalence Index worksheet:	Multiply by:
1.			_	Total % Cover of:	
2			7		2 = 0
3 4.			-	The state of the s	3 = 180
5.					4 = 160
		= Total Co	over		5 = 0
Herb Stratum (Plot size: 5 ft r)	-			Column Totals: 100 (/	0.40
Ambrosia trifida	$-\frac{30}{20}$		FAC	5 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 /
2. Bromus inermis	30		FACU FAC	Prevalence Index = B/A =	
3. Setaria pumila 4 Taraxacum officinale	$-\frac{30}{10}$		FACU	Hydrophytic Vegetation Indica 1 - Rapid Test for Hydrophy	
			FACU	✓ 2 - Dominance Test is >50%	
5				3 - Prevalence Index is ≤3.0	
6		-		4 - Morphological Adaptatio	
7				data in Remarks or on a	separate sheet)
8				Problematic Hydrophytic Ve	egetation¹ (Explain)
10					
Woody Vine Stratum (Plot size: 30 ft r		= Total Co	over	¹ Indicators of hydric soil and we be present, unless disturbed or	
1				Hydrophytic	
2.				Vegetation	
		+ 416	- 1 - 1	Present? Yes	No
		= Total Co	over	W. Taraka M. A. Taraka M. Marana M.	

Color (moist)		Matrix			ox Featur		- 3		67.6
24 - 30	-	Color (moist) 10YR 2/1	100	Color (moist)	%	Type ¹	_Loc²		Remarks
30 ° 36 10YR 4/1 85 10YR 5/8 15 C M Clay Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, Ms=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, Ms=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, Ms=Masked Matrix, Ms=Masked RM=Reduced Fit2) Type: C=Concentration, D=Depletion, RM=Reduced Matrix, Ms=Masked RM=Reduced Fit2) Type: C=Concentration, Mset Type: No				10VR 5/8	15	C	M		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thirdicators: Histosoi (A1) Sandy Gleyed Matrix (S4) Black Histic (A2) Sandy Fedox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Loarny Mucky Mineral (F1) Very Shallow Dark Surface (F12) Very Shallow Dark Surface (F12) Very Shallow Dark Surface (TF12) Depleted Bedow Dark Surface (A11) Pepleted Matrix (F2) Z om Muck (A10) Depleted Matrix (F3) Z om Muck (A10) Depleted Matrix (F3) Thirk Dark Surface (A11) Fedox Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Deplit (inches): Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water Marks (B1) Seduration (A3) True Aquatic Falana (B13) Drainage Patterns (B10) Seduration (A3) True Aquatic Falana (B13) Drainage Patterns (B10) Seduration (A3) True Aquatic Palana (B13) Drainage Patterns (B10) Seduration (A3) True Aquatic Palana (B13) Drainage Patterns (B10) Seduration (A3) True Aquatic Palana (B13) Drainage Patterns (B10) Seduration (A3) True Aquatic Palana (B13) Drainage Patterns (B10) Seduration (A3) True Aquatic Palana (B13) Drainage Patterns (B10) Seduration (A3) Presence of Reduced Iron (C4) Adgal Mat or Cross (B4) Agal Mat or Cross (B4) Recent Iron Reduction in Tilled Sols (C5) Saturation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Upland swalle		A	30 2 2				-		
Hydric Soil Indicators: Histoco (A1) Histoc Epipedon (A2) Black Histic (A3) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (F2) Depleted Dark Surface (F12) Thick Dark Surface (A12) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Findicators of hydrophytic vegetation and wettend hydrology must be present, unless disturbed or problematic. Fermarks: Hydric Soil Present? Yes No Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required: check all that apply) Surface Water (A1) High Water Table (A2) Aquater Fauna (B13) Saturation (A3) Frue Aquatic Plants (B14) Dry-Season Hart Table (C2) Oxidized Rhizospheres on Living Roots (C3) Saturation (A3) Presence of Reduced Iron (C4) Aquater Pants (B1) Algal Mat or Crust (B4) Froe Poposits (B3) Presence of Reduced Iron (C4) Fedox Dark Surface (B3) Presence of Reduced Iron (C4) Fedox Dark Surface (B3) Fedox Dark Surface (B3) Fedox Dark Surface (B3) Presence of Reduced Iron (C4) Fedox Dark Surface (B3) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface	-	101114/1	- 63	10111 3/8	- 10		IVI		
Hydric Soil Indicators: Histoco (A1) Histoc Epipedon (A2) Black Histic (A3) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (F2) Depleted Dark Surface (F12) Thick Dark Surface (A12) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Fedox Dark Surface (F7) Findicators of hydrophytic vegetation and wettend hydrology must be present, unless disturbed or problematic. Fermarks: Hydric Soil Present? Yes No Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required: check all that apply) Surface Water (A1) High Water Table (A2) Aquater Fauna (B13) Saturation (A3) Frue Aquatic Plants (B14) Dry-Season Hart Table (C2) Oxidized Rhizospheres on Living Roots (C3) Saturation (A3) Presence of Reduced Iron (C4) Aquater Pants (B1) Algal Mat or Crust (B4) Froe Poposits (B3) Presence of Reduced Iron (C4) Fedox Dark Surface (B3) Presence of Reduced Iron (C4) Fedox Dark Surface (B3) Fedox Dark Surface (B3) Fedox Dark Surface (B3) Presence of Reduced Iron (C4) Fedox Dark Surface (B3) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface (B7) Fedox Dark Surface	¹Type: C=C	oncentration, D=De	pletion, RN	M=Reduced Matrix, M	//S=Maske	ed Sand Gr	rains.	²Location: F	PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F2) Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Princh Dark Surface (A12) Depleted Below Dark Surface (A11) Princh Dark Surface (A12) Depleted Batrix (F3) Depleted Dark Surface (A12) Depleted Dark Surface (F6) Princh Dark Surface (A12) Depleted Dark Surface (F6) Princh Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Water Marks (B1) Hydric Soil Present? Yes No No No No No No No No									
Stripped Matrix (S8)	Histosol	(A1)		Sandy	Gleyed N	latrix (S4)		Coast Pra	airie Redox (A16)
Stratified Layers (A5)									
Depleted Below Dark Surface (A11)				The second of th				Other (Ex	plain in Remarks)
Sandy Mucky Mineral (S1)		and the state of t	ca (A11)						
Sandy Mucky Mineral (S1)			ce (ATT)				1	3Indicators of	hydrophytic vegetation and
5 cm Mucky Peat or Peat (S3) unless disturbed or problematic Restrictive Layer (if observed):						The state of the second second	,		
Restrictive Layer (if observed): Type:			33)		E-98-5-50				
Depth (inches):	Restrictive	Layer (if observed)):						
Remarks: AYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required: Check all that apply) Secondary Indicators (minimum of two required: Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Indicator Visible on Aerial Imagery (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B8) Other (Explain in Remarks) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No	Type:							11.000.00	ov 2, 2, 2
Name	Depth (in	ches):						Hydric Soil Pro	esent? Yes No
Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required: Surface Water (A1)									
Surface Water (A1)	YDROLO	GY							
High Water Table (A2)									
Saturation (A3)	Wetland Hy	drology Indicators		uired; check all that a	apply)			Secondary	Indicators (minimum of two required
Water Marks (B1)	Wetland Hy Primary Indi	drology Indicators cators (minimum of				ves (B9)			
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available: Upland swale	Wetland Hy Primary Indi Surface	drology Indicators cators (minimum of Water (A1)		Water-St	ained Lea			Surface	e Soil Cracks (B6)
Drift Deposits (B3)	Wetland Hy Primary Indi Surface High Wa	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Water-St	ained Lea Fauna (B1	3)		Surface Drainag	e Soil Cracks (B6) ge Patterns (B10)
Algal Mat or Crust (B4)	Wetland Hy Primary Indi Surface High Wa	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Water-St Aquatic F True Aqu	ained Lea Fauna (B1 Jatic Plant	3) s (B14)		Surface Drainaç Dry-Se	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Iron Deposits (B5)	Wetland Hy Primary Indi Surface High Wa Saturati Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1)		Water-St Aquatic F True Aqu Hydroge	ained Lea Fauna (B1 natic Plant n Sulfide (3) s (B14) Odor (C1)	ring Roots	Surface Drainag Dry-Se Crayfis	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8)
Inundation Visible on Aerial Imagery (B7) Gauge or Welf Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Jpland swale	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)		Water-St Aquatic F True Aqu Hydrogei Oxidized	ained Lea Fauna (B1 latic Plant n Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Liv		Surface Drainag Dry-Se Crayfis s (C3) Saturat	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9)
Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Jpland swale	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3)		Water-St Aquatic F True Aqu Hydroge Oxidized Presence	ained Lea Fauna (B1 natic Plant n Sulfide (Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C	4)	Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Upland swale	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-St Aquatic F True Aqu Hydrogei Oxidized Presence	ained Lea Fauna (B1 patic Plant n Sulfide (Rhizosph e of Reduc ron Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C	4)	Surface Drainag Dry-Se Crayfis Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Jpland swale	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent In	ained Lea Fauna (B1 latic Plant n Sulfide (Rhizosph e of Reduc on Reduc ck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Surface Drainag Dry-Se Crayfis Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dej	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presencer Recent In Thin Muc	ained Lea Fauna (B1 Iatic Plant In Sulfide (Rhizosph In Graductor In Reductor In Reductor In Well Dat	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Se Crayfis Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
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(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Jpland swale	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dej Inundati Sparsel	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concavivations:	one is required in the second of the second	Water-St Aquatic F True Aqu Hydrogei Oxidized Presence Recent II Thin Muc B7) Gauge o (B8) Other (E)	ained Lea Fauna (B1 Instic Plant In Sulfide (Rhizospher of Reduction Reduction Ck Surface In Well Dat Explain in Reduction	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Se Crayfis Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Jpland swale	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Malinon Dep Inundati Sparsel Field Obser	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav reations:	Imagery (I	Water-St Aquatic F True Aqu Hydrogei Oxidized Presence Recent II Thin Muc B7) Gauge o (B8) Other (E)	ained Lea Fauna (B1 Instic Plant In Sulfide (Rhizospher of Reduction Reduction Ck Surface In Well Dat Explain in Reduction	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Se Crayfis Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
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	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Sparsel Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial by Vegetated Concavivations: fer Present? Present? pillary fringe) corded Data (stream	Imagery (I ve Surface Yes Yes	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E: No Depth (in No Depth (in	ained Lea Fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- con Reduc- ck Surface ir Well Dat explain in R inches): nches): nches): nches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted Geomo FAC-No	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dej Inundati Sparsel Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial by Vegetated Concavivations: fer Present? Present? pillary fringe) corded Data (stream	Imagery (I ve Surface Yes Yes	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E: No Depth (in No Depth (in	ained Lea Fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- con Reduc- ck Surface ir Well Dat explain in R inches): nches): nches): nches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted Geomo FAC-No	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dej Inundati Sparsel Field Obser Surface Wal Water Table Saturation P (includes ca Describe Re	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial by Vegetated Concavivations: fer Present? Present? pillary fringe) corded Data (stream	Imagery (I ve Surface Yes Yes	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E: No Depth (in No Depth (in	ained Lea Fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- con Reduc- ck Surface ir Well Dat explain in R inches): nches): nches): nches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted Geomo FAC-No	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
	Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Sparsel Field Obser Surface Wal Water Table Saturation P (includes ca Describe Re	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial by Vegetated Concavivations: fer Present? Present? pillary fringe) corded Data (stream	Imagery (I ve Surface Yes Yes	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E: No Depth (in No Depth (in	ained Lea Fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- con Reduc- ck Surface ir Well Dat explain in R inches): nches): nches): nches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted Geomo FAC-No	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020-10-28
Applicant/Owner: EDF Renewables					Sampling Point: NW-07
nvestigator(s): David Kuhlmann			Section, Township, Ra	nge: Section 13, T106	N, R16W
andform (hillslope, terrace, etc.): Uplar				(concave, convex, none):	
Slope (%): 2-5 Lat: 43.9873	657		Long: -92.683097	7	Datum: NAD 83
Soil Map Unit Name: Clyde-Floyd co	mplex, 1 to	o 4 percent sl	opes (M518B)	NWI classifica	tion: None
Are climatic / hydrologic conditions on the	site typical f	for this time of year	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hy	drology	significantly	disturbed? Are	"Normal Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hy				eeded, explain any answer	
SUMMARY OF FINDINGS - Att	0.000			ocations, transects,	important features, etc.
Hydrophytic Vegetation Present?	Yes	No_	- 1 J		
Hydric Soil Present?	Yes_	No	is the Sample		
Wetland Hydrology Present?	Yes	No_V	within a Wetla	nd? Yes	No
Remarks:					
Dry swale with tile intake	e presei	nt, hydrolo	gy likely rem	oved	
VEGETATION – Use scientific na	mes of pla	ants.			
		Absolute	Dominant Indicator	Dominance Test works	heet:
Tree Stratum (Plot size: 30 ft r		% Cover	Species? Status	Number of Dominant Sp	
1				That Are OBL, FACW, o	r FAC: 0 (A)
2			$\overline{}$	Total Number of Domina	
3				Species Across All Strat	a: <u>1</u> (B)
4			$\overline{}$	Percent of Dominant Sp	
			= Total Cover	That Are OBL, FACW, o	r FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size 15 f	tr	_)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prevalence Index work	sheet:
1					Multiply by:
2					x1 = 0
3				FACW species 0	x 2 = 0
4,			-	FAC species 0	x = 0
5			- 10-40 to	FACU species 100	x = 400 x = 5 = 0
Herb Stratum (Plot size: 5 ft r	-).		= Total Cover	UPL species 0 Column Totals: 100	100
1. Bromus inermis		100	✓ FACU	Column Totals, 100	(A) 400 (B)
2.				Prevalence Index	= B/A = 4.0
3				Hydrophytic Vegetation	n Indicators:
4				1 - Rapid Test for H	ydrophytic Vegetation
5				2 - Dominance Test	is >50%
6				3 - Prevalence Inde	x is ≤3.0 ¹
7				4 - Morphological Ad	daptations (Provide supporting
8					or on a separate sheet) hytic Vegetation¹ (Explain)
9,		_		Problematic Hydrop	nytic vegetation (Explain)
10				1Indicators of hydric soil	and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft	r) 100%	= Total Cover	be present, unless distur	
1.				Hydrophytic	
14				March 4 March	
2				Vegetation Present? Yes	No V

Depth Mat			Redox Featur				45.4
(inches) Color (mois		Color (moi		Type ¹	Loc²	Texture	Remarks
0 - 24 10YR 2/1	95	10YR 3/4	5	<u>C</u>	M	Clay	
-							
- 30							
		-					
		-			_		
					_		
		-	0.000		1-		
Type: C=Concentration, D=	Depletion, RI	M=Reduced Mat	trix, MS=Maske	ed Sand G	rains.		L=Pore Lining, M=Matrix.
lydric Soil Indicators:							Problematic Hydric Soils ³ :
_ Histosol (A1)			andy Gleyed N				irie Redox (A16)
Histic Epipedon (A2) Black Histic (A3)			andy Redox (S tripped Matrix			Dark Surfa	anese Masses (F12)
Hydrogen Sulfide (A4)			oamy Mucky M	the second second			ow Dark Surface (TF12)
Stratified Layers (A5)			oamy Gleyed N				olain in Remarks)
2 cm Muck (A10)			epleted Matrix				
Depleted Below Dark St		<u>✓</u> R	edox Dark Sur	face (F6)		1000	
Thick Dark Surface (A12			epleted Dark S)		hydrophytic vegetation and
_ Sandy Mucky Mineral (S		R	edox Depressi	ons (F8)			drology must be present,
_ 5 cm Mucky Peat or Pea						unless dis	turbed or problematic.
Restrictive Layer (if observ	rea):						
Type:		_				Hydric Soil Pre	esent? Yes No
Contract of the Contract of th							
Depth (inches):Remarks:							
Remarks:							
Remarks: YDROLOGY	ors:						
Remarks: YDROLOGY Vetland Hydrology Indicat		uired check all	that apply)			Secondary	indicators (minimum of two require
Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum				ves (B9)			Carl Contract of the Contract
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Wat	er-Stained Lea			Surface	Soil Cracks (B6)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Wat Aqu	er-Stained Lea atic Fauna (B1	3)		Surface Drainag	Soil Cracks (B6) ge Patterns (B10)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Wat Aqu True	er-Stained Lea atic Fauna (B1 e Aquatic Plant	3) s (B14)		Surface Drainag Dry-Sea	Soil Cracks (B6)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is req	Wat Aqu True Hyd	er-Stained Lea atic Fauna (B1	3) s (B14) Odor (C1)	ving Roots	Surface Drainag Dry-Sea Crayfish	Soil Cracks (B6) ge Patterns (B10) gson Water Table (C2) g Burrows (C8)
YDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	of one is req	Wat Aqu True Hyd Oxic	er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide (3) s (B14) Odor (C1) eres on Liv	The second second	Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) n Burrows (C8) ion Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is req	Wat Aqu True Hyd Oxic Pres	er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide (dized Rhizosph	3) s (B14) Odor (C1) eres on Liv ced Iron (C	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) ge Patterns (B10) gson Water Table (C2) g Burrows (C8)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is req	Wat Aqu True Hyd Oxio Pres Rec	er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc	3) s (B14) Odor (C1) eres on Liv ced Iron (C	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) the Patterns (B10) the Son Water Table (C2) the Burrows (C8) ton Visible on Aerial Imagery (C9) tor Stressed Plants (D1)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one is req	Wat Aqu True Hyd Oxic Pres Rec Thir	er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) the Patterns (B10) ason Water Table (C2) the Burrows (C8) ton Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one is req	Wat Aqu True Hyd Oxio Pres Rec Thir B7) Gau	er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc i Muck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) the Patterns (B10) ason Water Table (C2) the Burrows (C8) ton Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor	of one is req	Wat Aqu True Hyd Oxio Pres Rec Thir B7) Gau	er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc i Muck Surface ige or Well Dat	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) the Patterns (B10) ason Water Table (C2) the Burrows (C8) ton Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations:	of one is req erial Imagery (acave Surface	Wat Aqu True Hyd Oxic Pres Rec Thin Gau e (B8) Othe	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc a Muck Surface age or Well Dat er (Explain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) the Patterns (B10) ason Water Table (C2) the Burrows (C8) ton Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations:	of one is req erial Imagery (acave Surface	— Wat — Aqu — True — Hyd — Oxic — Pres — Rec — Thir (B7) — Gau e (B8) — Othe	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc a Muck Surface age or Well Dat er (Explain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) the Patterns (B10) ason Water Table (C2) the Burrows (C8) ton Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	erial Imagery (acave Surface Yes Yes Yes	Wat Aqu True Hyd Oxic Pres Rec Thir B7) Gau (B8) Othe No De No De No De	er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc i Muck Surface ige or Well Dat er (Explain in R pth (inches): pth (inches):	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomol FAC-Ne	Soil Cracks (B6) se Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) autral Test (D5)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Nater Table Present? Saturation Present? includes capillary fringe) Describe Recorded Data (str	erial Imagery (acave Surface Yes Yes Yes Yes	Wat	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface lige or Well Dat er (Explain in R pth (inches); pth (inches); aerial photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomol FAC-Ne	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) the Burrows (C8) fon Visible on Aerial Imagery (C9) for Stressed Plants (D1) rephic Position (D2) autral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	erial Imagery (acave Surface Yes Yes Yes Yes	Wat	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface lige or Well Dat er (Explain in R pth (inches); pth (inches); aerial photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomol FAC-Ne	ne Patterns (B10) ason Water Table (C2) a Burrows (C8) and Visible on Aerial Imagery (C9) ard or Stressed Plants (D1) arphic Position (D2) autral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	erial Imagery (acave Surface Yes Yes Yes Yes	Wat	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface lige or Well Dat er (Explain in R pth (inches); pth (inches); aerial photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomol FAC-Ne	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) the Burrows (C8) tion Visible on Aerial Imagery (C9) tor Stressed Plants (D1) triphic Position (D2) sutral Test (D5)

Project/Site: Byron Solar			City/County: Dodge	Э	Sampling Date: 2020-10-28
Applicant/Owner: EDF Renewable	es			State: Minnesota	Sampling Point: NW-08
Investigator(s): David Kuhlmann			Section, Township, F	Range: Section 13, T10	ôN, R16W
Landform (hillslope, terrace, etc.): U				ef (concave, convex, none):	
Slope (%): 2-5 Lat. 43.98	355957		Long: -92.68297	80	Datum: NAD 83
Soil Map Unit Name: Kasson silt I	oam, 2 to 6 per	cent slopes	(M506B)	NWI classific	ation: PFO1B
Are climatic / hydrologic conditions or	the site typical for	this time of year	ar? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil,					present? Yes No
Are Vegetation, Soil,				needed, explain any answe	
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	Yes	No V	HILL IN		
Hydric Soil Present?	Yes	No	Is the Sampl		
Wetland Hydrology Present?	Yes	No	within a Wet	land? Yes	No
Remarks:					
Slight depression but	slopes dow	nhill tow	ards tile inta	ke	
VEGETATION – Use scientific	e names of plan	nte			
		Absolute	Dominant Indicato	Dominance Test work	sheet
Tree Stratum (Plot size: 30 ft r)		Species? Status		
1. Prunus serotina		60	FACU	That Are OBL, FACW,	
2. Acer negundo		40	FAC	Total Number of Domin	ant
3				_ Species Across All Stra	
4			-	Percent of Dominant Sp	pecies
5				- That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size	15 ft r	100%	= Total Cover	Prevalence Index wor	ksheet:
1 Ribes cynosbati		25	FAC		Multiply by:
2.					x 1 = 0
3.				FACW species 0	
4.				FAC species 95	x 3 = 285
5.				FACU species 90	x 4 = 360
A - The state of		25%	= Total Cover	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r		20	✓ FAC	Column Totals: 185	(A) 645 (B)
Hydrophyllum virginianumParthenocissus quinquefol		$-\frac{30}{30}$	FACU	Prevalence Index	- p/4 - 3.5
-			FACU	Hydrophytic Vegetation	
3					Hydrophytic Vegetation
4			_	2 - Dominance Tes	
5				3 - Prevalence Inde	
6					Adaptations (Provide supporting
7					s or on a separate sheet)
8				Problematic Hydro	phytic Vegetation¹ (Explain)
9,					
Woody Vine Stratum (Plot size: 3			= Total Cover	¹ Indicators of hydric soi be present, unless distr	il and wetland hydrology must urbed or problematic.
1			E 3:0-	Hydrophytic Vegetation	
2			= Total Cover		s No
Remarks: (Include photo numbers I	here or on a senars		- Total Cover		
The state of the s		2.75			

Depth Gelder (moist) % Color (moist) % Type Lec Silt Loam Solis very dry, friable 0 - 40 10VR 2/2 100 / Solis (moist) % Color (moist) % Type Lec Silt Loam Solis very dry, friable - 1		Matrix		Redo	x Features			n the absence	C 10-24-24
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils*: Histoso (A1) Histo Epipedon (A2) Black Histic (A3) Sandy Redox (S5) Black Histic (A3) Black Histic (A3) Solitable (A4) Hydrogon Sulfide (A4) Loamy Micely Mineral (F1) Very Shallow Dark Surface (S7) Inon-Manganese Masses (F12) Hydrogon Sulfide (A4) Loamy Dicely Mineral (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Pepleted Below Dark Surface (A11) Sandy Micely Mineral (S1) Send Muckly Mineral (S1) Send Muckly Mineral (S1) Redox Depressions (F8) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Type:** Depth (inches):** **Remarks:** **Wetland Hydrology Indicators:** **Indicators (minimum of one is required: check all that apply) Surface Water (A1) Hydrology Indicators:** **Water-Stained Leaves (B9) Hydric Soil Present? Yes No **Wetland Hydrology Indicators:** **Water Marks (B1) Hydrology Surface (A12) Saturation (A3) True Aquatic Fauna (B13) True Aquatic Fauna (B13) True Aquatic Fauna (B13) Sediment Deposits (B2) Diril Deposits (B3) Presence of Reduced Iron (C4) Adgal Mat or Croast (B4) Recent Iron Reduction in Tilled Soils (C6) Saturation (X3) For Coast (B4) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Sparsely Vegetaled Concave Surface (B3) Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Prese	Tillicites)		%				Loc2	Texture	Remarks
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Histosol (A1)									
Histosol (A1)									
Histosol (A1)	-								
Histosol (A1)	Tuna: C=Concent	tration D-Deals	tion PM-Da	duced Matrix M	S-Mackad	Sand Gr		² l onation	PI - Pore Lining M-Matrix
Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F2) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Seath full (S			alon, Nivi-Ne	duced Matrix, Mc	3-Maskeu	Sano Gra	an 15.		
Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F2) Pepleted Below Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Seath Mucky Mineral (S1) Sestrictive Layer (if observed): Type: Depth (inches): Popth (inches): Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Sediment Deposits (B3) Presence of Reduced Iron (C4) Sediment Deposits (B3) Presence of Reduced Iron (C4) Sufface (C7) Iron Deposits (B3) Presence of Reduced Iron (C4) Sparsely Vegletated Concave Surface (B8) Dry Sparsely Vegletated Concave Surface (B8) Dry Season Water Test (D5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Concave Surface (B8) Dry Season Vegletated Con	Histosol (A1)			Sandy (Sleved Mat	rix (S4)		Coast	Prairie Redox (A16)
Hydrogen Sulfide (AA)		n (A2)							
Stratified Layers (A5)	Black Histic (A	(3)							
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Sandy Mucky Mineral (S1)							1	3Indicators	of hydrophytic vegetation and
Restrictive Layer (if observed): Type: Depth (inches):: Remarks: Hydric Soil Present? Yes						Section 1997 To the second			
Type:	5 cm Mucky Po	eat or Peat (S3)						unless	disturbed or problematic
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includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Ipland swale, tile intake present, hydrology likely removed	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (I Inundation Vis Sparsely Vege	(minimum of on (A1) (ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial In	nagery (B7) Surface (B8) s No	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp	ined Leave duna (B13) tic Plants (I Sulfide Odd Rhizosphere of Reduced in Reduction Surface (C Well Data (Oblain in Ren	B14) or (C1) es on Liv if Iron (C4 in in Tille (C7) D9)	4)	Surf Drai Dry- Crai Stur Stur 6) Geo	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2)
Ipland swale, tile intake present, hydrology likely removed	Netland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits I Algal Mat or C Iron Deposits (I Inundation Vis Sparsely Vege Field Observation Surface Water Prese	(minimum of on (A1) (ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial Imelated Concave is: sent? Ye	nagery (B7) Surface (B8) s No s No	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp	ined Leave auna (B13) tic Plants (I Sulfide Odd Rhizosphere of Reduced in Reduction Surface (C Well Data (I blain in Ren ches):	B14) or (C1) es on Liv if Iron (C4 in in Tille (C7) D9)	t) d Soils (Co	Surf Drai Dry- Cray Satu Stur 6) Geo FAC	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits I Algal Mat or C Iron Deposits (I Inundation Vis Sparsely Vege Field Observation Surface Water Prese Saturation Present Includes capillary	(minimum of on (A1) (ble (A2)) (B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial Inelated Concave (B3: sent? Ye ? Ye fringe)	nagery (B7) Surface (B8) s No s No s No	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp Depth (in U Depth (in	ined Leaves auna (B13) tic Plants (I Sulfide Odd Rhizosphere of Reduced in Reduction Surface (C Well Data (I I I I I I I I I I I I I I I I I I I	B14) or (C1) es on Livi d Iron (C4 n in Tilled C7) D9) narks)	4) d Soils (Co	Surfi Drai Cray Satu Sturi 6) Geo FAC	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
	Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deporite Deposits (I Inon Deposits (I Inundation Vis Sparsely Vege Field Observation Surface Water Prese Water Table Present (includes capillary (I Describe Recorded)	(minimum of on (A1) (A1) (ble (A2)) (B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial Intelated Concave (B5: sent? Ye ent? Ye fringe)	nagery (B7) Surface (B8) s No s No s No	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in pring well, aerial	ined Leave duna (B13) dic Plants (I Sulfide Odd Rhizosphere of Reduced in Reduction Surface (C Well Data (I Dalain in Ren Ches):	B14) or (C1) es on Livi d Iron (C4 n in Tilled C7) D9) narks)	4) d Soils (Co	Surfi Drai Cray Satu Sturi 6) Geo FAC	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (I Inundation Vis Sparsely Vege Field Observation Surface Water Prese Water Table Prese Saturation Present (includes capillary includes capillary includes capillary includes Recorded) Jpland swale, ti	(minimum of on (A1) (A1) (ble (A2)) (B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial Intelated Concave (B5: sent? Ye ent? Ye fringe)	nagery (B7) Surface (B8) s No s No s No	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in pring well, aerial	ined Leave duna (B13) dic Plants (I Sulfide Odd Rhizosphere of Reduced in Reduction Surface (C Well Data (I Dalain in Ren Ches):	B14) or (C1) es on Livi d Iron (C4 n in Tilled C7) D9) narks)	4) d Soils (Co	Surfi Drai Cray Satu Sturi 6) Geo FAC	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (I Inundation Vis Sparsely Vege Field Observation Surface Water Prese Water Table Prese Saturation Present (includes capillary (Describe Recorded)	(minimum of on (A1) (A1) (ble (A2)) (B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial Intelated Concave (B5: sent? Ye ent? Ye fringe)	nagery (B7) Surface (B8) s No s No s No	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in pring well, aerial	ined Leave duna (B13) dic Plants (I Sulfide Odd Rhizosphere of Reduced in Reduction Surface (C Well Data (I Dalain in Ren Ches):	B14) or (C1) es on Livi d Iron (C4 n in Tilled C7) D9) narks)	4) d Soils (Co	Surfi Drai Cray Satu Sturi 6) Geo FAC	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
	Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Inundation Vis Sparsely Vege Field Observation Surface Water Prese Water Table Prese Saturation Present (includes capillary includes capillary includes Recorded) Jpland swale, ti	(minimum of on (A1) (A1) (ble (A2)) (B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial Intelated Concave (B5: sent? Ye ent? Ye fringe)	nagery (B7) Surface (B8) s No s No s No	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in pring well, aerial	ined Leave duna (B13) dic Plants (I Sulfide Odd Rhizosphere of Reduced in Reduction Surface (C Well Data (I Dalain in Ren Ches):	B14) or (C1) es on Livi d Iron (C4 n in Tilled C7) D9) narks)	4) d Soils (Co	Surfi Drai Cray Satu Sturi 6) Geo FAC	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)

Project/Site: Byron Solar				City/Co	ounty	Dodge		S	ampling D	ate: 202	20-10-28
Applicant/Owner: EDF Renewables							State: Min	nesota S	ampling P	oint NW	/-09
nvestigator(s): David Kuhlmann				Section	n, To	wnship, Ra	nge: Section 13	3, T 106N	I, R16W		
andform (hillslope, terrace, etc.): Upla							(concave, convex				
Slope (%): 2-5 Lat: 43.989	4409			Long:	-92	.6831852	2	D	atum: NA	D 83	
Soil Map Unit Name: Clyde-Floyd c	omplex, 1	to 4 per	cent sl	opes	(M5	18B)	NWI	classificati	on: PEM	1B	
Are climatic / hydrologic conditions on th	ne site typica	I for this tir	ne of ye	ar? Ye	es	No	(If no, expl	lain in Rem	narks.)		
Are Vegetation, Soil, or I										s V	No
Are Vegetation, Soil, or							eded, explain any				
SUMMARY OF FINDINGS - A											ires, etc.
Hydrophytic Vegetation Present?	Yes	No					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Hydric Soil Present?		No_			Is th	e Sampled					
Wetland Hydrology Present?		No_		-1,0	with	in a Wetlar	nd? Ye	es	No	_	
Remarks											
Dry swale with tile intak	ce pres	ent, hy	drolo	gy I	ike	ly remo	oved				
VEGETATION – Use scientific r	amon of	alanta									
VEGETATION - Ose scientific i	lames of	9-5	bsolute	Domi	nant	Indicator	Dominance Te	et worken	not:		
Tree Stratum (Plot size: 30 ft r)					Status	Number of Dom				
1.							That Are OBL, I				(A)
2					_		Total Number o	f Dominan	r		
3				_	_		Species Across				(B)
4				_	_		Percent of Dom	inant Spec	cies		
5		_	_	-			That Are OBL,			0	(A/B)
Sapling/Shrub Stratum (Plot size: 15	5 ft r	N 1-		= Tota	I Cov	/er	Prevalence Inc	lex works	neet:		
1							Total % Co	Section 2 Court		ultiply by	
2.						-	OBL species		x1=		
3							FACW species				
4,							FAC species	95		285	
5.							FACU species	0	x 4 =	0	
A. T. Creek				= Tota	l Cov	/er	UPL species	0	_ x 5 =	0	
Herb Stratum (Plot size: 5 ft r))5	,	,	FAC	Column Totals:	100	(A)	295	(B)
2 Phalaris arundinacea				_	_	FACW	Drovalona	e Index =	D/A - 3	0	
-				_	_	FACVV	Hydrophytic V	. 4	7 10 10 10 10 10 10 10 10 10 10 10 10 10		_
3				-			1 - Rapid T				,
4				-	_		2 - Domina	Account to the		egetation	
5				-			✓ 3 - Prevale				
6				-	_		4 - Morpho			Provide s	supporting
7				_	_	-		Remarks o			
9,				-	_		Problemati	c Hydrophy	tic Vegeta	ation' (Ex	plain)
10.						_					
Woody Vine Stratum (Plot size: 30 f			00%	= Tota	l Cov	/er	¹ Indicators of hy be present, unle				gy must
1		-/-					Unidea a basi's				
175				-			Hydrophytic Vegetation				
2				-	_			441	V		
2.				= Tota	Cov	er	Present?	Yes_		lo	_

Depth Mat			Redox Featur				45.4
(inches) Color (mois		Color (moi		Type ¹	Loc²	Texture	Remarks
0 - 24 10YR 2/1	95	10YR 3/4	5	<u>C</u>	M	Clay	
		5					
-							
- 30							
		-					
	_	-		-	_		
		1			_		
					-		
Type: C=Concentration, D=	Depletion, RI	M=Reduced Mat	rix, MS=Maske	ed Sand G	ains.		L=Pore Lining, M=Matrix.
lydric Soil Indicators:							Problematic Hydric Soils ³ :
_ Histosol (A1)			andy Gleyed M				irie Redox (A16)
Histic Epipedon (A2) Black Histic (A3)			andy Redox (S tripped Matrix			Dark Surfa	ace (57) anese Masses (F12)
Hydrogen Sulfide (A4)			oamy Mucky M	the second second			low Dark Surface (TF12)
Stratified Layers (A5)			oamy Gleyed N				plain in Remarks)
2 cm Muck (A10)			epleted Matrix				A CONTRACTOR OF THE PARTY OF TH
Depleted Below Dark St	and the same of th	<u>✓</u> R	edox Dark Sur	face (F6)		127.7	
Thick Dark Surface (A12			epleted Dark S)		hydrophytic vegetation and
Sandy Mucky Mineral (S		R	edox Depressi	ons (F8)			drology must be present,
5 cm Mucky Peat or Pea						unless dis	turbed or problematic.
Restrictive Layer (if observ	ea):						
Type:		_				Hydric Soil Pre	esent? Yes No
Danth (inchas):							
Depth (inches):Remarks:							
Remarks:							
Remarks: YDROLOGY	ors:						
Remarks: YDROLOGY Vetland Hydrology Indicat		wired check all	hat apply)			Secondary	Indicators (minimum of two require
Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum				ves (B9)			Cal Santana de la companya
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Wat	er-Stained Lea			Surface	Soil Cracks (B6)
YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Wat Aqu	er-Stained Lea atic Fauna (B1	3)		Surface Drainag	Soil Cracks (B6) ge Patterns (B10)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Wat Aqu True	er-Stained Lea atic Fauna (B1 Aquatic Plant	3) s (B14)		Surface Drainag Dry-Sea	e Soil Cracks (B6) ge Patterns (B10) gson Water Table (C2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is req	Wat Aqu True Hyd	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (3) s (B14) Odor (C1)	ving Roots	Surface Drainag Dry-Sea Crayfisl	e Soil Cracks (B6) ge Patterns (B10) gson Water Table (C2) gh Burrows (C8)
YDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	of one is req	Wat Aqu True Hyd Oxio	er-Stained Lea atic Fauna (B1 Aquatic Plant	3) s (B14) Odor (C1) eres on Li	1000	Surface Drainag Dry-Sea Crayfisl s (C3) Saturat	Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is req	Wat Aqu True Hyd Oxic Pres	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph	3) s (B14) Odor (C1) eres on Liv ced Iron (C	4)	Surface Surface Drainag Dry-See Crayfisl (C3) Saturat Stunted	e Soil Cracks (B6) ge Patterns (B10) gson Water Table (C2) gh Burrows (C8)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is req	Wat Aqu True Hyd Oxio Pres Rec	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C	4)	Surface Drainag Dry-Sea Crayfisl s (C3) Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) for Stressed Plants (D1)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one is req	Wat Aqu True Hyd Oxic Pres Rec Thir	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph sence of Reducent Iron Reducent	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Surface Drainag Dry-Sea Crayfisl s (C3) Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) gh Burrows (C8) gion Visible on Aerial Imagery (C9) grown of the Stressed Plants (D1) grown of the Soil of the Soi
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one is req	Wat Aqu True Hyd Oxio Pres Rec Thir (B7) Gau	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (lized Rhizosph sence of Reduc ent Iron Reduc Muck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfisl s (C3) Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) gh Burrows (C8) gion Visible on Aerial Imagery (C9) grown of the Stressed Plants (D1) grown of the Soil of the Soi
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor	of one is req	Wat Aqu True Hyd Oxio Pres Rec Thir (B7) Gau	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (lized Rhizosph sence of Reduc ent Iron Reduc Muck Surface ge or Well Dat	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfisl s (C3) Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) gh Burrows (C8) gion Visible on Aerial Imagery (C9) grown or Stressed Plants (D1) grown of the control of the c
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations:	of one is req rial Imagery (cave Surface	Wat Aqu True Hyd Oxio Pres Rec Thir (B7) Gau	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc Muck Surface ge or Well Dat er (Explain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfisl s (C3) Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) gh Burrows (C8) gion Visible on Aerial Imagery (C9) grown or Stressed Plants (D1) grown of the control of the c
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations:	of one is req rial Imagery (cave Surface		er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc Muck Surface ge or Well Dat er (Explain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfisl s (C3) Saturat Stunted 66) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) I or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	rial Imagery (cave Surface Yes Yes Yes	Wat Aqu True Hyd Oxic Pres Rec Thir (B7) Gau e (B8) Othe No De No De	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc Muck Surface ge or Well Dat er (Explain in R oth (inches): oth (inches): oth (inches):	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfisl Stunted Stunted FAC-Nea	e Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) in Burrows (C8) gion Visible on Aerial Imagery (C9) gior Stressed Plants (D1) rphic Position (D2) geutral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	rial Imagery (cave Surface Yes Yes Yes eam gauge, r	Wat	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduce ent Iron Reduce Muck Surface ge or Well Dat er (Explain in Re oth (inches): oth (inches): aerial photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) demarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfisl Stunted Stunted FAC-Nea	e Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) in Burrows (C8) gion Visible on Aerial Imagery (C9) gior Stressed Plants (D1) graphic Position (D2) geutral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	rial Imagery (cave Surface Yes Yes Yes eam gauge, r	Wat	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduce ent Iron Reduce Muck Surface ge or Well Dat er (Explain in Re oth (inches): oth (inches): aerial photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) demarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfisl Stunted Stunted FAC-Nea	ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) autral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	rial Imagery (cave Surface Yes Yes Yes eam gauge, r	Wat	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (dized Rhizosph sence of Reduce ent Iron Reduce Muck Surface ge or Well Dat er (Explain in Re oth (inches): oth (inches): aerial photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) demarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfisl Stunted Stunted FAC-Nea	e Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) in Burrows (C8) gion Visible on Aerial Imagery (C9) gior Stressed Plants (D1) graphic Position (D2) geutral Test (D5)

Project/Site: Byron Solar		City/County	Douge		Sampling Date: 2020-10-28
Applicant/Owner: EDF Renewables					Sampling Point: NW-10
Investigator(s): David Kuhlmann		Section, To	wnship, Ra	nge: Section 13, T106	6N, R16W
Landform (hillslope, terrace, etc.): Upland, Hillslope			Local relief	(concave, convex, none):	Convex
Slope (%): 10-15 Lat: 43.991895		Long: -92	.686572		Datum: NAD 83
Soil Map Unit Name: Nasset-Winneshiek complex, 12 to					ation: None
Are climatic / hydrologic conditions on the site typical for	this time of ye	ar? Yes _	V No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology					
Are Vegetation, Soil, or Hydrology				eeded, explain any answer	
SUMMARY OF FINDINGS - Attach site ma				ocations, transects	important features, etc.
Hydrophytic Vegetation Present? Yes	No	100			
	No	is th	e Sample		
Wetland Hydrology Present? Yes	No	with	in a Wetla	nd? Yes	
Remarks					
Side of steep hill slope					
VEGETATION – Use scientific names of plan	nts.		- 1		
Tree Stratum (Plot size:30 ft r)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test works	
1 Acer negundo	75	V V	FAC	Number of Dominant Sp That Are OBL, FACW, of	
2				A CONTRACTOR OF THE PARTY OF TH	4.4
3.				Total Number of Domina Species Across All Strat	
4.					
5				Percent of Dominant Sp That Are OBL, FACW, of	
15 ft r	75%	= Total Co	ver		
Sapling/Shrub Stratum (Plot size 15 ft r 1. Acer negundo	50	~	FAC	Prevalence Index work	
		<u> </u>		Total % Cover of: OBL species 0	x = 0
3.				FACW species 0	x 2 = 0
4.		-	_	FAC species 155	x 3 = 465
5				FACU species 70	x 4 = 280
	50%	= Total Co	/er	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 225	(A) 745 (B)
1. Ambrosia trifida	30		FAC		
2, Arctium minus	30		FACU	Prevalence Index	part of the same o
3. Rubus idaeus	$-\frac{30}{40}$		FACU	Hydrophytic Vegetatio	
4. Taraxacum officinale	10		FACU		ydrophytic Vegetation
5	_		_	✓ 2 - Dominance Tes 3 - Prevalence Inde	U.S. Disk.
6		-			x is \$3.0 daptations (Provide supporting
7			-	data in Remarks	or on a separate sheet)
8		_	_	Problematic Hydrop	hytic Vegetation¹ (Explain)
9, 10.			_		
Woody Vine Stratum (Plot size: 30 ft r)		= Total Co	ver	¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must rbed or problematic.
1				Hydrophytic	
2.				Vegetation	
		= Total Co	ver	Present? Yes	No

(inches) Color (moist) % 0 - 40 10YR 2/1 100	Color (moist) % Type¹ Lo	oc ² Texture Remarks
0 - 40 10YR 2/1 100 - -		1300000
		Silt Loam
	70 71 5 3 7	
Type: C=Concentration D=Depletion RM:	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
ydric Soil Indicators:	reduced matrix, mo-masked band Grans.	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3)	Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
_ 2 cm Muck (A10)	Depleted Matrix (F3)	
_ Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Indicators of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
_ 5 cm Mucky Peat or Peat (S3)		unless disturbed or problematic.
estrictive Layer (if observed):		
Type:	_	Hydric Soil Present? Yes No
Depth (inches):		
3 horizon could not be rea	ched, A12 assumed	
	ched, A12 assumed	
/DROLOGY	ched, A12 assumed	
YDROLOGY Vetland Hydrology Indicators:		
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is requir	red; check all that apply)	
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is requir Surface Water (A1)	red; check all that apply) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
YDROLOGY Vetland Hydrology Indicators: Vrimary Indicators (minimum of one is requir Surface Water (A1) High Water Table (A2)	red: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requir Surface Water (A1) High Water Table (A2) Saturation (A3)	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14)	Surface Soil Cracks (B6)Drainage Patterns (B10)Dry-Season Water Table (C2)
POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY Vetland Hydrology Indicators: Vrimary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living B	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9)
VDROLOGY Vetland Hydrology Indicators: Vimary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living B	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
YDROLOGY Vetland Hydrology Indicators: Imary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Face of Reduced Iron (C4) Recent Iron Reduction in Tilled So	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Fauna (C4) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
YDROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required to the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Becent Iron Reduction in Tilled Soon Thin Muck Surface (C7) Gauge or Well Data (D9)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Trimary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B7)	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Becent Iron Reduction in Tilled Soon Thin Muck Surface (C7) Gauge or Well Data (D9)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B7) Irield Observations:	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Bacteria (C4) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sociation (C7) Thin Muck Surface (C7) To Gauge or Well Data (D9) B8) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B7) Indicated Water Present? Yes Indicators:	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Feresence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required by the second of the secon	red: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Fersence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B7) Field Observations: Surface Water Present? Valer Table Present? Yes I	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Feresence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required by the state of the s	red: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Fersence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required by the state of the s	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Factor (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) V Depth (inches): No V Depth (inches):	Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required by the state of the s	red; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Factor (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) V Depth (inches): No V Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No

Project/Site: Byron Solar		(City/Coun	ty: Dodge		S	ampling Date:	2020-10-29
Applicant/Owner: EDF Renewables					State: Mir		ampling Point:	
			Section, T	ownship, Rai	nge: Section 1			4
Landform (hillslope, terrace, etc.): Upland					(concave, convex			
Slope (%): 2-5 Lat: 43.981821				2.694136			atum: NAD 8	33
Soil Map Unit Name: Kasson silt Ioam, 1					NWI			
Are climatic / hydrologic conditions on the site								
Are Vegetation, Soil, or Hydro								No. V
Are Vegetation, Soil, or Hydro					eded, explain an			
SUMMARY OF FINDINGS – Attac	h site map sh	nowing	sampli	ng point l	ocations, tran	isects, ii	mportant f	eatures, etc
Hydrophytic Vegetation Present?	es No	/		4 170	433			
	es No			the Sampled				
	es No		Wi	thin a Wetlan	id? Ye	es	No	
Remarks:								
"Signatures" in desktop re	view deter	rmine	d to b	e rock p	ile during 1	field in	vestigat	ion.
VEGETATION – Use scientific name	es of plants.							
20 ft r		Absolute		nt Indicator	Dominance Te	st worksh	eet:	
Tree Stratum (Plot size: 30 ft r				? Status	Number of Don			74.5
1					That Are OBL,	FACVV, or h	FAC: 0	(A)
2					Total Number of		_	(5)
3			_	-	Species Across	All Strata:	0	(B)
4					Percent of Dom			0.000
5			= Total C	over	That Are OBL,	FACW, or F	FAC: U	(A/B)
Sapling/Shrub Stratum (Plot size 15 ft r			- Total C	over	Prevalence Inc	lex works	neet:	
					Total % Co	ver of:	Multir	oly by:
1					10141 70 00			
2					OBL species	0	x 1 = 0	
10.7					14	0	$\begin{array}{c} x 1 = \underline{0} \\ x 2 = \underline{0} \end{array}$	
2.				\equiv	OBL species FACW species FAC species	0 0	$\begin{array}{c} x = 0 \\ x = 0 \\ x = 0 \\ x = 0 \end{array}$	
2. 3.				\equiv	OBL species FACW species	0 0	x 1 = 0 $x 2 = 0$ $x 3 = 0$ $x 4 = 0$	
2			= Total C	over	OBL species FACW species FAC species FACU species UPL species	0 0 0 0	x 1 = 0 $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$	
2				over	OBL species FACW species FAC species FACU species	0 0 0 0	x 1 = 0 $x 2 = 0$ $x 3 = 0$ $x 4 = 0$	
2	_)		= Total C	over	OBL species FACW species FAC species FACU species UPL species Column Totals:	0 0 0 0 0 0	x 1 = 0 $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ (A)	
2	_}		= Total C	over	OBL species FACW species FAC species FACU species UPL species Column Totals:	0 0 0 0 0 0 0	x 1 = 0 $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ (A) $B/A = 0.0$	
2	_)		= Total C	over	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence	0 0 0 0 0 0 0	x 1 = 0 $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $A = 0$ $A = 0.0$ Indicators:	(B)
2	_)		= Total C	over	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalenc Hydrophytic V 1 - Rapid T	0 0 0 0 0 0 0 0 ele Index =	x 1 = 0 $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators:	(B)
2	_}		= Total C	over	OBL species FACW species FACU species UPL species Column Totals: Prevalenc Hydrophytic V 1 - Rapid T 2 - Domina	0 0 0 0 0 0 0 el Index =	x 1 = 0 $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Veges	(B)
2	_}		= Total C	over	OBL species FACW species FACU species UPL species Column Totals: Prevalence Hydrophytic V 1 - Rapid T 2 - Domina 3 - Prevale	0 0 0 0 0 0 0 ce Index = egetation lest for Hydronce Test is noe Index i	$x 1 = 0$ $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Veges $x > 50\%$ $x \le 3.0^4$	(B)
2	_)		= Total C	over	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalenc Hydrophytic V1 - Rapid T2 - Domina3 - Prevale4 - Morpho data in	0 0 0 0 0 0 0 ce Index = egetation If est for Hydrice Test is noe Index i logical Ada	$x 1 = 0$ $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Vege (a) > 50% $x \le 3.0^{1}$ Explanations (Prophytic Or on a separation)	(B) etation vide supporting e sheet)
2	_)		= Total C	over	OBL species FACW species FACU species UPL species Column Totals: Prevalence Hydrophytic V1 - Rapid T2 - Domina3 - Prevale4 - Morpho	0 0 0 0 0 0 0 ce Index = egetation If est for Hydrice Test is noe Index i logical Ada	$x 1 = 0$ $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Vege (a) > 50% $x \le 3.0^{1}$ Explanations (Prophytic Or on a separation)	(B) etation vide supporting e sheet)
2	_)		= Total C	over	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalenc Hydrophytic V1 - Rapid T2 - Domina3 - Prevale4 - Morpho data in	0 0 0 0 0 0 0 ce Index = egetation If est for Hydrice Test is noe Index i logical Ada	$x 1 = 0$ $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Vege (a) > 50% $x \le 3.0^{1}$ Explanations (Prophytic Or on a separation)	(B) etation vide supporting e sheet)
2	_)		= Total C		OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalenc Hydrophytic V1 - Rapid T2 - Domina3 - Prevale4 - Morpho data in	0 0 0 0 0 0 ce Index = egetation lest for Hydroce Test is noce Index is logical Ada Remarks on the Hydrophy	$x 1 = 0$ $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Veges $x > 50\%$ $x \le 3.0^{1}$ Poptations (Prophytic Veges) The contains the contains of the contain	etation vide supporting e sheet) 1 (Explain)
2			= Total C		OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalenc Hydrophytic V 1 - Rapid T 2 - Domina 3 - Prevale 4 - Morpho data in I Problemati	0 0 0 0 0 0 ce Index = egetation lest for Hydroce Test is noce Index is logical Ada Remarks on the Hydrophy	$x 1 = 0$ $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Veges $x > 50\%$ $x \le 3.0^{1}$ Poptations (Prophytic Veges) The contains the contains of the contain	etation vide supporting e sheet) 1 (Explain)
2	_)		= Total C		OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalenc Hydrophytic V 1 - Rapid T 2 - Domina 3 - Prevale 4 - Morpho data in I Problemati	0 0 0 0 0 0 ce Index = egetation I fest for Hyd nnce Test is nnce Index i logical Ada Remarks or c Hydrophy ydric soil ar ess disturbe	$x 1 = \frac{0}{0}$ $x 2 = \frac{0}{0}$ $x 3 = \frac{0}{0}$ $x 4 = \frac{0}{0}$ $x 5 = \frac{0}{0}$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Veges $x > 50\%$ $x \le 3.0^{1}$ Explaining the properties of the explanation of the	etation vide supporting e sheet) ' (Explain) drology must atic.
2	_)		= Total C	over	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalenc Hydrophytic V 1 - Rapid T 2 - Domina 3 - Prevale 4 - Morpho data in I Problemati Indicators of his present, unlice Hydrophytic	0 0 0 0 0 0 ce Index = egetation I fest for Hyd nnce Test is nnce Index i logical Ada Remarks or c Hydrophy ydric soil ar ess disturbe	$x 1 = 0$ $x 2 = 0$ $x 3 = 0$ $x 4 = 0$ $x 5 = 0$ $(A) 0$ B/A = 0.0 Indicators: Prophytic Veges $x > 50\%$ $x \le 3.0^{1}$ Poptations (Prophytic Veges) The contains the contains of the contain	etation vide supporting e sheet) ' (Explain) drology must atic.

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc²	Texture Remarks
	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators:	
Histosol (A1) Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6)	Dark Surface (S7) Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10) Depleted Matrix (F3)	
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	
Thick Dark Surface (A12) Depleted Dark Surface (F7)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)	unless disturbed or problematic
Restrictive Layer (if observed):	
Type: Rock pile	Hydric Soil Present? Yes No
Depth (inches): 0	Tryana don't resent.
YDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7)	Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations:	Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches):	Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetlanding Saturation Present? Yes No Depth (inches): Wetlanding Saturation Present? Yes No Depth (inches):	Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) and Hydrology Present? Yes No
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetla (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) S) Geomorphic Position (D2) FAC-Neutral Test (D5) and Hydrology Present? Yes No
Saturation (A3)	Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) S) Geomorphic Position (D2) FAC-Neutral Test (D5) and Hydrology Present? Yes No
Saturation (A3)	Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) S) Geomorphic Position (D2) FAC-Neutral Test (D5) and Hydrology Present? Yes No

Project/Site: Byron Solar		City/County: Dodge	Sampling Date: 2020-10-29
Applicant/Owner: EDF Renewables			State: Minnesota Sampling Point: NW-12
nvestigator(s): David Kuhlmann		Section, Township, Ra	nge: Section 13, T106N, R16W
			(concave, convex, none): Concave
Slope (%): 2-5 Lat: 43.9846497		Long: -92.6972722	2 Datum: NAD 83
Soil Map Unit Name: Clyde-Floyd complex, 1 to	4 percent sl	opes (M518B)	NWI classification: None
Are climatic / hydrologic conditions on the site typical fo	r this time of ye	ar? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally pro	oblematic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site m	ap showing	sampling point I	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes		The second	
Hydric Soil Present? Yes		Is the Sampled	
Wetland Hydrology Present? Yes	No	within a Wetlan	nd? Yes No
Remarks:			
/EGETATION – Use scientific names of pla	nts.		
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1.		Species: Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.			7,000
3.			Total Number of Dominant Species Across All Strata: 1 (B)
4.			No. of the last of
5			Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
15 ft r		= Total Cover	
Sapling/Shrub Stratum (Plot size 15 ft r			Prevalence Index worksheet:
1			Total % Cover of: Multiply by: OBL species 0 x 1 = 0
2		-	FACW species 0 x 2 = 0
3			FAC species 10 x 3 = 30
5.			FACU species 90 x 4 = 360
		= Total Cover	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)		4 FACU	Column Totals: 100 (A) 390 (B)
1. Bromus inermis	90	FACU	2.0
2, Ambrosia trifida	10	FAC	Prevalence Index = B/A = 3.9
3			Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
5			3 - Prevalence Index is ≤3.01
6			4 - Morphological Adaptations ¹ (Provide supporting
7 8		-	data in Remarks or on a separate sheet)
9,			Problematic Hydrophytic Vegetation¹ (Explain)
10.			
		= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft r)			be present, unless disturbed of problematic.
1.	-		Hydrophytic
(*)			
2.			Vegetation Present? Yes No

(inches) Color (moist) 0 - 24 10YR 2/2	95 1	Color (moist) OYR 3/4	5	C C	Loc ²	Texture	Remarks
Type: C=Concentration, D=De	95 1	0YR 3/4	5	<u>C</u>	М		Nemarks
					_	Silt Loam	
					_		
The same of the sa	pletion, RM=R	educed Matrix,	MS=Maske	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
ydric Soil Indicators:						Indicators for P	oblematic Hydric Soils ³ :
_ Histosol (A1)		Sand	dy Gleyed M	atrix (S4)		Coast Prairie	Redox (A16)
Histic Epipedon (A2)		Sand	dy Redox (S	5)		Dark Surface	
_ Black Histic (A3)			ped Matrix (the second secon			ese Masses (F12)
_ Hydrogen Sulfide (A4)			ny Mucky Mi				Dark Surface (TF12)
_ Stratified Layers (A5)			ny Gleyed M			Other (Expla	in in Remarks)
_ 2 cm Muck (A10)	(011)		leted Matrix (ox Dark Surf				
 Depleted Below Dark Surface Thick Dark Surface (A12) 	ce (A11)		ox Dark Sun leted Dark Si		Y	3Indicators of hy	drophytic vegetation and
Sandy Mucky Mineral (S1)			ox Depression	The second second second	,		ology must be present,
5 cm Mucky Peat or Peat (S	33)		o., 2 op. 5 oo.	(, -)			bed or problematic
estrictive Layer (if observed)						1	# - 5 - C 10 T 30 W 25 W 2
Type:						1	
Depth (inches):						Hydric Soil Prese	ent? Yes No
YDROLOGY							
letland Hydrology Indicators							
		i check all tha	t apply)			Secondary Ind	icators (minimum of two require
rimary Indicators (minimum of			LA WILLIAM DA A HA	/es (RQ)		- 10 mm - 10 mm - 10 mm	icators (minimum of two require
rimary Indicators (minimum of Surface Water (A1)		Water-	Stained Leav	0.00		Surface S	oil Cracks (B6)
rimary Indicators (minimum of Surface Water (A1) High Water Table (A2)		Water-	Stained Leav Fauna (B13	3)		Surface S Drainage	oil Cracks (B6) Patterns (B10)
rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)		Water Aquatio True A	Stained Leav Fauna (B13 quatic Plants	3) s (B14)		Surface S Drainage Dry-Seaso	oil Cracks (B6) Patterns (B10) on Water Table (C2)
rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Water- Aquation True A	Stained Leav Fauna (B13 quatic Plants gen Sulfide O	3) s (B14) odor (C1)	vina Roots (Surface S Drainage Dry-Seaso Crayfish E	oil Cracks (B6) Patterns (B10) on Water Table (C2) surrows (C8)
rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Water- Aquatio True A Hydrog Oxidize	Stained Leav c Fauna (B13 quatic Plants gen Sulfide O ed Rhizosphe	3) s (B14) odor (C1) eres on Liv		Surface S Drainage Dry-Seaso Crayfish E C3) Saturation	oil Cracks (B6) Patterns (B10) on Water Table (C2) eurrows (C8) Visible on Aerial Imagery (C9)
rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Water- Aquatio True A Hydrog Oxidize	Stained Leaver Fauna (B13 quatic Plants gen Sulfide Oed Rhizosphere of Reduce	3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Surface S Drainage Dry-Sease Crayfish E C3) Saturation	oil Cracks (B6) Patterns (B10) on Water Table (C2) furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
rimary Indicators (minimum of a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Water- Aquation True Ai Hydrog Oxidize Presen Recent	Stained Leaver Fauna (B13 quatic Plants gen Sulfide Oed Rhizosphelice of Reduct Iron Reduct	B) (B14) (dor (C1) eres on Lived Iron (C	4)	Surface S Drainage Dry-Seaso Crayfish E Saturation Stunted or	oil Cracks (B6) Patterns (B10) on Water Table (C2) durrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2)
Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	one is required	Water- Aquatic True Ai Hydrog Oxidize Presen Recent Thin M	Stained Leaver Fauna (B13 quatic Plants gen Sulfide Oed Rhizosphere of Reduce	B) (B14) (dor (C1) eres on Liv ed Iron (C tion in Tille (C7)	4)	Surface S Drainage Dry-Seaso Crayfish E Saturation Stunted or	oil Cracks (B6) Patterns (B10) on Water Table (C2) furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	one is required	Water- Aquatic True Ai Hydrog Oxidize Presen Recent Thin M Gauge	Stained Leaver Fauna (B13 quatic Plants gen Sulfide Oed Rhizospherice of Reducturck Surface	B) s (B14) dor (C1) eres on Liv ed Iron (C ion in Tille (C7) a (D9)	4)	Surface S Drainage Dry-Seaso Crayfish E Saturation Stunted or	oil Cracks (B6) Patterns (B10) on Water Table (C2) durrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2)
Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegelated Concave	one is required	Water- Aquatic True Ai Hydrog Oxidize Presen Recent Thin M Gauge	Stained Leaver Fauna (B13 quatic Plants gen Sulfide Oed Rhizospherice of Reduct Iron Reduct ock Surface or Well Data	B) s (B14) dor (C1) eres on Liv ed Iron (C ion in Tille (C7) a (D9)	4)	Surface S Drainage Dry-Seaso Crayfish E Saturation Stunted or	oil Cracks (B6) Patterns (B10) on Water Table (C2) durrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2)
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Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegetated Concaviceld Observations: Surface Water Present? Vater Table Present?	Imagery (B7) /e Surface (B8 Yes No Yes No	Water- Aquatic True Ai Hydrog Oxidize Presen Recent Thin M Gauge Other (Depth Depth	Stained Leaver Fauna (B13 quatic Plants gen Sulfide O ed Rhizospherice of Reduct Iron Reduct uck Surface or Well Data Explain in Refunction (inches): (i	B) s (B14) odor (C1) eres on Liv ed Iron (C ion in Tille (C7) a (D9) emarks)	4) d Soils (C6	Surface S Drainage Dry-Seaso Crayfish E (C3) Saturation Stunted or FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2) Furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegelated Concavited Observations: Surface Water Present? Vater Table Present? Saturation Present? Security Present? Security Present? Security Present? Security Present? Security Present? Security Present? Security Present? Security Present? Security Present? Security Present? Security Present? Security Present P	Imagery (B7) /e Surface (B8 Yes No Yes No Yes No n gauge, moni	Water- Aquation True Ai Hydrog Oxidize Present Recent Thin M Gauge Other (Depth Depth Depth Loring well, aer	Stained Leaver Fauna (B13 quatic Plants gen Sulfide Oed Rhizospherice of Reduct Iron Reduct uck Surface or Well Data Explain in References):	(B14) (B14) (B14) (B14) (B14) (B14) (B15)	4) d Soils (C6	Surface S Drainage Dry-Seaso Crayfish E (C3) Saturation Stunted or FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2) Furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5)
Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Sparsely Vegelated Concavitield Observations: Surface Water Present? Vater Table Present?	Imagery (B7) /e Surface (B8 Yes No Yes No Yes No n gauge, moni	Water- Aquation True Ai Hydrog Oxidize Present Recent Thin M Gauge Other (Depth Depth Depth Loring well, aer	Stained Leaver Fauna (B13 quatic Plants gen Sulfide Oed Rhizospherice of Reduct Iron Reduct uck Surface or Well Data Explain in References):	(B14) (B14) (B14) (B14) (B14) (B14) (B15)	4) d Soils (C6	Surface S Drainage Dry-Seaso Crayfish E (C3) Saturation Stunted or FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2) Furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5)

Project/Site: Byron Solar			C	ity/County: Dodge		Sampling Date: 2020-10-3
Applicant/Owner: EDF Renewable	es				State: Minnesota	Sampling Point: NW-13 A
Investigator(s): David Kuhlmann			S	Section, Township, Ra	ange: Section 12, T106	SN, R16W
Landform (hillslope, terrace, etc.): De					(concave, convex, none):	
Slope (%): 0-2 Lat, 43.99				ong: -92.697947		
Soil Map Unit Name: Barremills silt loa						
Are climatic / hydrologic conditions on					- I have been been been been been been been be	V - 25 / 2 / 2
Are Vegetation, Soil,						
Are Vegetation, Soil, c					eeded, explain any answer	
SUMMARY OF FINDINGS -	Attach site	map show	wing s	sampling point	locations, transects	, important features, et
Hydrophytic Vegetation Present?		140	_	Ca. 74 - 75		
Hydric Soil Present?		NO	_	is the Sample		W /
Wetland Hydrology Present?	Yes	No		within a Wetla	na? Yes	No
Remarks:						
Swale surrounding road cu	ilvert, likely	receive	s exc	ess overland fl	ow during high pre	cipitation rain events.
	14.14 7.1					
VEGETATION – Use scientific	names of p	lants.		Sec. 10.		
Tree Stratum (Plot size: 30 ft r				Dominant Indicator Species? Status	Dominance Test work	
1.		-70 C	over	Species? Status	Number of Dominant Sp That Are OBL, FACW, of	
2						
3.					Total Number of Domin Species Across All Stra	
4.						
5					Percent of Dominant Sp That Are OBL, FACW, of	
A STATE OF THE STA	15 ft r			Total Cover		
Sapling/Shrub Stratum (Plot size		_)			Prevalence Index work	
1.						$\begin{array}{c} \text{Multiply by:} \\ \text{x 1} = 0 \end{array}$
2			_		FACW species 0	x 2 = 0
3					FAC species 0	x 3 = 0
5					FACU species 100	x 4 = 400
A				Total Cover	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r)	40			Column Totals: 100	(A) 400 (B)
1. Bromus inermis		10	_	✓ FACU	1 C. 1 C.	10
2,					Prevalence Index	Service and the service and th
3					Hydrophytic Vegetatio	Indicators: Hydrophytic Vegetation
4			_		2 - Dominance Tes	
5			_		3 - Prevalence Inde	
6						daptations (Provide supportin
7 8			_		data in Remarks	or on a separate sheet)
9,					Problematic Hydron	phytic Vegetation (Explain)
10.					A STATE OF THE STATE OF	
			0%	Total Cover	¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must
Woody Vine Stratum (Plot size: 30) ft r)			be present, unless distu	nued of problematic.
1.					Hydrophytic	
					Vegetation	
2.		_		Total Cover		s No

		Color (moist) IOYR 3/4 IOYR 5/8	2 25	C C	_Loc2	Texture	Remarks
							0.7700.777
8 - 24 10YR 4/2	75 <u> </u>	IOYR 5/8	<u>25</u>	_	PL / M	Silt Loam	
				<u>C</u>	<u>M</u>	Clay	
				=			
					_	2, ,,	
Type: C=Concentration, D=Depleti lydric Soil Indicators:	tion, RM=F	Reduced Matrix,	MS=Maske	d Sand Gr	rains.		PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
Histosol (A1)		Cons	v Cloudd M	ntriu (CA)			airie Redox (A16)
Histic Epipedon (A2)			y Gleyed M y Redox (S			Dark Sur	
Black Histic (A3)			ped Matrix (ganese Masses (F12)
Hydrogen Sulfide (A4)			y Mucky M	the second secon			llow Dark Surface (TF12)
Stratified Layers (A5)			y Gleyed N				oplain in Remarks)
2 cm Muck (A10)			eted Matrix				
Depleted Below Dark Surface ((A11)	✓ Redo	x Dark Sur	ace (F6)			
_ Thick Dark Surface (A12)			eted Dark S	The state of the s)		hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)		Redo	x Depressi	ons (F8)			ydrology must be present,
5 cm Mucky Peat or Peat (S3)						unless di	sturbed or problematic
Restrictive Layer (if observed):							
Type:		_				Hydric Soil Pr	resent? YesNo
Depth (inches):							
Remarks: Soils very dry, friable)	_					
Soils very dry, friable) 						
Soils very dry, friable	<u></u>						
Soils very dry, friable YDROLOGY Vetland Hydrology Indicators:		d∶ check all that	apply)			Secondary	Indicators (minimum of two require
Soils very dry, friable YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one				ves (B9)			Indicators (minimum of two require
Soils very dry, friable YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1)		Water-S	Stained Lea			Surfac	e Soil Cracks (B6)
Soils very dry, friable YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2)		Water-S Aquatic	Stained Lea Fauna (B1)	3)		Surfac Draina	e Soil Cracks (B6) ge Patterns (B10)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-8 Aquatic True Ad	Stained Lea Fauna (B1) juatic Plants	3) s (B14)		Surfac Draina Dry-Se	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Water-8 Aquatic True Ad Hydrog	Stained Lea Fauna (B1) Juatic Plants en Sulfide C	3) s (B14) odor (C1)	ving Roots	Surfac Draina Dry-Se Crayfis	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-8 Aquatic True Ac Hydroge Oxidize	Stained Lea Fauna (B1) Juatic Plants en Sulfide C d Rhizosph	3) s (B14) Odor (C1) eres on Liv	1000	Surfac Draina Dry-Se Crayfis (C3) Satura	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Water-8 Aquatic True Ac Hydrog Oxidize Presence	Stained Lea Fauna (B1) juatic Plants en Sulfide C d Rhizosph ce of Reduc	3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Surface Draina Dry-See Crayfis (C3) Satura Stunte	e Soil Cracks (B6) ige Patterns (B10) eason Water Table (C2) ish Burrows (C8) ition Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Water-S Aquatic True Ac Hydrog Oxidize Present	Stained Lea Fauna (B1) Juatic Plants en Sulfide C d Rhizosph	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stunte	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	e is require	Water-S Aquatic True Ac Hydrogo Oxidize Present Recent Thin Mo	Stained Lea Fauna (B1) juatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stunte	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ition Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	e is require	Water-S Aquatic True Ac Hydrogo Oxidize Present Recent Thin Mu	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stunte	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ition Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima	e is require	Water-S Aquatic True Ac Hydrogo Oxidize Present Recent Thin Mu	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Data	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stunte	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ition Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
VDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegelated Concave S Field Observations:	e is require agery (B7) Surface (B8	Water-S Aquatic True Ac Hydrog Oxidize Presenc Recent Thin Mc Gauge Other (I	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Data	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stunte	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ition Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sield Observations: Surface Water Present?	e is require lagery (B7) Surface (B8	Water-S Aquatic True Ac Hydrog Oxidize Presenc Recent Thin Mc Gauge Other (I	Stained Lea Fauna (B1) quatic Plants en Sulfide (d d Rhizosph ce of Reduction Iron Reduction lock Surface or Well Data Explain in R	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stunte	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ition Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Sield Observations: Surface Water Present? Ves Saturation Present? Yes	e is require sagery (B7) Surface (B8) s No	Water-S Aquatic True Ac Hydrog Oxidize Presenc Recent Thin Mc Gauge Other (I	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Data Explain in R (inches); (inches);	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4) ed Soils (Co	Surfac Draina Dry-Se Crayfis (C3) Satura Stunte Geome FAC-N	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ition Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes	e is require lagery (B7) Surface (B8 s No	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mu Gauge Other (I	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Data Explain in R (inches); (inches); (inches);	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (Co	Surface Draina Dry-Se Crayfis (C3) Satura Stunte FAC-N	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5)
Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Gield Observations: Surface Water Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves Staturation Present? Ves	e is require lagery (B7) Surface (B8 s No s No gauge, mon	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mc Gauge Other (I	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc lron Reduc uck Surface or Well Date explain in R (inches); (inches); al photos, p	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (Co	Surface Draina Dry-Se Crayfis (C3) Satura Stunte Geome FAC-N	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5)

Project/Site: Byron Solar			City/Coun	ty: Dodge		Sampling Date: 2020-10-30
Applicant/Owner: EDF Renewables			0.1			Sampling Point: NW-13 B
Investigator(s): David Kuhlmann			Section, 1	Township, Ra	nge: Section 12, T106	6N, R16W
Landform (hillslope, terrace, etc.): Depre					(concave, convex, none):	
Slope (%): 0-2 Lat: 43.99626	32		Long: -9	2.696982		Datum: NAD 83
Soil Map Unit Name: Barremills silt loam, d	rainageway,	1 to 5 percent slo	opes, occa	sionally flood	led (N578B) NWI classific	ation: None
Are climatic / hydrologic conditions on the	site typical fo	or this time of ye	ar? Yes	V No_	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hy	drology	significantly	disturbed	? Are	"Normal Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hy	drology	naturally pro	blematic?	(If ne	eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Atta	ch site m	ap showing	sampli	ng point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes_	No	religa	2 - T - T - T - T - T - T - T - T - T -	200	
Hydric Soil Present?	Yes			the Sampled		
	Yes	No	Wi	thin a Wetlar	nd? Yes	
Remarks:						
Grassy swale						
VEGETATION – Use scientific na	mes of pla	ints.		6		
Tree Stratum (Plot size: 30 ft r	-)	Absolute		nt Indicator ? Status	Dominance Test work	
1		% Cover	Species	Status	Number of Dominant Sp That Are OBL, FACW, of	
2.					A COLUMN TO THE REAL PROPERTY.	
3					Total Number of Domin Species Across All Stra	The state of the s
4.					Percent of Dominant Sp	pacies
5			-		That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size 15 ft	tr	. —	= Total C	over	Prevalence Index wor	ksheet:
1					Total % Cover of:	
2					OBL species 0	x 1 = 0
3.					FACW species 0	x 2 = 0
4,					FAC species 60	x 3 = 180
5			-		FACU species 30	x 4 = 120
Herb Stratum (Plot size: 5 ft r	1		= Total C	over	UPL species 0	$x = \frac{0}{300}$ (B)
1. Bromus inermis		30	~	FACU	Column Totals: 90	(A) 300 (B)
2, Panicum capillare		30	V	FAC	Prevalence Index	= B/A = 3.3
3. Setaria pumila		30	~	FAC	Hydrophytic Vegetation	on Indicators:
4						Hydrophytic Vegetation
5					✓ 2 - Dominance Tes	Control of the Contro
6			-		3 - Prevalence Inde	
7,				-		Adaptations ¹ (Provide supporting s or on a separate sheet)
8						phytic Vegetation (Explain)
9,						
10		000/	= Total C	nver		and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft i)		- (blaic	ovei	be present, unless distu	arbed or problematic.
1			-	-	Hydrophytic	
2				-	Vegetation Present? Yes	s No
			= Total C	over	16:	
Remarks: (Include photo numbers here		T-V-1 W-170712		1 10 20	4	

Color (moist)	Depth _	Matrix	A STATE	pth needed to docu Rec	lox Featur				22-27-24
Secondary Indicators Secondary Indicators	1-1-1-1		-		%	Type ¹	7.70		Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, Pydric Soil Indicators: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators (A15) Sandy Mucky Mineral (F1) Loamy Oleyed Matrix (F3) Depleted Below Dark Surface (A12) Topeleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Pearl or Peat (S3) Sandy Mucky Mineral (S1) Som Mucky Pearl or Peat (S3) Soils Very Grid Observed): Type: Depleting Indicators (F2) Depleting Hydric Soil Present? Yes No No No No No No No No No No	0 - 24	10YR 2/2	98	10YR 3/4	_ 2	<u>C</u>	PL / M	Silt Loam	
Histosol (A1)	8-24	10YR 4/2	75	10YR 5/8	25	С	<u>M</u>	Clay	
Mydric Soil Indicators:						-	_		
ydric Soil Indicators: Histosoi (A1) Histosoi (A2) Histosoi (A2) Histosoi (A2) Histosoi (A2) Black Histic (A3) Black Histic (A3) Hydrogen Sulfide (A4) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Moky Mineral (S1) Sondy Moky Mineral (S1) Wetland Hydrology Indicators (Indicators (I									
Histosol (A1)									
Histosol (A1)									
Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A3) Histos Epipedon (A2) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Dark Surface (A11) Depleted (Matrix (A10) Depleted Matrix (A10) Depleted Matrix (A10) Depleted Delow Dark Surface (A11) Depleted Delow Dark Surface (A12) Depleted Dark Surface (A12) Depleted Dark Surface (A12) Sandy Mucky Mineral (B1) Som Mucky Mineral (B1) Som Mucky Mineral (B1) Redox Depressions (F8) Hydric Soil Present? Yes No Depleted (Matrix (B1) No Depleted (Matrix (B1) No Depleted (Matrix (B1) No Depleted (Matrix (B1) No Depleted Dark Surface (B1) No Histosol (B1) No No Depleted Dark Surface (B1) No No No No No No No No No No No No No			pletion, RN	M=Reduced Matrix, M	/IS=Maske	d Sand G	ains.		
Haltic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Loarny Mucky Mineral (F1) Strattled Layers (A5) Loarny Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Service Layer (if observed): Type: Depth (inches): Benarks: Soils Very dry, friable Applicators (minimum of one is required: check all that apply) Surface Water (A1) Hydrogony Indicators (minimum of one is required: check all that apply) Surface Water (A1) Hydrogony Indicators (minimum of one is required: check all that apply) Surface Water (A1) Hydrogony Indicators (Minimum of two required: Check all that apply) Surface Water (A1) Hydrogony Indicators (Minimum of two required: Check all that apply) Surface Water (A1) Hydrogony Indicators (Minimum of two required: Check all that apply) Surface Water (A1) Hydrogony Indicators (Minimum of two required: Check all that apply) Surface Water (A1) Hydrogony Indicators (Minimum of two required: Check all that apply) Surface Water (A1) Hydrogony Indicators (Minimum of two required: Check all that apply) Surface Water (A1) Hydrogony Indicators (Minimum of two required: Check all that apply) Surface Water (A1) Hydrogony Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all that apply) Secondary Indicators (Minimum of two required: Check all th	· critical from			01	01	-120 70 1			[전기: 프라이크 (C.) (I.) (I.) (I.) (I.) (I.) (I.) (I.) (I
Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (T2)									
Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Mineral (S1) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3) Depleted Matrix (F3) Wetland Hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: Depln (inches): Depln (inches): Depln (inches): Soils very dry, friable **Coils very dry, friable** **Coils very d									
Stratified Layers (A5)		at the second of				the second second			
Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Set Mucky Indicators (minimum of more sequired or Peat (S4) Set Mucky Peat (S4) Set Mucky Peat (S4					The second second				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Setrictive Layer (if observed): Type: Depth (inches): Temarks: **Soils very dry, friable** **PROLOGY** Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required: Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Depth (inches): Surface Water (A1) High Water Table (A2) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) In Deposits (B5) In Deposits (B5) In Deposits (B5) In Muck Surface (C7) In Deposits (B5) In Muck Surface (C7) In Deposits (B5) Sparsely Vegelated Concave Surface (B8) Depth (inches): Sufface Water Present? Ves No Depth (inches): Sediment Deposits (B7) Sparsely Vegelated Concave Surface (B8) Depth (inches): Sparsely Vegelated Concave Surface (B8) Depth (inches): Sparsely Vegelated Concave Surface (B8) Depth (inches): Sufface Water Present? Ves No Depth (inches): Sedimart Deposits (S4) Depth (inches): Sparsely Vegelated Concave Surface (B8) Depth (inches): Sparsely Vegelated Concave Surface (B8) Depth (inches): Susteration Present? Ves No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (inches): Search Hydrology Present? Yes No Depth (i									because of a state of the
Sandy Mucky Mineral (S1)			ce (A11)						
	_ Thick Dark	Surface (A12)		Deple	ted Dark S	urface (F7)	3Indicators of	hydrophytic vegetation and
Hydric Soil Present? Yes No No No No No No No No				Redox	Depressi	ons (F8)			
Type:								unless dis	turbed or problematic
Depth (inches):		yer (if observed)	1:						
Deprit (incnes): Colls very dry, friable		Carlo I		_				Hydric Soil Pre	esent? Yes No
Colls very dry, friable Colls very dry,	Depth (inch	es):						240000000000000000000000000000000000000	
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Induction Visible on Aerial Imagery (B7) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Surface Water (M1) Water-Stained Leaves (B9) Aquatic Fauna (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Sparsely Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Depth (inches): Surface C7) Depth (inches): Surface C3) Saturation Visible on Aerial Imagery (B7) Saturation Visible on Aerial Imagery (B7) Surface C3 Saturation Visible on Ae		y dry, friab	le						
Secondary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Secondary Indicators (minimum of two required check all that apply) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Secondary Indicators (minimum of two required check all that apply) Secondary Indicators (minimum of two required check all that apply) Secondary Indicators (minimum of two required check all that apply) Surface Soil Cracks (B6) Drainage Patterns (B10) Dray-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Selface Water Present? Yes No Depth (inches): Vestand Hydrology Present? Yes No Popth (inches): Selface Corded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Soils ver		le						
Surface Water (A1)	Soils very	Υ							
High Water Table (A2)	Soils very	Y ology Indicators		uired: check all that a	apply)			Secondary	Indicators (minimum of two require
Saturation (A3)	Soils very YDROLOG Vetland Hydro	Y ology Indicators tors (minimum of				ves (B9)			PERCENTAGE OF THE PERCENTAGE O
Water Marks (B1)	YDROLOG Vetland Hydro Primary Indicat Surface W	Y ology Indicators tors (minimum of e /ater (A1)		Water-St	ained Lea			Surface	Soil Cracks (B6)
Sediment Deposits (B2)	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate	ology Indicators tors (minimum of dater (A1) er Table (A2)		Water-St	ained Lea Fauna (B1	3)		Surface Drainaç	e Soil Cracks (B6) ge Patterns (B10)
	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation	ology Indicators tors (minimum of dater (A1) or Table (A2) (A3)		Water-St Aquatic I True Aqu	ained Lea Fauna (B1 uatic Plant	3) s (B14)		Surface Drainaç Dry-Sea	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: vurface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): vaturation Present? Yes No Depth (inches): Vestand Hydrology Present? Yes No Depth (inches): Vestand Hydrology Present? Yes No Vestand Hydrology Present? Yes No Vestand Provides Capillary fringe)	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar	ology Indicators tors (minimum of o rater (A1) ar Table (A2) (A3) rks (B1)		Water-St Aquatic I True Aqu Hydroge	ained Lea Fauna (B1 uatic Plant n Sulfide (3) s (B14) Odor (C1)	vina Roots	Surface Drainag Dry-Sea Crayfisi	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Staturation Present? Yes _	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment	ology Indicators tors (minimum of o /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)		Water-St Aquatic f True Aqu Hydroge Oxidized	ained Lea Fauna (B1 uatic Plant n Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Liv		Surface Drainag Dry-Se Crayfisl (C3) Saturat	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: surface Water Present?	YDROLOG Vetland Hydro Vetland Hydro Surface W High Wate Saturation Water Mar Sediment I Drift Depos	ology Indicators tors (minimum of electric (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)		Water-Si Aquatic f True Aqu Hydroge Oxidized Presence	ained Lea Fauna (B1 uatic Plant n Sulfide (Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C	4)	Surface Drainag Dry-Sea Crayfisi (C3) Saturat Stunted	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) f or Stressed Plants (D1)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: surface Water Present?	YDROLOG Vetland Hydro Surface W High Wate Saturation Water Mar Sediment I Drift Depos	ology Indicators tors (minimum of electric (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4)		Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I	ained Lea Fauna (B1 uatic Plant n Sulfide (Rhizosph e of Reduc ron Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C	4)	Surface Drainag Dry-Sea Crayfisi (C3) Saturat Stuntec 5) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) f or Stressed Plants (D1) rphic Position (D2)
Surface Water Present? Yes No Depth (inches):	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos	ology Indicators tors (minimum of eleter (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	: one is requ	Water-St Aquatic I True Aqu Hydroge Oxidized Presence Recent II	ained Lea Fauna (B1 Jatic Plant In Sulfide (Rhizosph e of Reduc on Reduc ck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Surface Drainag Dry-Sea Crayfisi (C3) Saturat Stuntec 5) Geomo	e Soil Cracks (B6) ge Patterns (B10) gson Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) f or Stressed Plants (D1) rphic Position (D2)
Valer Table Present? Yes No Depth (inches): Baturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos	ology Indicators tors (minimum of a fater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) a Visible on Aerial	: one is requ	Water-St Aquatic If True Aqu Hydroge Oxidized Presence Recent In Thin Muc	ained Lea Fauna (B1 uatic Plant n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface r Well Dat	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfisi (C3) Saturat Stuntec 5) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) f or Stressed Plants (D1) rphic Position (D2)
saturation Present? Yes No Depth (inches); Wetland Hydrology Present? Yes No Depth (inches); Security fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Inundation Sparsely V	ology Indicators tors (minimum of ole ater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) or Visible on Aerial degetated Concav	: one is requ	Water-St Aquatic If True Aqu Hydroge Oxidized Presence Recent In Thin Muc	ained Lea Fauna (B1 uatic Plant n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface r Well Dat	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfisi (C3) Saturat Stuntec 5) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) f or Stressed Plants (D1) rphic Position (D2)
ncludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation Sparsely V ield Observa	ology Indicators tors (minimum of ology ater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) or Visible on Aerial degetated Concav	: one is requ Imagery (I	Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent It Thin Muc B7) Gauge o (B8) Other (E	ained Lea Fauna (B1 uatic Plant n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface r Well Dat xplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfisi (C3) Saturat Stuntec 5) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) f or Stressed Plants (D1) rphic Position (D2)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation Sparsely W ield Observa	ology Indicators tors (minimum of eleter (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) a Visible on Aerial legetated Concavitions: Present?	: one is requ Imagery (I ve Surface	Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent fi Thin Muc B7) Gauge o (B8) Other (E	ained Lea Fauna (B1 aatic Plant in Sulfide (Rhizosph e of Reduc ron Reduc ck Surface ir Well Dat xplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfisi (C3) Saturat Stuntec 5) Geomo	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) f or Stressed Plants (D1) rphic Position (D2)
Remarks:	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Inundation Sparsely V Gield Observa Surface Water Vater Table Present Incomes	ology Indicators tors (minimum of a fater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) o Visible on Aerial /egetated Concav ations: Present?	: one is requ Imagery (I ve Surface Yes	Water-St Aquatic f Aquatic f True Aqu Hydroge Oxidized Presence Recent fi Thin Muc B7) Gauge o (B8) Other (E	ained Lea Fauna (B1 natic Plant n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface r Well Dat xplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4) d Soils (Co	Surface Drainag Dry-Sei Crayfisi (C3) Saturat Stunted 6) Geomo FAC-No	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) for Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Remarks:	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation Sparsely W Field Observa Surface Water Vater Table Pro Saturation Presincludes capill	ology Indicators tors (minimum of a fater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) a Visible on Aerial /egelated Concavitions: Present?	: one is required. Imagery (Information of the Surface of the Surf	Water-St Aquatic f Aquatic f True Aqu Hydroge Oxidized Presence Recent fi Thin Muc B7) Gauge o (B8) Other (E) No Depth (i) No Depth (i)	ained Lea Fauna (B1 Latic Plant In Sulfide (Rhizosph e of Reduct ron Reduct ck Surface r Well Dat xplain in R Inches): inches): inches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (Co	Surface Drainag Dry-Sei Crayfisi (C3) Saturat Stunted FAC-No	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) for Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
	YDROLOG Netland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Inundation Sparsely V Field Observa Surface Water Nater Table Pro Saturation Presincludes capill Describe Reco	ology Indicators tors (minimum of a fater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) a Visible on Aerial /egelated Concavitions: Present?	: one is required. Imagery (Information of the Surface of the Surf	Water-St Aquatic f Aquatic f True Aqu Hydroge Oxidized Presence Recent fi Thin Muc B7) Gauge o (B8) Other (E) No Depth (i) No Depth (i)	ained Lea Fauna (B1 Latic Plant In Sulfide (Rhizosph e of Reduct ron Reduct ck Surface r Well Dat xplain in R Inches): inches): inches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (Co	Surface Drainag Dry-Sei Crayfisi (C3) Saturat Stunted FAC-No	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) for Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
	YDROLOG Vetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Inundation Sparsely V Gield Observa Surface Water Vater Table Pro Saturation Presincludes capill Describe Reco	ology Indicators tors (minimum of a fater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) a Visible on Aerial /egelated Concavitions: Present?	: one is required. Imagery (Information of the Surface of the Surf	Water-St Aquatic f Aquatic f True Aqu Hydroge Oxidized Presence Recent fi Thin Muc B7) Gauge o (B8) Other (E) No Depth (i) No Depth (i)	ained Lea Fauna (B1 Latic Plant In Sulfide (Rhizosph e of Reduct ron Reduct ck Surface r Well Dat xplain in R Inches): inches): inches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (Co	Surface Drainag Dry-Sei Crayfisi (C3) Saturat Stunted FAC-No	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) for Stressed Plants (D1) rphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar			City/Co	unty: Dodge		Sam	oling Da	ate: 202	20-10-30
Applicant/Owner: EDF Renewables	3				State: Minneso	ota Samp	oling Po	int NW	'-15
Investigator(s): David Kuhlmann			Section	, Township, Ra	ange: Section 11, T	106N, R	16W		
Landform (hillslope, terrace, etc.): Up					(concave, convex, no				
Slope (%): 2-5 Lat. 43.995	53613		Long:	-92.698795	3	Datur	n NA	D 83	
Soil Map Unit Name: Nasset-Winneshi	ek comp l ex, 12	to 18 percent slo	pes, mo	derately erode	d (M527D2) NWI clas	sification:	R4SE	3C	
Are climatic / hydrologic conditions on	he site typical	for this time of ye	ar? Ye	s / No	(If no, explain i	n Remark	s.)		
Are Vegetation, Soil, or									No
Are Vegetation, Soil, or									
SUMMARY OF FINDINGS - A									res etc
		No No	Juliy	omig pomi	iodations, transc	oto, mip	Ortan	it ioutu	103, 000
Hydrophytic Vegetation Present? Hydric Soil Present?		No		s the Sample	d Area				
Wetland Hydrology Present?		No V	1.0	within a Wetla	nd? Yes_		No	<u> </u>	
Remarks			-						
Grassy swale, tile outle	t nracan	t indicates	م انا	ly remov	al of hydrolog	v			
Grassy swale, the outle	t presen	tillalcates	IIKE	iy reillov	ar or riyurolog	У			
VEGETATION - Use scientific	names of pl	ants.							
		Absolute	Domi	nant Indicator	Dominance Test w	orksheet			
Tree Stratum (Plot size: 30 ft r)			es? Status	Number of Dominar				
1.			_		That Are OBL, FAC	W, or FAC	2		(A)
2			_	_	Total Number of Do	minant			
3			-		Species Across All	Strata:	2		(B)
4			_		Percent of Dominar	t Species			
5			-		That Are OBL, FAC	W, or FAC	10	0	(A/B)
Sapling/Shrub Stratum (Plot size 1	5 ft r	· -	= Total	Cover	Prevalence Index	workshee	t:		
1				2,000	Total % Cover	of:	M	ultiply by:	
2.					OBL species 0		x 1 =	0	
3.					FACW species 0		x 2 =	0	
4,					FAC species 10		x 3 =		_
5			_		FACU species 0		x 4 =		
5 ft r			= Total	Cover	UPL species 0		x 5 =		
Herb Stratum (Plot size: 5 ft r 1 Setaria pumila)	60	~	FAC	Column Totals: 10	0	(A)	300	(B)
2 Panicum capillare		40	_		Prevalence In	dex = B/A	= 3.0)	
3.					Hydrophytic Veget	The same of the sa			
4					1 - Rapid Test f				1
5.			_		✓ 2 - Dominance	Test is >5	0%		
6				FACU	✓ 3 - Prevalence	Index is ≤	3.01		
7.					4 - Morphologic	al Adapta	tions ¹ (Provide s	supporting
8.					data in Rem				
9,					Problematic Hy	drophytic	Vegeta	tion' (Exp	plain)
10					A. v. i v. iv.				
Woody Vine Stratum (Plot size: 30	ft r	100%	= Total	Cover	¹ Indicators of hydric be present, unless of				gy must
1.					Hydrophytic				
					Vegetation	v			
2									
Remarks: (Include photo numbers he			= Total	Cover	Present?	Yes	_ N	0	

Depth Mat			ox Featur				47.4
(inches) Color (mois	-	Color (moist)	%	_Type ¹	Loc2	Texture	Remarks
0 - 24 10YR 2/2	95	10YR 3/4	5	<u> </u>	M	Silt Loam	
		-					
	_		-		_		
		-	-		_		
		-					
Type: C=Concentration, D=	Depletion, RN	M=Reduced Matrix, N	IS=Maske	ed Sand G	rains.		=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
lydric Soil Indicators:			O1				선물 하다 마시 내가 있다면 사용하는 그 없는 것이다.
_ Histosol (A1)				fatrix (S4)			rie Redox (A16)
Histic Epipedon (A2) Black Histic (A3)			Redox (S ed Matrix			Dark Surfa	anese Masses (F12)
Hydrogen Sulfide (A4)				lineral (F1)			ow Dark Surface (TF12)
Stratified Layers (A5)				Matrix (F2)			lain in Remarks)
2 cm Muck (A10)			ed Matrix				A CONTRACTOR OF THE PARTY OF TH
Depleted Below Dark St			Dark Sur				
Thick Dark Surface (A12				Surface (F7)		ydrophytic vegetation and
Sandy Mucky Mineral (S		Redox	Depressi	ons (F8)			drology must be present,
_ 5 cm Mucky Peat or Pea						unless dist	urbed or problematic
Restrictive Layer (if observ	/ea):						
Type:						Hydric Soil Pres	sent? Yes No
Depth (inches): Remarks:							
Depth (inches)::Remarks:							
Depth (inches):Remarks:	ors:						
Depth (inches):Remarks: YDROLOGY Wetland Hydrology Indicat		uired: check all that a	(Vlaga				
Depth (inches):			WI - CO	ves (B9)		Secondary In	ndicators (minimum of two require
Depth (inches):		Water-St	ained Lea			Secondary Ir Surface	ndicators (minimum of two require Soil Cracks (B6)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-St Aquatic F	ained Lea auna (B1	3)		Secondary Ir Surface Drainage	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10)
Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-St Aquatic F True Aqu	ained Lea auna (B1 atic Plant	3) s (B14)		Secondary Ir Surface Drainage Dry-Sea	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is requ	Water-St Aquatic F True Aqu Hydroger	ained Lea auna (B1 atic Plant Sulfide (3) s (B14)	ving Roots	Secondary Ir Surface Drainage Dry-Sea Crayfish	ndicators (minimum of two require Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8)
Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	of one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized	ained Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1)		Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
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Depth (inches):	of one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1) eres on Li ced Iron (C	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted G Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):	of one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted G Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Depth (inches):	of one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea fauna (B1 atic Plant n Sulfide (Rhizosph e of Reduc on Reduc k Surface	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted G Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Print Deposits (B2) Depth (inches): Proposits (B4) Print Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Action (B4) Sparsely Vegetated Core	of one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea fauna (B1 latic Plant n Sulfide (Rhizosph e of Reduc on Reduc k Surface r Well Dat	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted G Geomor	ndicators (minimum of two required Soil Cracks (B6) as Patterns (B10) as which was been solved by the son Water Table (C2) and Wisible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2)
Print (inches): Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations:	of one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduct on Reduct k Surface Well Dat cplain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted G Geomor	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
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Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A6 Sparsely Vegetated Corfield Observations: Surface Water Present? Nater Table Present? Saturation Present? Includes capillary fringe)	erial Imagery (Incave Surface Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex No Depth (in No Depth (in	ained Lea fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- on Reduc- k Surface ir Well Dat kplain in R inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted 6) Geomory FAC-Nei	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
Property (inches): Property Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present? Sincludes capillary fringe)	erial Imagery (Incave Surface Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex No Depth (in No Depth (in	ained Lea fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- on Reduc- k Surface ir Well Dat kplain in R inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted 6) Geomory FAC-Nei	ndicators (minimum of two requires Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
Depth (inches):	erial Imagery (Incave Surface Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex No Depth (in No Depth (in	ained Lea fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- on Reduc- k Surface ir Well Dat kplain in R inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted 6) Geomory FAC-Nei	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (street)	erial Imagery (Incave Surface Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex No Depth (in No Depth (in	ained Lea fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- on Reduc- k Surface ir Well Dat kplain in R inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted 6) Geomory FAC-Nei	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)

Project/Site: Byron Solar			City/County: Dodge		Sampling Date
Applicant/Owner: EDF Renewable	s		6.10.00		Sampling Point: NW-16
nvestigator(s): David Kuhlmann			Section, Township, Ra	nge: Section 11, T10	06N, R16W
Landform (hillslope, terrace, etc.): Up				(concave, convex, none	
Slope (%): 0-2 Lat: 43.99	84741		Long: -92.707955	3	Datum: NAD 83
Soil Map Unit Name: Nasset-Winnesh	niek complex, 12	to 18 percent slop	oes, moderately erode	d (M527D2) NWI classif	fication: None
Are climatic / hydrologic conditions on	the site typical	for this time of year	ar? Yes No	(If no, explain in	Remarks.)
Are Vegetation, Soil, o					
Are Vegetation, Soil, o					
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	Yes				A
Hydric Soil Present?	Yes 🗸	No	Is the Sample		
Wetland Hydrology Present?		No_V	within a Wetla	nd? Yes	No
Remarks:			'		
Harvested and tilled co	orn field,	tile intake	likely remove	s any hydrolog	y from area
VEGETATION – Use scientific	names of pl	ants.			
30 ft r		Absolute	7 S. O. K. LANDERS CO. LAND SALES CO. S.	Dominance Test wo	rksheet;
Tree Stratum (Plot size: 30 ft r		% Cover	Species? Status	Number of Dominant	
1				That Are OBL, FACW	/, or FAC: 0 (A)
2			=	Total Number of Dom	
3				Species Across All St	rata: <u>0</u> (B)
4			$\overline{}$	Percent of Dominant	
40			= Total Cover	That Are OBL, FACW	$\sqrt{\text{, or FAC: } 0}$ (A/B)
Sapling/Shrub Stratum (Plot size	15 ft r	_)	Total Cavel	Prevalence Index wo	orksheet:
1					: Multiply by:
2					x 1 = 0
3				FACW species 0	x 2 = 0
4,					x 3 = 0
5				FACU species 0	
Herb Stratum (Plot size: 5 ft r			= Total Cover		x 5 = 0
Control of the contro)			Column Totals: 0	(A) <u>0</u> (B)
1			FACU	Prevalence Inde	ex = R/A = 0.0
3.				Hydrophytic Vegetat	
4					Hydrophytic Vegetation
5.				2 - Dominance To	
6				3 - Prevalence In	
7.				the second secon	Adaptations (Provide supporting
8.			-		ks or on a separate sheet)
9,				Problematic Hydr	rophytic Vegetation¹ (Explain)
10.					
Woody Vine Stratum (Plot size: 30			= Total Cover		oil and wetland hydrology must sturbed or problematic.
				Hydrophytic	
1.				yaropiiyuo	
1				Vegetation	
1			= Total Cover		'es No

0 - 8 10YR 2/1 95 10YR 4/6 5 C M Clay loam 8 - 24 10YR 4/2 60 10YR 5/8 40 C M Sand Mileta of layers through, sells appear to - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	(inches) Color	Matrix		Rec	lox Featur	es			
8 - 24 10YR 4/2 60 10YR 5/8 40 C M Sand Vising of layers through, sooks appear to C M Sand Vising of layers through, sooks appear to C M Sand Vising of layers through, sooks appear to C M Sand Vising of layers through, sooks appear to C M Sand Vising of layers through, sooks appear to C M Sand Vising of layers through, sooks appear to C M Sand Vising of layers (AS) Hydric Soil Indicators:		.,	-		%	2.7.1.2.2	7.5	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: Mistosol (A1) Histosol (A1) Sandy Gleyed Matrix (S4) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Loarny Mucky Mineral (F1) Loarny Mucky Mineral (F1) Loarny Mucky Mineral (F2) Depleted Matrix (F2) Depleted Matrix (F2) Sandy Ruck (A10) Peleted Matrix (F2) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Peleted Matrix (F2) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Factor Dark Surface (F7) Sandy Mucky Mineral (S1) Factor Dark Surface (F7) Sandy Mucky Mineral (S1) Factor Dark Surface (F7) Sendy Mucky Mineral (S1) Factor Dark Surface (F7) Factor Dark Surface (F7) Factor Dark Surface (F7) Sendy Mucky Mineral (S1) Factor Dark Surface (F7) Factor Dark Surface (F8) Factor Dark Surface (F8) Finany Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two nor included particles of the property	0 - 8 10YR	2/1	95	10YR 4/6	5	<u>C</u>	M	Clay loam	
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Strattlied Layers (A5) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Seading Mucky Mineral (S1) Redox Depressions (F8) Restrictive Layer (if observed): Type: Deplt (inches): Remarks: Water-Stained Leaves (B9) Hydric Soil Present? Yes No. No. No. No. No. No. No. No. No.	8 - 24 10YR	4/2	60	10YR 5/8	40	С	M	Sand	Mixing of layers through, soils appear to be distu
Hydric Soil Indicators: Histosol (A1) Histo Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Coast Prairie Redox (A112) Depleted Matrix (F3) Coast Prairie Redox (A112) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Prairie Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Send Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): Remarks: VPROLOGY				-			_		
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Black Histic (A3) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Coast Prairie Redox (A16) Very Shallow Dark Surface (T12) Very Shallow Dark Surface (T12) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Depleted Matrix (F3) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Other (Explain in Remarks) Other				-		_		_	-
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Black Histic (A3) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Coast Prairie Redox (A16) Very Shallow Dark Surface (T12) Very Shallow Dark Surface (T12) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Depleted Matrix (F3) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T172) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Very Shallow Dark Surface (T192) Other (Explain in Remarks) Other (Explain in Remarks) Other		_	-			-	_		-
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Zen Muck (A10) Depleted Matrix (F3) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Coast Prairie Redox (A11) Depleted Matrix (F3) Coast Prairie Redox (A11) Depleted Matrix (F3) Coast Prairie Redox (A11) Depleted Matrix (F3) Coast Prairie Redox (A11) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Prairie Redox (A12) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Prindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (Inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Hydric Soil Present? Yes No. Hydric Soil Present? Yes No. No. Secondary Indicators (minimum of two no. Secondary Indica				+	-	_	_	-	+
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Prow. Anganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A10) Depleted Matrix (F2) Dither (Explain in Remarks) ✓ Depleted Below Dark Surface (A11) Pepleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Pepleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two new surface) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry. Season Water Table (C2) Water Marks (B1) Dry. Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Pepth (inches):			letion, RM	/I=Reduced Matrix, I	//S=Maske	ed Sand G	rains.		
Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Depleted Matrix (F2) Depleted Matrix (F3) 2 cm Muck (A10) Depleted Matrix (F3) Thick Dark Surface (A11) Pepleted Dark Surface (F7) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Deplt (inches): Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two researchs): Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Present? Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Iron Deposits (B5) Thin Muck Surface (C7) Sparkey Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches):	A second contract of the second	s:							그림생생님들 아내는 사람이 얼마를 생각하는 그 때에 보다 되었다.
Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Suffide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Matrix (F3) Pepleted Below Dark Surface (A11) Pepleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Matrix (F3) Pepleted Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Redox Dark Surface (F7) Sandy Mucky Peat or Peat (S3) Sestrictive Layer (if observed): Type: Depth (inches): Primary Indicators (minimum of one is required, check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Presence of Reduced (ron (C4) Sturted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inno Deposits (B3) Presence of Reduced (C7) Inno Deposits (B5) Thin Muck Surface (C7) Inno Leposits (B7) Sargely Vegelated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches):									
Hydrogen Sulfide (A4)		42)							
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 c m Muck (A10) Depleted Below Dark Surface (A11) Redox Dark Surface (F5) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) * Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches):		(A4)				the second second			
2 cm Muck (A10)									
Thick Dark Surface (A12) Depleted Dark Surface (F7)								-	
Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	✓ Depleted Below D	ark Surface	e (A11)	✓ Redox	Dark Sur	face (F6)			
)		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Restrictive Layer (if observed): Type:			41	Redox	Depressi	ons (F8)			그런 얼마나가 사꾸 맛이 되었다. 하다 하게 하고 아니다
Type:								unless	s disturbed or problematic
Principles (Present? Present? Present? Present? Present? Present? Present? Present? Present (Present? Present? Present. Present. Present. Present. Present. Present.	restrictive Layer (ii t	observed).							
Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two regulators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Into Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches):								Hitch Grown 900	T / W TO DO U - D/
YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Very Seading All that apply) Secondary Indicators (minimum of two recondance) Secondary Indicators (minimum of two recondance) Secondary Indicators (minimum of two recondance) Surface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Sourface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Surface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B10) Sourface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Saturation Visible on Aerial Imagery (S8) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Pepth (inches):	Туре:							Hydric Soil	Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Saturation Visible on Aerial Imagery (B7) Secondary Indicators (minimum of two response to the policy of the	Type: Depth (inches):							Hydric Soil	Present? Yes No
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Surface Water Marks (B8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (B7) Geomorphic Position (D2) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Depth (inches): Surface Water Present?	Type: Depth (inches): Remarks:							Hydric Soil	Present? Yes No
Surface Water (A1)	Type: Depth (inches): Remarks: YDROLOGY	ndicators:						Hydric Soil	Present? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Faule (C2) Saturation Visible on Aerial Imagery Faule (C2) Faule (C2) Dry-Season Water Table (C2) Faule (C2) Saturation Visible on Aerial Imagery Faule (C2) Faule	Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology in		ne is requ	ired check all that	apply)				
Saturation (A3)	Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology in the second control of the second con	nimum of o	ne is requ			ves (B9)		Seconda	ary Indicators (minimum of two required
Water Marks (B1)	Type:	nimum of o	ne is requ	Water-S	ained Lea			Seconda Sur	ary Indicators (minimum of two required face Soil Cracks (B6)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches):	Type:	nimum of o	ne is requ	Water-S	ained Lea Fauna (B1	3)		Second: Sur	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10)
Drift Deposits (B3)	Type:	nimum of o 1) (A2)	ne is requ	Water-Si Aquatic True Aqu	ained Lea Fauna (B1 uatic Plant	3) s (B14)		Seconda Suri	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches):	Type:	nimum of o 1) (A2)	ne is requ	Water-Si Aquatic True Aqu Hydroge	ained Lea Fauna (B1 uatic Plant n Sulfide (3) s (B14) Odor (C1)	ving Roots	Seconda Suri Dra Dry Cra	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches):	Type:	nimum of o 1) (A2) s (B2)	ne is requ	Water-Si Aquatic True Aqu Hydroge Oxidized	ained Lea Fauna (B1 uatic Plant n Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Li		Seconda Sur Dra Dry Cra s (C3) Sati	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches):	Type:	nimum of o 1) (A2) s (B2)	ne is requ	Water-Si Aquatic l True Aqu Hydroge Oxidized Presence	ained Lea Fauna (B1 uatic Plants n Sulfide (Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Li ced Iron (C	4)	Second: Sur Dra Dra Dry Cra s (C3) Satu	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Field Observations: Surface Water Present? Yes No Depth (inches):	Type:	nimum of o 1) (A2) s (B2)) t (B4)	ne is requ	Water-Si Aquatic l True Aqu Hydroge Oxidized Presence Recent I	ained Lea Fauna (B1 uatic Plants n Sulfide C Rhizosph e of Reduc ron Reduc	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille	4)	Seconda Sur Dra Dry Cra s (C3) Satu Stur	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2)
Surface Water Present? Yes No Depth (inches):	Type:	nimum of o 1) (A2) s (B2)) t (B4)		Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Mu	ained Lea Fauna (B1 Jatic Plants In Sulfide (Rhizosph e of Reductor on Reductor ck Surface	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7)	4)	Seconda Sur Dra Dry Cra s (C3) Satu Stur	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2)
	Type:	nimum of o 1) (A2) s (B2)) t (B4)) on Aerial I	magery (B	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presenc Recent I Thin Muc	ained Lea Fauna (B1) natic Plants n Sulfide (Rhizosph e of Reduction ron Reduction ck Surface r Well Data	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Seconda Sur Dra Dry Cra s (C3) Satu Stur	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2)
	Type:	nimum of o 1) (A2) s (B2)) t (B4)) on Aerial I	magery (B	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge of (B8) Other (E	ained Lea Fauna (B1, atic Plant: n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface r Well Dat: xplain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Seconda Sur Dra Dry Cra s (C3) Satu Stur	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2)
Nater Table Present? Yes No Depth (inches):	Type:	nimum of o 1) (A2) s (B2)) t (B4)) on Aerial I	magery (F s Surface	Water-Si Aquatic i True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge of (B8) Other (E	ained Lea Fauna (B1 aatic Plant: n Sulfide C Rhizosph e of Reduc ron Reduc ck Surface r Well Dat: xplain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Seconda Sur Dra Dry Cra s (C3) Satu Stur	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2)
(includes capillary fringe)	Type:	nimum of o 1) (A2) s (B2)) t (B4) on Aerial I ed Concave	magery (E s Surface	Water-Si Aquatic i True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge of (B8) Other (E	ained Lea Fauna (B1 aatic Plant: n Sulfide C Rhizosph e of Reduc ron Reduc ck Surface r Well Dat: xplain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Seconda Sur Dra Dry Cra s (C3) Satu Stur	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: ery minimal swale, evidence of tiling; aerial features likely a product of erosion, larger nearby grassy swale that NW-16 drains to dominated by smooth brome	Type:	nimum of o 1) (A2) s (B2)) on Aerial I ed Concave t? Y Y y ge)	magery (Be Surface es es es	Water-Si Aquatic i Aquatic i True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge of (B8) Other (E No Depth (No Depth (ained Lea Fauna (B1) natic Plants n Sulfide (Canticophie of Reduction Reduction ck Surface r Well Date explain in Respection in Respective in Respective in Respective in Respective in Respection in Respective in	3) s (B14) Ddor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Seconda Sur Dra Dry Cra s (C3) Satu Stur FAC	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Remarks:	Type:	nimum of o 1) (A2) s (B2)) t (B4)) on Aerial I ed Concave t? Y y ge) ata (stream	magery (Be Surface ese ese gauge, m	Water-Si Aquatic I True Aqu Hydroge Oxidized Presenc Recent I Thin Muc B7) Gauge of (B8) Other (E No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (ained Lea Fauna (B1) natic Plants n Sulfide (Canticophie of Reduction Reduction ron Reduction Reduction ron Reduction Reduction row Well Data explain in Reduction Reduction Reduction miches): inches): inches):	3) s (B14) Ddor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Seconda Sur Dra Dry Cra S(C3) Satu Stur Stur FAC	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Valuation and the second secon	Type:	nimum of o 1) (A2) s (B2)) t (B4)) on Aerial I ed Concave t? Y y ge) ata (stream	magery (Be Surface ese ese gauge, m	Water-Si Aquatic I True Aqu Hydroge Oxidized Presenc Recent I Thin Muc B7) Gauge of (B8) Other (E No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (No Depth (ained Lea Fauna (B1) natic Plants n Sulfide (Canticophie of Reduction Reduction ron Reduction Reduction ron Reduction Reduction row Well Data explain in Reduction Reduction Reduction miches): inches): inches):	3) s (B14) Ddor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Seconda Sur Dra Dry Cra S(C3) Satu Stur Stur FAC	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020-10-30
Applicant/Owner: EDF Renewables					Sampling Point: NW-17
Investigator(s): David Kuhlmann			Section, Township, Ra	nge: Section 11, T106	3N, R16W
Landform (hillslope, terrace, etc.); Upl				(concave, convex, none):	
Slope (%): 0-2 Lat: 43.993	38660		Long: -92.7052760	0	Datum: NAD 83
Soil Map Unit Name: Oran silt Ioam		ent slopes (M	508A)	NWI classific	ation: None
Are climatic / hydrologic conditions on t					
Are Vegetation, Soil, or					
Are Vegetation, Soil, or				eeded, explain any answe	
SUMMARY OF FINDINGS - A					
Hydrophytic Vegetation Present?	Yes	No V	HILL WAR	Law V	
Hydric Soil Present?	Yes 🗸		Is the Sampled		
Wetland Hydrology Present?	Yes	No	within a Wetlan	nd? Yes	No
Remarks:					
Harvested and tilled co	orn field, s	sample loc	ated next to	terraced drain t	ile intake
VEGETATION – Use scientific	names of pla	ants.			
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test work	
1,				Number of Dominant S That Are OBL, FACW,	
2					
3				Total Number of Domin Species Across All Stra	
4					
5.				Percent of Dominant Sp That Are OBL, FACW,	
1	5 ft r		= Total Cover	Prevalence Index wor	La Value
Sapling/Shrub Stratum (Plot size 1				Total % Cover of:	
1.					x = 0
2					x 2 = 0
3				FAC species 0	x 3 = 0
5.				FACU species 0	
A			= Total Cover	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r)		1	Column Totals: 0	(A) <u>0</u> (B)
1					
2,				Prevalence Index	
3				Hydrophytic Vegetatio	Hydrophytic Vegetation
4				2 - Dominance Tes	
5				3 - Prevalence Inde	
6			FACU	The state of the s	Adaptations (Provide supporting
7				data in Remarks	s or on a separate sheet)
8				Problematic Hydro	phytic Vegetation¹ (Explain)
9,					
10			= Total Cover		I and wetland hydrology must
Woody Vine Stratum (Plot size: 30	ft r		13101 00701	be present, unless distr	urbed or problematic.
1				Hydrophytic	
2.				Vegetation	No V
			T 110	Present? Ye	s No
Remarks: (Include photo numbers he	V		= Total Cover	V-117 -	

Visite and	Matrix			lox Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 24	10YR 2/1	95	10YR 3/4	5	С	М	Clay	
-								
			-			_		
			-			_	-	
					_			
Type: C=Cor	ncentration D=De	pletion RN	M=Reduced Matrix, I	VS=Maske	d Sand G	rains	2Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Ir		F-2-2-11/2		1, = 3,1,0,=3,1				or Problematic Hydric Soils ³ :
Histosol (A1)		Sandy	Gleyed M	atrix (S4)		Coast Pr	rairie Redox (A16)
	pedon (A2)			Redox (S				face (S7)
Black His	tic (A3)		Stripp	ed Matrix (S6)		Iron-Man	iganese Masses (F12)
Hydrogen	Sulfide (A4)		Loam	y Mucky M	ineral (F1)	Very Sha	allow Dark Surface (TF12)
	Layers (A5)		The second of the second	y Gleyed N	The second second second		Other (E	xplain in Remarks)
2 cm Muc	Little 1 Library Control Little	12.73		ted Matrix				
	Below Dark Surfa	ice (A11)		Dark Suri			Single or annual control	Programme and the later
	k Surface (A12) ucky Mineral (S1)			ted Dark S	The state of the s	()		f hydrophytic vegetation and nydrology must be present,
	cky Peat or Peat (53)	Redox	Depressi	ons (ro)			isturbed or problematic.
	ayer (if observed			_			uness of	istarbed of problematic.
	.,	,.						
Type:							Hydric Soil P	resent? Yes No
Type:	hael							
Type: Depth (incl Remarks:	hes):							
Depth (inci								
Depth (inci	eY.							
Depth (inci Remarks: IYDROLOG Wetland Hyd	SY rology Indicators						0	
Depth (Inci Remarks: IYDROLOG Wetland Hyd Primary Indica	SY rology Indicators ators (minimum of		uired; check all that a					r Indicators (minimum of two required
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V	GY rology Indicators ators (minimum of Vater (A1)		Water-S	tained Lea			Surfac	r Indicators (minimum of two required the Soil Cracks (B6)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wat	SY rology Indicators ators (minimum of Vater (A1) er Table (A2)		Water-S	tained Lea Fauna (B1)	3)		Surfac Draina	r Indicators (minimum of two required be Soil Cracks (B6) age Patterns (B10)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation	orology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3)		Water-S Aquatic True Aqu	tained Lea Fauna (B1) uatic Plants	3) s (B14)		Surfac Draina Dry-Se	r Indicators (minimum of two required be Soil Cracks (B6) age Patterns (B10) eason Water Table (C2)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma	or of the state of		Water-S Aquatic True Aqu Hydroge	tained Lea Fauna (B1) uatic Plants n Sulfide (3) s (B14) odor (C1)	Size Death	Surfac Draina Dry-Se Crayfi	r Indicators (minimum of two required be Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) Deposits (B2)		Water-Si Aquatic l True Aqu Hydroge Oxidized	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph	3) s (B14) odor (C1) eres on Li	1000	Surfac Draina Dry-Se Crayfin s (C3) Satura	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) Deposits (B2) posits (B3)		Water-Si Aquatic True Aqu Hydroge Oxidized Presence	tained Lea Fauna (B1) uatic Plants n Sulfide (I Rhizosph e of Reduc	3) s (B14) odor (C1) eres on Li ed Iron (C	(4)	Surface Draina Dry-Se Crayfina (C3) Satura Stunte	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) c Deposits (B2) orits (B3) or Crust (B4)		Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I	tained Lea Fauna (B1: uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc	3) s (B14) odor (C1) eres on Li ed Iron (C	(4)	Surface Draina Dry-Se Crayfice s (C3) Satura Stunte 66) Geom	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) orphic Position (D2)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) or Crust (B4) osits (B5)	one is requ	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Mu	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7)	(4)	Surface Draina Dry-Se Crayfice s (C3) Satura Stunte 66) Geom	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) or Crust (B4) or Visible on Aeria	one is requ	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presenc Recent I Thin Muc	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface or Well Data	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	(4)	Surface Draina Dry-Se Crayfice s (C3) Satura Stunte 66) Geom	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) orphic Position (D2)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2) or Crust (B4) osits (B5) in Visible on Aeria Vegetated Conca	one is requ	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presenc Recent I Thin Muc	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	(4)	Surface Draina Dry-Se Crayfice s (C3) Satura Stunte 66) Geom	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) orphic Position (D2)
Depth (inci Remarks: IYDROLOG Wetland Hydi Primary Indica Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observe	or Crust (B4) posits (B5) n Visible on Aeria Vegelated Conca ations:	one is required in the second of the second	Water-Si Aquatic i Aquatic i True Aqu Hydroge Oxidized Presence Recent I Thin Mu B7) Gauge of (B8) Other (E	tained Lea Fauna (B1) uatic Plants n Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface r Well Dats xplain in R	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	(4)	Surface Draina Dry-Se Crayfice s (C3) Satura Stunte 66) Geom	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) orphic Position (D2)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observe Surface Water	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) or Crust (B4) osits (B5) in Visible on Aeria Vegetated Conca ations: r Present?	I Imagery (Ive Surface	Water-Si Aquatic i True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge o (B8) Other (E	tained Lea Fauna (B1: uatic Plants n Sulfide C I Rhizosph e of Reduction ron Reduction ck Surface r Well Data xplain in R	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	(4)	Surface Draina Dry-Se Crayfice s (C3) Satura Stunte 66) Geom	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) orphic Position (D2)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ Surface Water Water Table F	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) or Crust (B4) orits (B5) in Visible on Aeria Vegetated Conca ations: r Present?	I Imagery (Ive Surface	Water-Si Aquatic Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Muc B7) Gauge of (B8) Other (E	tained Lea Fauna (B1: uatic Plants in Sulfide C I Rhizosph e of Reduction fron Reduction ck Surface or Well Data xplain in R inches): inches):	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	(4) ed Soils (C	Surface Draina Dry-Se Crayfice (C3) Sature Stunte 6) Geom FAC-N	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) corphic Position (D2) Neutral Test (D5)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observe Surface Water Water Table F Saturation Pre (includes capi	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) or Crust (B4) osits (B5) in Visible on Aeria Vegetated Conca ations: Present? Present? Present?	I Imagery (Ive Surface Yes Yes	Water-Si Aquatic Aquatic True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge of (B8) Other (E	tained Lea Fauna (B1: uatic Plants in Sulfide C Reduction Reduction ron Reduction ck Surface ir Well Date (xplain in Reduction); inches); inches); inches); inches);	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	(24) ed Soils (C	Surface Draina Dry-Se Crayfice (C3) Satura Stunte (6) Geom FAC-N	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) corphic Position (D2) Neutral Test (D5)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observe Surface Water Water Table F Saturation Pre (includes capi Describe Reci	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) in Visible on Aeria Vegelated Conca ations: r Present? esent? ellary fringe) orded Data (strea	I Imagery (Ive Surface Yes Yes	Water-Si Aquatic land and a control of the control	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface or Well Date xplain in R inches): inches): ul photos, p	B) s (B14) clor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	Wet spections)	Surface Draina Dry-Sc Crayfice (C3) Satura Stunte (6) Geom FAC-N	r Indicators (minimum of two required to Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observe Surface Water Water Table F Saturation Per (includes capi Describe Reci Sample loca	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) in Visible on Aeria Vegelated Conca ations: r Present? esent? ellary fringe) orded Data (strea	I Imagery (Ive Surface Yes Yes	Water-Si Aquatic land and a control of the control	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface or Well Date xplain in R inches): inches): ul photos, p	B) s (B14) clor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	Wet spections)	Surface Draina Dry-Sc Crayfice (C3) Satura Stunte (6) Geom FAC-N	r Indicators (minimum of two required the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) corphic Position (D2) Neutral Test (D5)
Depth (inci Remarks: IYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observe Surface Water Water Table F Saturation Pre (includes capi Describe Reci	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) in Visible on Aeria Vegelated Conca ations: r Present? esent? ellary fringe) orded Data (strea	I Imagery (Ive Surface Yes Yes	Water-Si Aquatic land and a control of the control	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface or Well Date xplain in R inches): inches): ul photos, p	B) s (B14) clor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	Wet spections)	Surface Draina Dry-Sc Crayfice (C3) Satura Stunte (6) Geom FAC-N	r Indicators (minimum of two required to Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) and or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5)

FDF Denowables		City/County	Dodge		Sampling Date:	2020-10-30
Applicant/Owner: EDF Renewables				State: Minnesota	A	
nvestigator(s): David Kuhlmann		Section, To	wnship, Ra	nge: Section 11, T106	8N, R16W	
andform (hillslope, terrace, etc.): Upland, Depression						
				2		33
Soil Map Unit Name: Oran silt loam, 1 to 4 percent				NWI classific		
Are climatic / hydrologic conditions on the site typical for th						
Are Vegetation, Soil, or Hydrology						No. V
Are Vegetation, Soil, or Hydrology						
				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point l	ocations, transects	, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes		100	74 - 17es	263		
Hydric Soil Present? Yes Y			e Sampled			
Wetland Hydrology Present? Yes	No	with	in a Wetlar	nd? Yes	No	
Remarks:						
Harvested and tilled corn field, sar	nple loc	ated n	ext to t	terraced drain t	ile intake	
VEGETATION – Use scientific names of plants	S					
20 ft r	Absolute	Dominant		Dominance Test work	sheet;	
Tree Stratum (Plot size:30 ft r)	% Cover	Species?	Status	Number of Dominant Sp		974
1				That Are OBL, FACW, o	or FAC: 2	(A)
2				Total Number of Domin		/D\
3	-	-	$\overline{}$	Species Across All Stra	ta: <u>2</u>	(B)
5			$\overline{}$	Percent of Dominant Sp		7 A 7 D V
**		= Total Cov	er	That Are OBL, FACW,	or FAC: 100	(A/B)
Sapling/Shrub Stratum (Plot size 15 ft r)		10101 031		Prevalence Index wor	ksheet:	
1 Panicum capillare	40		FAC	Total % Cover of:		oly by:
2. Ambrosia trifida	10		FAC		x 1 = 0	_
3.		-		FACW species 0	x 2 = 0	
4,			$\overline{}$	FAC species 50	x 3 = 15	0
5		Tall 10140	_	FACU species 0		
Herb Stratum (Plot size: 5 ft r)	50%	= Total Cov	er	Of Lapecies	$\times 5 = 0$ (A) 15	0 (0)
1.				Column Totals: 50	(A) 15	(B)
2.			FACU	Prevalence Index	= B/A = 3.0	
3.				Hydrophytic Vegetation	on Indicators:	
4.				1 - Rapid Test for H	Hydrophytic Vege	etation
5				✓ 2 - Dominance Tes	t is >50%	
6				✓ 3 - Prevalence Inde	to de your	
7	_			4 - Morphological A data in Remarks	daptations' (Pro	vide supporting
8				Problematic Hydron		
9,	سند			Problematic Hydrol	briylic vegetation	(Lxpiaiii)
10	-			¹ Indicators of hydric soi	l and wetland hy	drology must
Woody Vine Stratum (Plot size: 30 ft r)	-	= Total Cov	er	be present, unless distu		
1.				Hydrophytic		
2,				Vegetation Present? Yes	s No	V
£,		= Total Cov				

Depth Ma			ox Feature				67.4
(inches) Color (moi		Color (moist)	%_	Type ¹	_Loc ² _	Texture	Remarks
0 - 24 10YR 2/1	95	10YR 3/4	_ 5	<u> </u>	M	Clay	
-							
-				`			
11-			~	-	-		
			-	-			
						دا نسبت	
Type: C=Concentration, D	Depletion, R	M=Reduced Matrix, M	MS=Maske	d Sand G	rains.		L=Pore Lining, M=Matrix.
Hydric Soil Indicators:							Problematic Hydric Soils ³ :
Histosol (A1)			Gleyed M				irie Redox (A16)
Histic Epipedon (A2)			Redox (S			Dark Surfa	
Black Histic (A3)			ed Matrix (the second second second			anese Masses (F12)
Hydrogen Sulfide (A4) Stratified Layers (A5)			y Mucky M y Gleyed N				ow Dark Surface (TF12) plain in Remarks)
2 cm Muck (A10)			ted Matrix			Other (Ex)	Jan III Nemarks)
Depleted Below Dark S	urface (A11)		Dark Suri				
Thick Dark Surface (A1			ted Dark S)	3Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1)		Depressi	The second second second			drology must be present,
5 cm Mucky Peat or Pe						unless dis	turbed or problematic
Restrictive Layer (if obser	ved):						
Type:		_				Hudric Soil Pro	esent? Yes No
						Hyuric Son Fre	Sent resNO
Depth (inches):: Remarks:							
Remarks:							
YDROLOGY	tors:						
Remarks: YDROLOGY Netland Hydrology Indica		uired: check all that a	apply)			Secondary I	ndicators (minimum of two required
Remarks: YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur			water to the	ves (B9)			ndicators (minimum of two required Soil Cracks (B6)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimur Surface Water (A1)		Water-St	tained Lea			Surface	Soil Cracks (B6)
Remarks: YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur		Water-St	water to the	3)		Surface Drainag	
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2)		Water-St Aquatic f True Aqu	tained Lea Fauna (B1)	3) s (B14)		Surface Drainag Dry-Sea	Soil Cracks (B6) e Patterns (B10)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3)	n of one is req	Water-St Aquatic I True Aqu Hydroge	tained Lea Fauna (B1) uatic Plants	3) s (B14) Odor (C1)	ving Roots	Surface Drainag Dry-Sea Crayfish	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	n of one is req	Water-Si Aquatic I True Aqu Hydroge Oxidized	tained Lea Fauna (B1) uatic Plants n Sulfide (3) s (B14) Odor (C1) eres on Li	1. (6.3)	Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) le Patterns (B10) ason Water Table (C2) la Burrows (C8)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	n of one is req	Water-Si Aquatic f True Aqu Hydroge Oxidized Presence	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph	3) s (B14) Odor (C1) eres on Li ed Iron (C	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) th Burrows (C8) on Visible on Aerial Imagery (C9)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	n of one is req	Water-Si Aquatic f True Aqu Hydroge Oxidized Presence	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Lited Iron (C tion in Tille	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) th Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	n of one is req	Water-Si Aquatic i True Aqu Hydroge Oxidized Presence Recent ii	tained Lea Fauna (B1: uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) the Patterns (B10) ason Water Table (C2) the Burrows (C8) ton Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	n of one is requested in a second	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent Io Thin Muc	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface	3) s (B14) Odor (C1) eres on Li red Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) th Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A	n of one is requested in a second	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent Io Thin Muc	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface or Well Data	3) s (B14) Odor (C1) eres on Li red Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) th Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	n of one is requested in a second	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent Io Thin Muc	tained Lea Fauna (B1) uatic Plants n Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface r Well Dats xplain in R	3) s (B14) Odor (C1) eres on Li red Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) th Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations:	n of one is rec erial Imagery ncave Surface	Water-Si Aquatic if True Aqu Hydroge Oxidized Presence Recent in Thin Muc (B7) Gauge o e (B8) Other (E	tained Lea Fauna (B1) uatic Plants n Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface r Well Dats xplain in R	3) s (B14) Odor (C1) eres on Li red Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) th Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Proposits (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe)	erial Imagery ncave Surface Yes Yes Yes	Water-Si Aquatic if True Aqu Hydroge Oxidized Presence Recent in Thin Muc (B7) Gauge o e (B8) Other (E No Depth (i	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduct ron Reduct ck Surface r Well Data xplain in R inches); inches); inches); inches); inches); inches); inches); inches);	3) s (B14) Odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi FAC-Ne	Soil Cracks (B6) te Patterns (B10) ason Water Table (C2) the Burrows (C8) ton Visible on Aerial Imagery (C9) tor Stressed Plants (D1) rephic Position (D2) autral Test (D5)
Process Process Process Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Coffield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present?	erial Imagery ncave Surface Yes Yes Yes ream gauge,	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B7) Gauge o e (B8) Other (E	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface or Well Data xplain in R inches): inches): ul photos, p	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfish Stunted Geomol FAC-Ne	Soil Cracks (B6) se Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) sutral Test (D5)
Process Process Process Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Coffield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present? Sociation Present?	erial Imagery ncave Surface Yes Yes Yes ream gauge,	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B7) Gauge o e (B8) Other (E	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface or Well Data xplain in R inches): inches): ul photos, p	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfish Stunted Geomol FAC-Ne	Soil Cracks (B6) the Patterns (B10) the Patterns (B10) the Patterns (B10) the Surrows (C8) the Surrows (C8) the Visible on Aerial Imagery (C9) the or Stressed Plants (D1) the Position (D2) the Position (D5)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Scaturation Present? Sincludes capillary fringe) Describe Recorded Data (signaple located on top	erial Imagery ncave Surface Yes Yes Yes ream gauge,	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B7) Gauge o e (B8) Other (E No Depth (i No Depth (i Mo Depth (i	tained Lea Fauna (B1) uatic Plants n Sulfide C I Rhizosph e of Reduc ron Reduc ck Surface or Well Data xplain in R inches): inches): ul photos, p	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainag Dry-Sea Crayfish Stunted Geomol FAC-Ne	Soil Cracks (B6) se Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) sutral Test (D5)

Project/Site: Byron Solar			City/Co.	inty: Dodge		Sam	pling Da	ate: 202	<u>0-10-30</u>
Applicant/Owner: EDF Renewables	3				State: Min	nesota Sam	pling Po	oint NW-	-19
Investigator(s): David Kuhlmann			Section	, Township, Ra	nge: Section 11	, T106N, F	₹16W		
Landform (hillslope, terrace, etc.); Up					(concave, convex				
Slope (%): 2-5 Lat: 43.99	55139		Long:	92.7023610		Date	ım: NA	D 83	
Soil Map Unit Name: Nasset-Winnesh	ek complex, 12	to 18 percent slo	pes, mo	derately eroded	(M527D2) NWI	classification	None)	
Are climatic / hydrologic conditions on	he site typical	for this time of ye	ar? Yes	No No	(If no, expl	ain in Remar	ks.)		
Are Vegetation, Soil, or									No
Are Vegetation, Soil, or									
SUMMARY OF FINDINGS - A									res etc
		No	Jump	ing point i	oodiono, dan	, ini	portar	it ioutui	00, 000
Hydrophytic Vegetation Present? Hydric Soil Present?		No	1	s the Sampled	Area				
Wetland Hydrology Present?		No V	v	within a Wetlar	id? Ye	s	No	_	
Remarks				7 1 1 1					
Grassy swale, likely un	marked t	ile intake ı	orese	ent based	on hole ne	ar sam	nle n	oint	
orassy sware, intery arr	mankea	ine intake j	01000			Jai Jaiii	pic p	Onit	
VEGETATION - Use scientific	names of p	lants.							
		Absolute	Domin	nant Indicator	Dominance Te	st workshee	t		
Tree Stratum (Plot size: 30 ft r)	% Cover	Specie	es? Status	Number of Dom	inant Specie			
1			_		That Are OBL, F	ACW, or FA	C: 2		(A)
2			_		Total Number o				
3			-		Species Across	All Strata:	3		(B)
4			_		Percent of Dom				
9			= Total	Cover	That Are OBL, I	ACW, or FA	c: <u>67</u>		(A/B)
Sapling/Shrub Stratum (Plot size 1	5 ft r	_) -	- Total	Cover	Prevalence Ind	ex workshe	et:		
1)					Total % Co	ver of:			==
2			_		OBL species	0			_
3			_		FACW species				-
4,			_		FAC species	65		195	-
5			-		FACU species	_	x 4 =		
Herb Stratum (Plot size: 5 ft r			= Total	Cover	UPL species	0	x 5 =		- 10
1 Setaria pumila		40	/	FAC	Column Totals:	60	(A)	275	(B)
2 Elymus repens		20	~	FACU	Prevalenc	e Index = B/	A = 3.2	2	
3. Panicum capillare		20	V	FAC	Hydrophytic Vi	egetation Inc	dicators	:	
4. Ambrosia trifida		5		FAC	1 - Rapid T	est for Hydro	phytic V	egetation	
5.					✓ 2 - Domina	nce Test is >	50%		
6					3 - Prevaler	nce Index is:	≤3.0 ¹		
7.					4 - Morphol	ogical Adapt	ations¹ (Provide si	upporting
8						Remarks or o	1		
9,					Problemation	Hydrophytic	vegeta	tion (Exp	jain)
10					¹ Indicators of hy	ideia nail and	watland	budrolog	u mailet
Woody Vine Stratum (Plot size: 30	ft r	85%	= Total	Cover	be present, unle				y must
1					Hydrophytic				
					Vegetation	7.1	,		
2,									
2,			= Total	Cover	Present?	Yes	N	lo	-

Hydric Soil Indicators: Histosol (A1)	Disambia
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Pydric Soil Indicators:** Indicators for Indicators (Sa) Coast Prints (Sa) Coast Prints (Sa) Coast Prints (Sa) Sandy Redox (S5) Dark Sur Stripped Matrix (Sa) Dark Sur Stripped Matrix (Sa) Dark Sur Stripped Matrix (Sa) Dark Sur Stripped Matrix (Sa) Dark Sur Stripped Matrix (Sa) Dark Sur Stripped Matrix (Sa) Dark Sur Stripped Matrix (Sa) Dark Sur Stripped Matrix (Sa) Dark Sur Sur Stripped Matrix (Sa) Dark Sur Sur Stripped Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Depleted Matrix (Sa) Redox Dark Surface (Fa) Sandy Mucky Mineral (S1) Redox Dark Surface (Fa) Sandy Mucky Mineral (S1) Redox Dark Surface (Fa) Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (Fa) Mucky Peat or Peat (S3) Unless of Restrictive Layer (if observed): Type:	Remarks
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Pristic Epipedon (A2) Sandy Redox (S5) Dark Sur Black Histic (A3) Stripped Matrix (S6) Iron-Mar Loarny Mucky Mineral (F1) Very Sh: Stratified Layers (A5) Dark Sur Jave Matrix (F2) Depleted Matrix (F2) Other (E2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Depleted Dark Surface (F6) Redox Dark Surface (F7) Probleted Dark Surface (F7) Probleted Dark Surface (F8) Redox Depressions (F8) Redox Depressions (F8) Wetland Hydrology Indicators of wetland I unless of destrictive Layer (if observed): Type: Depth (inches): Depth (inc	
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Pristic Epipedon (A2) Sandy Redox (S5) Dark Sur Black Histic (A3) Stripped Matrix (S6) Iron-Mar Loarny Mucky Mineral (F1) Very Sh: Stratified Layers (A5) Dark Sur Jave Matrix (F2) Depleted Matrix (F2) Other (E2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Depleted Dark Surface (F6) Redox Dark Surface (F7) Probleted Dark Surface (F7) Probleted Dark Surface (F8) Redox Depressions (F8) Redox Depressions (F8) Wetland Hydrology Indicators of wetland I unless of destrictive Layer (if observed): Type: Depth (inches): Depth (inc	
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Indicators for Indi	
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Indicators for Indicators Indicators Indicators for Indicators f	
Indicators for Indi	PL=Pore Lining, M=Matrix.
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Pr Histosol (A2) Sandy Redox (S5) Dark Sur Black Histic (A3) Stripped Matrix (S4) Iron-Mar Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Very Sha Stratified Layers (A5) Depleted Matrix (F2) Other (E Depleted Below Dark Surface (A11) Pepleted Matrix (F3) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Redox Depressions (F8) Wetland I Som Mucky Peat or Peat (S3) Unless of Depteted Dark Surface (F6) Sandy Mucky Peat or Peat (S3) Unless of Depteted Dark Surface (F6) Wetland Hydrology Indicators: Type: Depth (Inches): Itemarks: **PROLOGY** **Vetland Hydrology Indicators: **Inimary Indicators (minimum of one is required; check all that apply) Secondary Surface Water (A1) Water-Stained Leaves (B9) Surface Saturation (A3) Darins Saturation (A3) True Aquatic Plants (B14) Drains Saturation (A3) True Aquatic Plants (B14) Drains Saturation (A3) True Aquatic Plants (B14) Drains Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Satura Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfi Sediment Deposits (B3) Presence of Reduced fron (C4) Stunte Iron Deposits (B3) Presence of Reduced fron (C4) Stunte Iron Deposits (B5) Thin Muck Surface (C7) Facch Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Ield Observations: Unificators (S5) Uniforhes): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Pr	or Problematic Hydric Soils ³ :
Histic Epipedon (A2) Sandy Redox (S5) Dark Sur Black Histic (A3) Iron-Mar Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shi Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (E Depleted Below Dark Surface (A11) Depleted Matrix (F3) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Depleted Dark Surface (A12) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Sindicators of wetland I unless of testrictive Layer (if observed): Type: Depth (inches): Hydroc (A12) Aquatic Fauna (B13) Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F7) Secondary Surface (F8) S	rairie Redox (A16)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shi Stratified Layers (A5) Depleted Matrix (F2) Other (E 2 cm Muck (A10) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sindicators of wetland I 5 cm Mucky Mineral (S1) Redox Depressions (F8) wetland I 5 cm Mucky Peat or Peat (S3) unless of testrictive Layer (if observed): Type: Depth (inches): Hydric Soil P Wetland Hydrology Indicators: Inmary Indicators (minimum of one is required: check all that apply) Secondary High Water Table (A2) Aquatic Fauna (B13) Draina High Water Table (A2) Aquatic Fauna (B13) Draina Surface Water (A1) Hydrogen Sulfide Odor (C1) Crayfi Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Satura Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geometric Iron Deposits (B5) Thin Muck Surface (C7) FAC-I Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Weltard Table Present? Yes No Depth (inches): Wetland Hydrology Indicators on the Pool of the P	face (S7)
Stratified Layers (A5)	iganese Masses (F12)
2 cm Muck (A10) Depleted Below Dark Surface (A11) Percentage Relow Dark Surface (A12) Sandy Mucky Mineral (S1) Set Mucky Peat or Peat (S3) Redox Depressions (F8) wetland I unless destrictive Layer (if observed):	allow Dark Surface (TF12)
Depleted Below Dark Surface (A12)	xplain in Remarks)
Thick Dark Surface (A12) Depleted Dark Surface (F7)	
Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland I unless of unless of testrictive Layer (if observed): Type: Depth (inches): Hydric Soil P Wetland Hydrology Indicators: Wetland Hydrology Indicators: Water All	f hydrophytic vegetation and
round by Peat or Peat (S3) restrictive Layer (if observed): Type: Depth (inches): Remarks: Page	nydrology must be present,
Restrictive Layer (if observed): Type:	isturbed or problematic.
TOROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Vater Marks (B8) Drift Deposits (B5) Drift De	1-2-2-5-C10 1-3-6-35-61-
Accordance of Reduced Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Iron De	
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Surface Water (A1) Water-Stained Leaves (B9) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Dry-Si Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation (C4) Fresence of Reduced Iron (C4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Watland Hydrology Indicators: Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: rassy swale, likely tiled but unable to confirm	resent? Yes No
Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Marks (B8) Depth (inches): Water Marks (B1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) FAC-N Inundation Visible on Aerial Imagery (B7) Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Pe	
Surface Water (A1)	
High Water Table (A2)	Indicators (minimum of two require
Saturation (A3)	ce Soil Cracks (B6)
Water Marks (B1)	age Patterns (B10)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Ves No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Pepth (inches	eason Water Table (C2)
Drift Deposits (B3)	sh Burrows (C8)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geom Iron Deposits (B5) Thin Muck Surface (C7) FAC-No. Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Table Present? Yes No Depth (inches): Surface Water Table Present? Yes No Depth (inches): Surface Water Table Present? Yes No Pepth (inches): Surface Water Table Present? Yes No Pepth (inches): Surface Water Present? Yes No Pepth (inches):	ation Visible on Aerial Imagery (C9)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-No	ed or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) [ield Observations: Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Simple Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available: Present Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available:	orphic Position (D2)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Surface Water Present? Yes No Oepth (inches): Vater Table Present? Yes No Depth (inches): Staturation Present? Yes No Staturation Present? Yes No Staturation Present? Yes	Neutral Test (D5)
Surface Water Present? Yes No Depth (inches); Vater Table Present? Yes No Depth (inches); Saturation Present? Yes No Depth (inches); Saturation Present? Yes No Depth (inches); Wetland Hydrology Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Prassy swale, likely tiled but unable to confirm	
Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Trassy swale, likely tiled but unable to confirm	
Vater Table Present? Yes No Depth (inches): Baturation Present? Yes No Depth (inches): Modes capillary fringe) Wetland Hydrology Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available: rassy swale, likely tiled but unable to confirm	
Saturation Present? Yes No Depth (inches): Wetland Hydrology Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available: trassy swale, likely tiled but unable to confirm	
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: rassy swale, likely tiled but unable to confirm	Sand the san train.
rassy swale, likely tiled but unable to confirm	Present? Yes No
Remarks:	

Project/Site: Byron Solar	c	ity/County: Dodge		Sampling Date: 2020-10-30
Applicant/Owner: EDF Renewables				Sampling Point: NW-20
nvestigator(s): David Kuhlmann	s	ection, Township, Ra	nge: Section 11, T106N	N, R16W
Landform (hillslope, terrace, etc.): Upland,			(concave, convex, none): _	
Slope (%): 0-2 Lat. 43.994867	·t	ong: -92.699805	1	Datum: NAD 83
Soil Map Unit Name: Oran silt loam, 1 to	o 4 percent slopes (M	508A)	NWI classifica	lion: None
Are climatic / hydrologic conditions on the sit	e typical for this time of year	r? Yes No	(If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydr	ology significantly d	isturbed? Are	'Normal Circumstances" pre	esent? Yes No
Are Vegetation, Soil, or Hydr			eeded, explain any answers	
SUMMARY OF FINDINGS - Attac	h site map showing :	sampling point le	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present? Y	'es No		1.40	
	es V No	Is the Sampled		
Wetland Hydrology Present?	'es No	within a Wetlan	nd? Yes	No
Remarks:				
Harvested and tilled corn	field, slight slopiı	ng swale		
VEGETATION – Use scientific nam	os of plants			
VEGETATION - Ose scientific flam		Dominant Indicator	Dominance Test works	heet:
Tree Stratum (Plot size: 30 ft r	_) % Cover	Species? Status	Number of Dominant Spe	
1			That Are OBL, FACW, or	
2			Total Number of Domina	nt
3			Species Across All Strata	
4			Percent of Dominant Spe	ecies
5		* .1*	That Are OBL, FACW, or	FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size 15 ft r		Total Cover	Prevalence Index works	sheet:
10			Total % Cover of:	Multiply by:
2			OBL species 0	x 1 = 0
3.			1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	x 2 = 0
4,				x 3 = 0
5			FACU species 0	
Herb Stratum (Plot size: 5 ft r	· —	Total Cover	UPL species 0	x 5 = 0
1.	-1		Column Totals: 0	(A) 0 (B)
2,			Prevalence Index :	= B/A = 0.0
3.			Hydrophytic Vegetation	Indicators:
4.			1 - Rapid Test for Hy	drophytic Vegetation
5.			2 - Dominance Test	is >50%
6			3 - Prevalence Index	is ≤3.0 ¹
7.			4 - Morphological Ac	aptations1 (Provide supporting
8				or on a separate sheet)
9,			Problematic Hydroph	nytic Vegetation¹ (Explain)
10			Indicators of hydric soil	and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r		Total Cover	be present, unless distur	
1			Hydrophytic	
			Vegetation	
2		Total Cover	Present? Yes	No

(inches) 0 - 24	Matrix			ox Feature			21	47.4
0 - 24	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Remarks
<u> </u>	10YR 2/1	95	10YR 3/4	5	С	М	Clay	
-								
			9	100				
			-		-	_		
			, 					
-								
Type: C=Co	ncentration D=De	nletion RN	/=Reduced Matrix, N	IS=Maska	d Sand G	rains	21 ocation:	PL=Pore Lining, M=Matrix.
ydric Soil Ir		pionori, ran	Treduced Madis, I	no-maske	u ounu o	dirio.		or Problematic Hydric Soils ³ :
Histosol (Sandy	Gleyed M	atrix (S4)			rairie Redox (A16)
	pedon (A2)			Redox (S				rface (S7)
Black His				ed Matrix (nganese Masses (F12)
	Sulfide (A4)			Mucky M				allow Dark Surface (TF12)
Stratified	Layers (A5)		Loamy	Gleyed N	latrix (F2)		Other (E	xplain in Remarks)
_ 2 cm Muc				ed Matrix				
	Below Dark Surfa	ce (A11)		Dark Surf			40.00	and the same of the same
	k Surface (A12)			ted Dark S	The state of the s)		of hydrophytic vegetation and
The second secon	ucky Mineral (S1)	221	Redox	Depression	ons (F8)			hydrology must be present,
	cky Peat or Peat (S ayer (if observed						uniess o	listurbed or problematic
	ayer (ii observed	,.						
							The second second second second	TANK TO 20
Туре:			_				Hydric Soil P	resent? Yes No
	nes):						Hydric Soil F	resent? Yes No
Type: Depth (inci			=				Hydric Soil F	resent? Yes No
Type: Depth (incl emarks:	SY.						Hydric Soil F	resent? Yes No
Type: Depth (incl emarks: /DROLOG	SY rology Indicators							
Type: Depth (incidental contents) YDROLOG Vetland Hyderimary Indica	SY rology Indicators ators (minimum of		uired; check all that a				Secondar	y Indicators (minimum of two require
Type: Depth (incident for the content of the	GY rology Indicators ators (minimum of Vater (A1)		Water-St	ained Lea			Secondar Surfa	y Indicators (minimum of two require ce Soil Cracks (B6)
Type: Depth (incl emarks: **COROLOG Vetland Hyderimary Indicate Surface V High Wate	SY rology Indicators ators (minimum of Vater (A1) er Table (A2)		Water-St	ained Lea Fauna (B1)	3)		Secondar Surfa Drain	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10)
Type: Depth (incl emarks: TDROLOG Vetland Hyd rimary Indica Surface V High Wat Saturation	orology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3)		Water-St Aquatic F True Aqu	ained Lear auna (B1) atic Plants	3) s (B14)		Secondar Surfa Drain Dry-S	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) ieason Water Table (C2)
Type: Depth (incl emarks: TDROLOG Vetland Hydrimary Indica Surface V High Wate Saturation Water Ma	orology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1)		Water-St Aquatic F True Aqu Hydroge	ained Lea Fauna (B1) natic Plants	3) s (B14) odor (C1)		Secondan Surfa Drain Dry-S Crayf	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8)
Type: Depth (incl demarks: TOROLOG Vetland Hydi rimary Indica Surface V High Wate Saturation Water Ma Sediment	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) Deposits (B2)		Water-Si Aquatic I True Aqu Hydroge Oxidized	ained Lea Fauna (B1) uatic Plants n Sulfide C Rhizosphi	3) s (B14) odor (C1) eres on Li		Secondar Surfa Drain Dry-S Crayf (C3) Satur	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
Type: Depth (incident for the content of the	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) de Deposits (B2) posits (B3)		Water-Si Aquatic f True Aqu Hydroge Oxidized Presence	ained Lea Fauna (B1; latic Plants n Sulfide C Rhizosphi e of Reduc	3) s (B14) odor (C1) eres on Li ed Iron (C	4)	Secondar Surfa Drain Dry-S Crayf S (C3) Stunt	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Type: Depth (incident of the content of the c	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) c Deposits (B2) or Crust (B4)		Water-Si Aquatic f True Aqu Hydroge Oxidized Presence	ained Lear Fauna (B1: patic Plants on Sulfide C Rhizospho of Reduction Reduction	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille	4)	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt G6)	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type: Depth (incidental final	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) c Deposits (B2) or Crust (B4) osits (B5)	one is requ	Water-Si Aquatic f True Aqu Hydroge Oxidized Presence Recent li	ained Lear Fauna (B1: patic Plants n Sulfide C Rhizosphi e of Reduct on Reduct ck Surface	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7)	4)	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt G6)	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Type: Depth (incidental final f	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) osits (B3) or Crust (B4) posits (B5) in Visible on Aerial	one is requ	Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent It Thin Muc	ained Lear Fauna (B1; natic Plants n Sulfide C Rhizospho e of Reduct ron Reduct ck Surface r Well Data	B) s (B14) dor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	4)	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt G6)	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type: Depth (incl emarks: TOROLOG Vetland Hydrimary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) or Crust (B4) osits (B5) n Visible on Aerial Vegetated Concar	one is requ	Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent It Thin Muc	ained Lear Fauna (B1: patic Plants n Sulfide C Rhizosphi e of Reduct on Reduct ck Surface	B) s (B14) dor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	4)	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt G6)	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type: Depth (incidenarks: TOROLOG TOROLO	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) irks (B1) ir Deposits (B2) posits (B3) or Crust (B4) posits (B5) in Visible on Aerial Vegelated Concar ations:	one is requi	Water-St Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent II Thin Muc B7) Gauge o (B8) Other (E	ained Lear Fauna (B1: natic Plants n Sulfide C Rhizospho e of Reduction ron Reduction ck Surface r Well Data xplain in R	B) s (B14) dor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	4)	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt G6)	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type: Depth (incidental final	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concar ations:	I Imagery (Ive Surface	Water-Si Aquatic if True Aqu Hydroge Oxidized Presence Recent in Thin Muc B7) Gauge o (B8) Other (E	ained Lear Fauna (B1; natic Plants n Sulfide C Rhizospho e of Reduc- ron Reduc- ck Surface r Well Data xplain in R	B) s (B14) dor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	4)	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt G6)	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type: Depth (incidental final	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) in Visible on Aerial Vegelated Concar ations: r Present?	I Imagery (Ive Surface Yes	Water-Si Aquatic if True Aqu Hydroge Oxidized Presence Recent in Thin Muc B7) Gauge o (B8) Other (E	ained Lear Fauna (B1; natic Plants n Sulfide C Rhizosphe of Reduct ron Reduct ck Surface r Well Data xplain in R nches);	B) s (B14) dor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9)	(4) ed Soils (C	Secondar Surfa Drain Dry-S Crayf (C3) Satur Stunt FAC-	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Type: Depth (incidential contential co	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concar ations: Present? Present?	I Imagery (I ve Surface Yes Yes	Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent It Thin Muc B7) Gauge o (B8) Other (E No Depth (it) No Depth (it)	ained Lear Fauna (B1; latic Plants In Sulfide C Rhizosphi In of Reduct In Reduct In Reduct In Sulface In Well Data Inches); Inche	3) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	(4) ed Soils (C	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt FAC-	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type:	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) in Visible on Aerial Vegetated Concar ations: r Present? Present? llary fringe) orded Data (strean	I Imagery (I ve Surface Yes Yes Yes m gauge, n	Water-St Aquatic f Aquatic f True Aqu Hydroge Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E No Depth (i No Depth (i nonitoring well, aeria	ained Lear Fauna (B1; autic Plants in Sulfide C Rhizosphi e of Reduct fron Red	B) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	Wet spections)	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt FAC-	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) sish Burrows (C8) atton Visible on Aerial Imagery (C9) atton Visible on Aerial Imagery (C9) atton Visible on Aerial Imagery (C9) atton Visible on Aerial Imagery (C9) atton Visible on Aerial Imagery (C9) atton Visible on Aerial Imagery (C9) atton Visible On Aerial Imagery (C9) att
Type:	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) in Visible on Aerial Vegetated Concar ations: r Present? Present? llary fringe) orded Data (strean	I Imagery (I ve Surface Yes Yes Yes m gauge, n	Water-St Aquatic f Aquatic f True Aqu Hydroge Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E No Depth (i No Depth (i nonitoring well, aeria	ained Lear Fauna (B1; autic Plants in Sulfide C Rhizosphi e of Reduct fron Red	B) s (B14) odor (C1) eres on Li ed Iron (C tion in Tille (C7) a (D9) emarks)	Wet spections)	Secondar Surfa Drain Dry-S Crayf S (C3) Satur Stunt FAC-	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Byron Solar		City/	County: Dodge		Sampling Date: 202	0-10-30
Applicant/Owner: EDF Renewables					Sampling Point: NW-	21
Investigator(s): David Kuhlmann		Sect	lion, Township, Ra	nge: Section 11, T10	6N, R16W	
Landform (hillslope, terrace, etc.): Upla				(concave, convex, none,		
Slope (%); 2-5 Lat: 44.002	574	Long	-92.709504		Datum: NAD 83	
Soil Map Unit Name: Readlyn silt lo	am, 1 to 3 pe	ercent slopes (M	511A)	NWI classifi	ication: None	
Are climatic / hydrologic conditions on the	ne site typical fo	r this time of year?	Yes No_	(If no, explain in I	Remarks.)	
Are Vegetation, Soil, or				"Normal Circumstances"		No V
Are Vegetation, Soil, or				eeded, explain any answ		
SUMMARY OF FINDINGS - A						es, etc.
Hydrophytic Vegetation Present?	Yes	No.		1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A TENED MANAGEMENT	
Hydric Soil Present?		No	Is the Sampled			
Wetland Hydrology Present?	Yes	No	within a Wetlan	nd? Yes	No	
Remarks:						
Tilled field with slight swale, no flow/erosion	evidence of	f flow or standin	g water, aerial	signatures likely in	dicative of surficial	
VEGETATION – Use scientific r	names of pla	nts.				
30 ft r			minant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30 ft r		% Cover Sp	ecies? Status	Number of Dominant S That Are OBL, FACW,		(A)
2				Total Number of Domi	nant	
3				Species Across All Str	ata: 0	(B)
4				Percent of Dominant S		
5		7.	stal Caver	That Are OBL, FACW,	or FAC: 0	_ (A/B)
Sapling/Shrub Stratum (Plot size 15	5 ft r)	otal Cover	Prevalence Index wo	rksheet:	
10				Total % Cover of:		
2					x 1 = 0	_
3.				The state of the s	x 2 = 0	-
4,					x 3 = 0	-
5				FACU species 0		-
Herb Stratum (Plot size: 5 ft r		= To	otal Cover	UPL species 0	x 5 = 0	-
A STATE OF THE STA)			Column Totals: 0	(A) 0	(B)
1 2			FACU	Prevalence Inde	x = B/A = 0.0	
3.				Hydrophytic Vegetat	ion Indicators:	
4				1 - Rapid Test for	Hydrophytic Vegetation	
5.			FAC	2 - Dominance Te	est is >50%	
6			FAC	3 - Prevalence Inc	dex is ≤3.0 ¹	
7.				4 - Morphological	Adaptations [†] (Provide si	upporting
8.					ks or on a separate shee	
9,				Problematic Hydro	ophytic Vegetation¹ (Exp	lain)
10				4		
Woody Vine Stratum (Plot size: 30 to	ftr	= To	otal Cover	'Indicators of hydric so be present, unless dis	oil and wetland hydrology turbed or problematic.	y must
1				Hydrophytic		
0						
2.				Vegetation	an Na V	
		= To	otal Cover		es No	

Depth	Matrix			Redox Featu	res			
	olor (moist)	%	Color (mo		Type ¹	Loc ²	Texture	Remarks
0 - 8 10	YR 2/1	100	1					
8 - 24 10	YR 4/2	70	10YR 5/8	30	С	М	Clay	
		-	-			_		
			-					
Type: C=Concen		oletion, RN	/=Reduced Ma	atrix, MS=Mask	ed Sand G	rains.		PL=Pore Lining, M=Matrix.
lydric Soil Indica	ators:							or Problematic Hydric Soils ³ :
_ Histosol (A1)				Sandy Gleyed				airie Redox (A16)
_ Histic Epipedo				Sandy Redox (face (S7)
 Black Histic (A Hydrogen Sult 				Stripped Matrix Loamy Mucky I	the latest the second second			iganese Masses (F12) allow Dark Surface (TF12)
Stratified Laye				Loamy Gleyed				xplain in Remarks)
2 cm Muck (A	and the second second			Depleted Matri	Control of the Contro		_ 22.4.12	,
Depleted Belo	The state of the s	e (A11)		Redox Dark Su				
_ Thick Dark Su				Depleted Dark)		f hydrophytic vegetation and
_ Sandy Mucky		61	-	Redox Depress	ions (F8)			nydrology must be present,
_ 5 cm Mucky P estrictive Layer							unless d	isturbed or problematic
	(ii observeu)							
Typo:							Modela Call D	resent? Yes No
Type: Depth (inches): emarks:							Hydric Soil P	resent? YesNo
Depth (inches): emarks:							Hydric Soil P	resent? Yes No
Depth (inches): emarks: /DROLOGY							Hydric Soil P	resent? YesNo
Depth (inches): temarks: YDROLOGY Wetland Hydrolog	gy Indicators		uired; check all	I that apply)				
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog	gy Indicators (minimum of c			I that apply) ater-Stained Le	aves (B9)		Secondary	
Depth (inches): temarks: /DROLOGY /etland Hydrologrimary Indicators	gy Indicators (minimum of o		Wa	Anna Chille Co.			Secondary Surface	Indicators (minimum of two require
Depth (inches): temarks: YDROLOGY Vetland Hydrolog rimary Indicators Surface Water	gy Indicators: (minimum of o r (A1) able (A2)		Wa Aq	ater-Stained Le	13)		Secondary Surfac	Indicators (minimum of two required to soil Cracks (B6)
Depth (inches): temarks: YDROLOGY Vetland Hydrolog rimary Indicators Surface Water High Water Ta	gy Indicators: (minimum of o r (A1) able (A2)		Wa Aq Tru	ater-Stained Le uatic Fauna (B	13) ts (B14)		Secondary Surface Draina Dry-Sc	n Indicators (minimum of two require the Soil Cracks (B6) age Patterns (B10)
Depth (inches): temarks: YDROLOGY Vetland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	gy Indicators: (minimum of or (A1) able (A2) 3) (B1) posits (B2)		Wa Aqi Tru Hyo Ox	ater-Stained Le uatic Fauna (B ue Aquatic Plan drogen Sulfide idized Rhizosp	13) ts (B14) Odor (C1) heres on Li		Secondary Surface Draina Dry-Sc Crayfice (C3) Satura	v Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9)
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Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	gy Indicators: (minimum of or (A1) able (A2) B) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerial elated Concavins: esent? (?) fringe) d Data (strean	Imagery (I e Surface /es /es	Wa Aq	ater-Stained Le uatic Fauna (B ue Aquatic Plan drogen Sulfide idized Rhizosp esence of Redu cent Iron Redu in Muck Surfac uuge or Well Da ner (Explain in epth (inches): epth (inches):	ts (B14) Odor (C1) heres on Liviced Iron (C ction in Tille e (C7) ta (D9) Remarks)	4) ed Soils (C	Secondary Surface Draina Dry-Sc Crayfice S (C3) Sature Stunte C6) Geom FAC-N	r Indicators (minimum of two requiresce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ad or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5)

Project/Site: Byron Solar		City/	County: Dodge		Sampling Date: 2020-10-31
Applicant/Owner: EDF Renewables				Sampling Point: NW-22	
Investigator(s): David Kuhlmann		Sect	ion, Township, Ra	nge: Section 10, T10	6N, R16W
Landform (hillslope, terrace, etc.): Uplan				(concave, convex, none):	
Slope (%): 2-5 Lat: 44.00611	19	Long	-92.728322		Datum: NAD 83
Soil Map Unit Name: Tripoli clay loam				NWI classific	ation: R4SBC
Are climatic / hydrologic conditions on the	site typical for th	is time of year?	Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hy	drology	significantly distu	rbed? Are	Normal Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hy	drology	naturally problem	natic? (If ne	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Atta	ach site map	showing sar	npling point le	ocations, transects	, important features, etc
Hydrophytic Vegetation Present?	YesN	Vo		1.40	
Hydric Soil Present?	YesN		Is the Sampled		.,
Wetland Hydrology Present?	Yes N	Vo_V	within a Wetlan	nd? Yes	No
Remarks: Tilled field with no evidence of co	oncave positi	onina. arassv	swale begins	offsite. located appr	oximately 2 feet lower in
elevation		3, 3 ,		, , , , , , , , , , , , , , , , , , , ,	
VEGETATION – Use scientific na	mes of plants				
Tree Stratum (Plot size: 30 ft r	_)		minant Indicator ecies? Status	Number of Dominant S That Are OBL, FACW,	pecies
23				Total Number of Domin Species Across All Stra	
4				Percent of Dominant Sp That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size 15 f			otal Cover	Prevalence Index wor Total % Cover of:	ksheet:
2				OBL species 0	x 1 = 0
3.				1000 NO 12 OF 150 NO	x 2 = 0
4,				FAC species 0	x 3 = 0
5				FACU species 0	x 4 = 0
Herb Stratum (Plot size: 5 ft r	- 1	= To	tal Cover	UPL species 0	x 5 = 0
1.		الرئسان	FAC	1 1 4 2	(A) 0 (B)
2,		-		Prevalence Index	
3		1	FACU	Hydrophytic Vegetation	
4			FACU	2 - Dominance Tes	Hydrophytic Vegetation
5				3 - Prevalence Inde	
6			4.5		Adaptations (Provide supporting
7.					s or on a separate sheet)
9,			FAC	Problematic Hydro	phytic Vegetation¹ (Explain)
10					
Woody Vine Stratum (Plot size: 30 ft			otal Cover	¹ Indicators of hydric soi be present, unless distr	l and wetland hydrology must urbed or problematic.
1		->		Hydrophytic	
2		100	otal Cover	Vegetation Present? Ye	s No

Depth Ma			dox Featur		1 . 2	41400	67. 4
(inches) Color (mois		Color (moist)	%	Type ¹	_Loc²	Texture	Remarks
0 - 24 10YR 2/1	98	10YR 3/4	2	_ <u>C</u>	M	Clay	
-							
					_		
			-		_		
200 7274 7000000	-	S 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	200 200		_		e Consulta - Close do
Type: C=Concentration, D lydric Soil Indicators:	Depletion, R	M=Reduced Matrix,	MS=Mask	ed Sand Gr	ains.		L=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol (A1)		Cons	ly Gleyed N	Antriu (CA)			irie Redox (A16)
Histic Epipedon (A2)			ly Redox (S			Coast Pra	14-9 S.M. W M. 1 - M. 1
Black Histic (A3)			ped Matrix				ganese Masses (F12)
Hydrogen Sulfide (A4)			y Mucky N				low Dark Surface (TF12)
Stratified Layers (A5)			y Gleyed f	The state of the s			plain in Remarks)
2 cm Muck (A10)			eted Matrix				
Depleted Below Dark S			x Dark Sur			200	
_ Thick Dark Surface (A1			eted Dark S	The second second second)		hydrophytic vegetation and
Sandy Mucky Mineral (Redo	x Depressi	ions (F8)			ydrology must be present,
5 cm Mucky Peat or Pe						unless dis	turbed or problematic.
Restrictive Layer (if obser	rea):						
Type:						Hydric Soil Pre	esent? Yes No
						Hydric Son Fit	esentr res No
Depth (inches):						riyunc son ric	esentr resNo
Depth (inches):Remarks:						nyunc son ric	esent? TesNO
Depth (inches):Remarks:						riyunc sui ric	esentr resNu
Depth (inches):Remarks: YDROLOGY Vetland Hydrology Indica							
Depth (inches):			A William Colored	out one		Secondary	Indicators (minimum of two require
Depth (inches):	of one is req	Water-S	Stained Lea			Secondary Surface	Indicators (minimum of two require s Soil Cracks (B6)
Depth (inches):	of one is req	Water-8 Aquatio	Stained Lea Fauna (B1	3)		Secondary Surface Drainag	Indicators (minimum of two require s Soil Cracks (B6) ge Patterns (B10)
Depth (inches):	of one is req	Water-8 Aquatio	Stained Lea Fauna (B1 quatic Plant	3) ts (B14)		Secondary Surface Drainag Dry-Sea	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is req	Water-S Aquatio True Ac Hydrog	Stained Lea Fauna (B1 juatic Plant en Sulfide (3) ts (B14) Odor (C1)	ina Poste	Secondary Surface Drainag Dry-See Crayfis	Indicators (minimum of two require a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8)
Depth (inches):	of one is req	Water-S Aquatio True Ao Hydrog Oxidize	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph	3) s (B14) Odor (C1) neres on Liv		Secondary Surface Drainag Dry-Sea Crayfisi	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is req	Water-8 Aquatio True Ao Hydrog Oxidize Presen	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc	3) ss (B14) Odor (C1) neres on Liv ced Iron (C	4)	Secondary Surface Drainag Dry-See Crayfise (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one is req	Water-8 Aquatio True Ao Hydrog Oxidize Present	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc	3) cs (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2)
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Depth (inches):	n of one is requered	Water-8 Aquatic True Ad Hydrog Oxidize Present Recent Thin Mo (B7) Gauge	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat	s (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille c (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2)
Print (inches): YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	n of one is requered	Water-8 Aquatic True Ad Hydrog Oxidize Present Recent Thin Mo (B7) Gauge	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat	s (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille c (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Print (inches): Proposits (B2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations:	erial Imagery	Water-8 Aquatio True Ad Hydrog Oxidize Present Recent Thin Mo (B7) Gauge	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat Explain in F	s (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille c (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Cofield Observations:	erial Imagery ncave Surface Yes	Water-8 Aquatio True Ad Hydrog Oxidize Present Recent Thin Mo (B7) Gauge (B8) Other (I	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat Explain in F	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Ction in Tille (C7) Is (D9) Remarks)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
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Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	erial Imagery ncave Surface Yes Yes Yes	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mo (B7) Gauge (B8) Other (I	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat Explain in F (inches): (inches): (inches):	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Ction in Tille Is (C7) Ita (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-See Crayfisi (C3) Saturat Stunted Geomo FAC-Nee	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2)
Depth (inches):	erial Imagery ncave Surface Yes Yes Yes	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mo (B7) Gauge (B8) Other (I	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat Explain in F (inches): (inches): (inches):	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Ction in Tille Is (C7) Ita (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-See Crayfisi (C3) Saturat Stunted Geomo FAC-Nee	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
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Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Cofield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (st	erial Imagery ncave Surface Yes Yes Yes	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mo (B7) Gauge (B8) Other (I	Stained Lea Fauna (B1 quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat Explain in F (inches): (inches): (inches):	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Ction in Tille Is (C7) Ita (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-See Crayfisi (C3) Saturat Stunted Geomo FAC-Nee	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar	C	ity/County: Dodge		Sa	mpling Date:	2020-10-31
Applicant/Owner: EDF Renewables					mpling Point:	
	S	Section, Township, Ra				
		Local relief				
		ong: -92.728350				3
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 per						
Are climatic / hydrologic conditions on the site typical for this ti						
Are Vegetation , Soil , or Hydrology sign						No.
Are Vegetation, Soil, or Hydrology nat	0.00		eded, explain any			
SUMMARY OF FINDINGS – Attach site map sh						esturas etc
		sampling point i	ocations, trai	isects, iii	iportant it	catures, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes V No		Is the Sampled	Area			
Wetland Hydrology Present? Yes No		within a Wetlan	nd? Ye	es	No	S
Remarks		1				
Tilled field with very slight depression but contin	ues to s	lope downward o	offsite into bro	me cover	ed field ed	ge and
healthy corn crop. Aerial photos show area of br	ome and	l nearby box elde	r tree, not wet	land sign	ature.	
VEGETATION – Use scientific names of plants.						
The country of the co	Absolute	Dominant Indicator	Dominance Te	st workshe	et:	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species? Status	Number of Dom		es	
1			That Are OBL, I	ACW, or F	4C: 0	(A)
2			Total Number o	f Dominant		
3			Species Across	All Strata:	0	(B)
4	-		Percent of Dom	inant Specie	es	
5		acutari r	That Are OBL, I	ACW, or F	AC: 0	(A/B)
Sapling/Shrub Stratum (Plot size 15 ft r)		Total Cover	Prevalence Ind	lex workship	eet:	
1			Total % Co	ver of:	Multip	ly by:
2.			OBL species	0	x 1 = 0	
3.			FACW species			
4,			FAC species	0	· 2 - 0	
			I AC species		_ X 3 - U	
5			FACU species			
5	_	Total Cover	The second secon	0		
5	_		FACU species	0	$\begin{array}{c} x 4 = \underline{0} \\ x 5 = \underline{0} \end{array}$	(B)
5		- Total Cover	FACU species UPL species Column Totals:	0 0	$\begin{array}{c} x 4 = \underline{0} \\ x 5 = \underline{0} \\ (A) \end{array}$	(B)
5		- Total Cover	FACU species UPL species Column Totals: Prevalence	0 0 0 e Index = E	$\begin{array}{c} x 4 = \underline{0} \\ x 5 = \underline{0} \\ (A) \end{array}$	(B)
5		- Total Cover	FACU species UPL species Column Totals: Prevalence Hydrophytic Verence	0 0 0 e Index = E	$\begin{array}{c} x \ 4 = \frac{0}{0} \\ x \ 5 = \frac{0}{0} \\ (A) & 0 \end{array}$ $A = \frac{0.0}{0}$ Addicators:	
5		- Total Cover	FACU species UPL species Column Totals: Prevalence Hydrophytic Vo. 1 - Rapid T	0 0 0 e Index = E	$\begin{array}{c} x \ 4 = \frac{0}{0} \\ x \ 5 = \frac{0}{0} \\ (A) \\ 0 \\ A/A = \frac{0.0}{0} \\ A/A = \frac{0.0}{$	
5		- Total Cover	FACU species UPL species Column Totals: Prevalence Hydrophytic Vi 1 - Rapid T 2 - Domina	0 0 0 e Index = E egetation Ir est for Hydrance Test is	$x 4 = \frac{0}{0}$ $x 5 = \frac{0}{0}$ $(A) \frac{0}{0}$ $x = \frac{0.0}{0}$	
5		= Total Cover	FACU species UPL species Column Totals: Prevalence Hydrophytic Vo. 1 - Rapid T 2 - Domina 3 - Prevale	0 0 0 e Index = E egetation Ir est for Hydrance Test is:	$x 4 = 0$ $x 5 = 0$ $(A) 0$ $MA = 0.0$ $Addicators: cophytic Vege > 50\%$ $\leq 3.0^{1}$	tation
5		- Total Cover	FACU species UPL species Column Totals: Prevalence Hydrophytic Vi 1 - Rapid T 2 - Domina 3 - Prevale 4 - Morphol	0 0 0 e Index = E egetation Ir est for Hydr nce Test is a nce Index is logical Adap	$x 4 = 0$ $x 5 = 0$ $(A) 0$ $MA = 0.0$ $Addicators: cophytic Vege > 50\%$ $\leq 3.0^{1}$	tation
5		FAC	FACU species UPL species Column Totals: Prevalence Hydrophytic Vi 1 - Rapid T 2 - Domina 3 - Prevale 4 - Morphol	0 0 0 ee Index = Eegetation In est for Hydrince Test is a nice Index is logical Adap Remarks or	$x 4 = 0$ $x 5 = 0$ $(A) 0$ $MA = 0.0$ $dicators:$ $ophytic Vege$ $>50%$ $\leq 3.0^{1}$ $tations^{1} (Proportion a separate$	tation vide supporting e sheet)
5		FAC	FACU species UPL species Column Totals: Prevalence Hydrophytic V 1 - Rapid T 2 - Domina 3 - Prevale 4 - Morpholodata in F Problematic	0 0 0 ee Index = Eegetation Ir est for Hydronce Test is ance Index is logical Adap Remarks or	$x = \frac{0}{0}$ $x = \frac{0}{0}$ $(A) = \frac{0.0}{0}$ $x = \frac{0.0}{0}$	vide supporting e sheet) ' (Explain)
5		FAC	FACU species UPL species Column Totals: Prevalence Hydrophytic Vo	0 0 0 e Index = E egetation Ir est for Hydrance Test is a noe Index is logical Adap Remarks or c Hydrophyt	$x = \frac{0}{0}$ $x = \frac{0}{0}$ $(A) = \frac{0.0}{0}$ $x = \frac{0.0}{0}$	tation vide supporting e sheet) 1 (Explain)
5		FAC FACU	FACU species UPL species Column Totals: Prevalence Hydrophytic V1 - Rapid T2 - Domina3 - Prevale4 - Morpholodata in FProblematic Indicators of hybe present, unle	0 0 0 e Index = E egetation Ir est for Hydrance Test is a noe Index is logical Adap Remarks or c Hydrophyt	$x = \frac{0}{0}$ $x = \frac{0}{0}$ $(A) = \frac{0.0}{0}$ $x = \frac{0.0}{0}$	tation vide supporting e sheet) 1 (Explain)
5		FAC FACU	FACU species UPL species Column Totals: Prevalence Hydrophytic Vi 1 - Rapid T 2 - Domina 3 - Prevalei 4 - Morpholodata in F Problematic	0 0 0 e Index = E egetation Ir est for Hydrance Test is a noe Index is logical Adap Remarks or c Hydrophyt	x = 0 $x = 0$ $x =$	vide supporting e sheet) ' (Explain) drology must atic.
5		FAC FACU	FACU species UPL species Column Totals: Prevalence Hydrophytic Vi1 - Rapid T2 - Domina3 - Prevale4 - Morpholodata in FProblematic Indicators of hybe present, unle	0 0 0 e Index = E egetation Ir est for Hydrance Test is a noe Index is logical Adap Remarks or c Hydrophyt	$x = \frac{0}{0}$ $x = \frac{0}{0}$ $(A) = \frac{0.0}{0}$ $x = \frac{0.0}{0}$	vide supporting e sheet) ' (Explain) drology must atic.

(inches) Color (moist) % Type Loc Testure Remarks O - 24 10YR 2/1 98 10YR 3/4 2 C M Clay Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Cocation: PL=Pone Lining, M=Matrix. **Indicators: Indicators:		atrix	_	Redox Featur				War to a
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Coastion: PL=Pore Lining, M=Matrix (MS=Masked Sand Grains.** **Indicators: Indicators: Indicators for Problematic Hydric Soile*:	managed (Company)	-			2.5.5.0.0	2 2 3 2 2 2		Remarks
Mistosol (A1)	0 - 24 10YR 2/1	98	10YR 3/4	2	_ <u>C</u>	M	Clay	
ydric Soil Indicators: Histosoi (A1) Histosoi (A2) Histosoi (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Stratfied Layers (A5) Loamy Gleyed Matrix (F1) Depleted Bern As Surface (F12) Other (Explain in Remarks) Depleted Watrix (F3) Depleted Bern Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Peat or Peat (S3) Sestrictive Layer (if observed): Type: Depleted Matrix (F3) Depleted Dark Surface (F7) Redox Depressions (F8) Wetland Hydrology must be present, unless disturbed or problematic. Wetland Hydrology Indicators: rimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Surface Water (A1) Water-Stained Leaves (B9) Aqualic Fauna (B13) Sourface Water (A3) Surface Soil Cracks (B6) Drainage Patterns (B10) Sediment Deposits (B3) True Aquasic Plants (B14) Water Marks (B1) Algal Mat or Crust (B4) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C8) Dark Surface (A12) Sediment Deposits (B3) Presence of Reduced from (C4) Suntace Or (C9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No Depth (inches): Introduction Visible on Aerial Imagery (F7) Secondary Indicators (minimum of two required to the concave Surface (B8) Other (Explain in Femarks) Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland H								
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ydric Soil Indicators: Histosoi (A1) Histosoi (A2) Histosoi (A2) Histosoi (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Hydrogen Sulfde (A4) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy McWy Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Peat or Peat (S3) Setrictive Layer (if observed): Type: Depleted Matrix (F3) Depleted Dark Surface (F7) Redox Depressions (F8) Wetland Hydrology must be present, unless disturbed or problematic. Setrictive Layer (if observed): Type: Deplth (inches): Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aqualic Fauna (B13) Sourface Water (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sutrace Soil Cracks (B6) Drinage Patterns (B10) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C8) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No Depth (inches): Introductors (Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (
Mistosol (A1)								
Mistosol (A1)								
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histos Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Striped Matrix (S6) Dark Surface (S7) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Tstratified Layers (A5) Loamy Gleyed Matrix (F2) Very Shallow Dark Surface (TF12) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Matrix (F3) Pepleted Delow Dark Surface (A11) Pepleted Dark Surface (F6) Depleted Dark Surface (F7) Pepleted Dark Surface (F7) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F7) Som Mucky Peat or Peat (S3) estrictive Layer (if observed): Type: Hydric Soil Present? Yes No Deplth (inches): ### Wydric Soil Present? Yes No ### No ### No ### Drainage Patterns (B10) Drainage Patterns (B1	Type: C=Concentration, I	Depletion,	RM=Reduced Mat	rix, MS=Mask	ed Sand G	rains.		
Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Suffide (A4) Loarny Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loarny Mucky Mineral (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F5) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Samdy Mucky Mineral (S1) Sem Mucky Peat or Peat (S3) Sestrictive Layer (if observed): Type: Depth (inches): Pepth (inches): Pepth (inches): Water-Stained Leaves (B9) Surface Water (A1) Hydrogoly Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required stripped in the stripped in	ydric Soil Indicators:						Indicators for	Problematic Hydric Soils ³ :
Black Histic (A3)	_ Histosol (A1)		S	andy Gleyed N	Matrix (S4)		Coast Pra	irie Redox (A16)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Pepleted Matrix (F3) Pepleted Below Dark Surface (A11) Pepleted Below Dark Surface (A11) Pepleted Below Dark Surface (A11) Pepleted Dark Surface (F3) Pepleted Dark Surface (F3) Pepleted Dark Surface (F3) Pepleted Dark Surface (F3) Pepleted Dark Surface (F3) Pepleted Dark Surface (F3) Sandy Mucky Mineral (S1) Send Mucky Mineral (S1) Secondary Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Problem Mucky Mineral (S1) **Mucky Mineral (S1								
Stratified Layers (A5)				The Mark Control of the Control of t	the second second			
Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Sendy Mucky Mineral (S3) Sestrictive Layer (if observed): Type: Depth (inches): Depth (inches)								
Depleted Below Dark Surface (A11)							Other (Ex	plain in Remarks)
Thick Dark Surface (A12)		Curfore (Add)						
Sandy Mucky Mineral (S1)						7)	3Indicators of	hydrophytic vegetation and
						1.		
estrictive Layer (if observed): Type:			"	cuon Depicso	10113 (1 0)			
Type:							100000	Control of the State of the Sta
PROLOGY Secondary Indicators: Secondary Indicators (minimum of two required stand Hydrology Indicators (minimum of one is required scheck all that apply) Secondary Indicators (minimum of two required surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Prainage Patterns (B10) Drainage Patterns (B1								
Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (C1) Acquatic Fauna (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Setiment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B5) Drift Deposits (B5) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots (C3) Driving Roots							Hydric Soil Pro	sent? Ves No
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High Water Table (A2)	emarks: 'DROLOGY /etland Hydrology Indic		equired; check all f	hat apply)				
Saturation (A3)	emarks: /DROLOGY /etland Hydrology Indication			mout with a bound	over (PO)		Secondary	Indicators (minimum of two require
Water Marks (B1)	PROLOGY Vetland Hydrology Indications (minimumary Indicators (minimumary Surface Water (A1)	m of one is re	Wate	er-Stained Lea			Secondary Surface	indicators (minimum of two require Soil Cracks (B6)
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	PROLOGY Vetland Hydrology Indications (minimumal of the content o	m of one is re	Wate Aqui True	er-Stained Lea atic Fauna (B1 Aquatic Plant	(3) ts (B14)		Secondary Surface Drainag Dry-Se	Indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: urface Water Present? Yes No Depth (inches): // Jeter Table Present? Yes No Depth (inches): // Depth (inches):	PROLOGY Vetland Hydrology Indications (minimumous Marce Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	m of one is re	Wate Aque True Hyde	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (13) ts (B14) Odor (C1)	vina Roots	Secondary Surface Drainag Dry-See Crayfis	Indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8)
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Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: urface Water Present?	Processits (B2) Processits (B2) Permarks: Processits (B2) Processits (B3) Processits (B3)	m of one is re	Wate Aqui True Hydi Oxid Pres	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph ence of Redu	(3) ts (B14) Odor (C1) neres on Li ced Iron (C	(4)	Secondary Surface Drainag Dry-See Crayfisi s (C3) Saturat Stunted	indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) for Stressed Plants (D1)
	PROLOGY Vetland Hydrology Indications (minimumous findicators (minimumous fin	m of one is re	Wate Aqui True Hyde Oxid Pres Rec	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph sence of Reducent Iron Reducent	ts (B14) Odor (C1) neres on Li ced Iron (C ction in Tillo	(4)	Secondary Surface Drainag Dry-Se Crayfis s (C3) Saturat Stunted	indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): uncludes capillary fringe) rescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: rery slight depression in tilled corn field but continues to slope down offsite	POROLOGY Vetland Hydrology Indications (minimumary Indicators (minimumary Indicators (minimumary Indicators (Material) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	m of one is re	Wate Aque True Hyde Oxid Pres Reco Thin	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph sence of Reducent Iron Reducent Muck Surface	ts (B14) Odor (C1) neres on Li ced Iron (C ction in Tille e (C7)	(4)	Secondary Surface Drainag Dry-Se Crayfis s (C3) Saturat Stunted	indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
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aturation Present? Yes No Depth (inches); Wetland Hydrology Present? Yes No Present Present? Yes No Present? No Present? No Present? Yes No Pr	PROLOGY Vetland Hydrology Indicators (minimumous Mater Mater (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegelated Collections:	m of one is re 2) Aerial Imagery oncave Surface		er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph ence of Reducent Iron Reducent Iron Reducent Muck Surfacent (Explain in Facent Parker)	ts (B14) Odor (C1) neres on Li ced Iron (C ction in Tille e (C7) ta (D9)	(4)	Secondary Surface Drainag Dry-Se Crayfis s (C3) Saturat Stunted	indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: ery slight depression in tilled corn field but continues to slope down offsite	POROLOGY Vetland Hydrology Indications (minimus Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Collections: urface Water Present?	m of one is re 2) Aerial Imagery oncave Surface Yes	Wate Aqui True Hyde Oxid Pres Rece Thin y (B7) Gau ce (B8) Othe	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph sence of Reducent Iron Reducent Iron Reducent Iron Reducent Muck Surfacent George or Well Dater (Explain in Facet);	ts (B14) Odor (C1) neres on Li ced Iron (C ction in Tille e (C7) ta (D9)	(4)	Secondary Surface Drainag Dry-Se Crayfis s (C3) Saturat Stunted	indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
ery slight depression in tilled corn field but continues to slope down offsite	VDROLOGY Vetland Hydrology Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Collections: Surface Water Present?	m of one is re 2) Aerial Imagery oncave Surface Yes Yes	Wate Aqua True Hyde Oxid Pres Rece Thin y (B7) Gau ce (B8) Othe No Dep No Dep	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph sence of Reduce ent Iron Reduce Muck Surface ge or Well Dater (Explain in Footh (inches):oth (inches);	ts (B14) Odor (C1) neres on Li ced Iron (C ction in Tille e (C7) ta (D9)	(4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis s (C3) Saturat Stuntec Geomo	indicators (minimum of two requires Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) of or Stressed Plants (D1) rphic Position (D2) geutral Test (D5)
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temarks:	VPROLOGY Vetland Hydrology Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Collider Observations: Surface Water Present? Vater Table Present? Includes capillary fringe) Describe Recorded Data (se	m of one is re 2) Aerial Imagery oncave Surface Yes Yes Yes Stream gauge	Wate Aqua Aqua Aqua True Hydron Aqua	er-Stained Lea atic Fauna (B1 a Aquatic Plant rogen Sulfide (lized Rhizosph sence of Redu- ent Iron Reduc Muck Surface ge or Well Dat er (Explain in F oth (inches): oth (inches): aerial photos,	ts (B14) Odor (C1) neres on Li ced Iron (C ction in Tille e (C7) ta (D9) Remarks)	Wed Spections)	Secondary Surface Drainag Dry-Se Crayfis Stunted Stunted FAC-Ne tland Hydrology P	indicators (minimum of two require soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
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Project/Site: Byron Solar		City/County: Dodge				Sampling Date: 2020-10-31			
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: NW-24					-24		
Investigator(s): David Kuhlmann			Section,	Township, Rai	nge: Section 3,	T106N, R	16W		
Landform (hillslope, terrace, etc.): Upla					(concave, convex				
Slope (%): 2-5 Lat: 44.0138	374							D 83	
Soil Map Unit Name: Tripoli clay loa	m, 0 to 2 p	ercent slopes	(M515	iA)	NWI	classification	None)	
Are climatic / hydrologic conditions on th	e site typical	for this time of ye	ar? Yes	✓ No	(If no, expl	ain in Remar	ks.)		
Are Vegetation, Soil, or I	-lydrology	significantly	disturbe	d? Are	Normal Circumsta	ances" preser	nt? Yes	5	No V
Are Vegetation, Soil, or I	Hydrology	naturally pro	blematic	? (If ne	eded, explain any	answers in	Remarks	s.)	
SUMMARY OF FINDINGS - A					ocations, tran	sects, im	portan	t featu	res, etc.
Hydrophytic Vegetation Present?	4 11-40-	No_		7,9,	2210625640			- Levente	
Hydric Soil Present?	Yes 🗸	No	Is	the Sampled					
Wetland Hydrology Present?	Yes	No	W	vithin a Wetlar	id? Ye	s	No		
Remarks									-
Grassy swale dominate	d by qua	ack grass a	and s	mooth br	ome				
are the firm of the court of the	10.00 7.00								
VEGETATION – Use scientific r	ames of pl								
Tree Stratum (Plot size: 30 ft r	-)	Absolute % Cover		ant Indicator	Dominance Tes				
1.					Number of Dom That Are OBL, F				(A)
2.									1.30
3					Total Number of Species Across		3		(B)
4.					December of Dom	innet Canala			- 240
5					Percent of Dom That Are OBL, F			3	(A/B)
Sapling/Shrub Stratum (Plot size 15	ft r	W 1	= Total	Cover	Prevalence Ind	lov worksho	ot:		
						ver of:		ultinly by	
1 2					OBL species	0			
3					FACW species				
4.					FAC species	33			
5.					FACU species	66		264	
A			= Total	Cover	UPL species	0	x 5 =	0	
Herb Stratum (Plot size: 5 ft r Bromus inermis)	33	/	FACU	Column Totals:	99	(A)	363	(B)
2 Elymus repens		33		FACU	Descriptions	e Index = B/	v = 3.7	7	
3 Setaria pumila		33	- V	FAC	Hydrophytic Ve	F. S. L. W. L. C. Britain,	No. of the		_
77			-	FAC		est for Hydro			,
4			-			nce Test is >		egetation	
56			_	FACU		nce Index is:			
			-	1700	4 - Morphol	recommendar.		Provide s	supporting
7 8			_			Remarks or o			
9,			_		Problemation	Hydrophytic	: Vegeta	tion' (Exp	plain)
10.									
0.77	tr	99%	= Total	Cover	¹ Indicators of hy be present, unle				y must
Woody Vine Stratum (Plot size: 30 f)					200		
1			-		Hydrophytic Vegetation				
			-		Present?	Yes	N	0	
4.			= Total	Cover	riesellir	163			_

Cools (most) 75	Depth _	Matrix	0/		ox Featur		12	T-100000	Districts
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	(inches)	Color (moist)	%%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
Mistosol (A1)	0-24 1	UYR Z/I	98	101K 3/4	- 2		IVI	Clay	
Micro Soil Indicators:							_		
Micro Soil Indicators:					-				
Micro Soil Indicators:									
Micro Soil Indicators:	- 1								
Morice Soil Indicators:					7				
Histosol (A1)				4	7		_		
Morice Soil Indicators:	Type: C=Conc	centration D=Der	oletion RM	EReduced Matrix N	IS=Masks	d Sand G	rains	21 ocation: F	PI =Pore Lining M=Matrix
Histlic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Loarny Mucky Mineral (F2) Strattled Layers (A5) Loarny Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Serior Mucky Peat or Peat (S3) Serior Mucky Peat or Peat (S3) Settrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Depleted Matrix (F3) Hydric Soil Present? Yes No Depleted Matrix (F3) Drainage Patterns (B10) Secondary Indicators (minimum of two requires the factor of			Jienon, Tin	Treduced Maths, N	NO NIGORE	u ound o	anto.		
Halsic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Very Shallow Dark Surface (F12) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loarny Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Dark Surface (A11) Finick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sem Mucky Peat or Peat (S3) Set indicators (F8) Type: Depth (inches): Wetland Hydrology Indicators: Fitnery Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two requires one in the property of the	Histosol (A	1)		Sandy	Gleyed N	latrix (S4)		Coast Pra	airie Redox (A16)
Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Mineral (S1) Depleted Dark Surface (F5) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3) Type: Deplth (inches): Deplth (inches): Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators (minimum of two requires of the control of the co		The second second							
Stratified Layers (A5)	_ Black Histic	(A3)							
								Other (Ex	plain in Remarks)
Thick Dark Surface (A12) Depleted Dark Surface (F7)		Mark Total Committee Commi	- /A44V						
Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches):			æ (A11)				2	3Indicators of	hydrophytic vegetation and
						the state of the s	1.		
Restrictive Layer (if observed): Type:			(3)		Боргосо	v.,e (, e)			
Depth (Inches):								1	
POROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Sediment Deposits (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Ino Deposits (B3) Algal Mat or Crust (B4) Ino Deposits (B5) Inudation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Vater Table Present? Yes No Depth (inches): Sedimant Deposent? Yes No Depth (inches): Sparsely Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Verance Vater (Aray Indicators (minimum of two requires secondary Indicators (minimum of two requires secondary Indicators (minimum of two requires sources (B6) Surface Soil Cracks (B6) Driange Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Surface Note (C1) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D1) FAC-Neutral Test (D5) Inudation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No We	Type:							100000	ov = 1 = 1
VPDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required, check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Porit Deposits (B2) Drift Deposits (B3) Presence of Reduced fron (C4) Algal Mat or Crust (B4) Agaiged Mater of Crust (B4) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water (A1) Water Marks (B14) Presence of Reduced fron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Wetland Inches): No Wetland Inches Yes No Wetland	Depth (inche	es):						Hydric Soil Pr	esent? Yes No
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stalined Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inuidation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Marks (B1) Secondary Indicators (minimum of two required solid conditions (B6) Surface Soil Cracks (B6) Drianage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inuidation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Pepth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Parassy swale	Remarks:								
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High Water Table (A2)	YDROLOGY	r							
Saturation (A3)	YDROLOGY	Y ology Indicators		ired; check all that a	apply)			Secondary	Indicators (minimum of two require
Water Marks (B1)	YDROLOGY Vetland Hydro Primary Indicato	Y ology Indicators ors (minimum of o				ves (B9)		THE R. P. LEWIS CO., LANSING, MICH.	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5)	YDROLOGY Vetland Hydro Primary Indicato Surface Wa	Y ology Indicators ors (minimum of o ater (A1)		Water-St	ained Lea			Surface	e Soil Cracks (B6)
	YDROLOGY Vetland Hydro Primary Indicato Surface Wa High Water	ology Indicators ors (minimum of eater (A1) Table (A2)		Water-St Aquatic F	ained Lea auna (B1	3)		Surface Draina	e Soil Cracks (B6) ge Patterns (B10)
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Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Geld Observations: Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Seturation Present? Yes No Depth (inches):	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos	ology Indicators ors (minimum of o ater (A1) Table (A2) (A3) (A3) (A5 (B1) Deposits (B2) or Crust (B4)		Water-St Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea Fauna (B1 natic Plant n Sulfide (Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Li ced Iron (C	4)	Surface Draina Dry-Se Crayfis (C3) Satural	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Gurface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Sincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Strassy swale	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos	r Crust (B4)	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea Fauna (B1 latic Plant In Sulfide (Rhizosph e of Reduc on Reduc k Surface	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stuntee	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Surface Water Present? Yes No Depth (inches):	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi	ology Indicators ors (minimum of orseter (A1) Table (A2) (A3) (S (B1) Deposits (B2) or Crust (B4) its (B5) Visible on Aerial	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea Fauna (B1 Iatic Plant In Sulfide (Rhizosph In Graductor In Reductor In Reductor In Well Dat	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stuntee	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrolog	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation (Sparsely Ve	Y Ilogy Indicators ors (minimum of orater (A1) Table (A2) (A3) (S (B1) Deposits (B2) or Crust (B4) its (B5) Visible on Aerial egelated Concav	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea Fauna (B1 Iatic Plant In Sulfide (Rhizosph In Graductor In Reductor In Reductor In Well Dat	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stuntee	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Concludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Perassy swale	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation (Sparsely Veter (Selid Observate)	y logy Indicators ors (minimum of cater (A1) Table (A2) (A3) (S (B1) Deposits (B2) its (B3) or Crust (B4) its (B5) Visible on Aerial egelated Concavitors:	Imagery (E e Surface	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc 37) Gauge of (B8) Other (Ex	ained Lea Fauna (B1 Inatic Plant In Sulfide (Rhizosph In Grant In	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stuntee	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Frassy swale	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation Sparsely Veter Indicated Control Control Surface Water Indicated Control Contr	Y Illogy Indicators ors (minimum of eater (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Imagery (E e Surface	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex	ained Lea Fauna (B1 Instic Plant In Sulfide (Rhizosph In Reduction Reduction In Surface In Well Dat Inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Surface Draina Dry-Se Crayfis (C3) Satura Stuntee	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
rassy swale	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation Sparsely Veter Gurface Water F Vater Table Pre	ology Indicators ors (minimum of eater (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Imagery (E e Surface	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of (B8) Other (Ex	ained Lea Fauna (B1 Iatic Plant In Sulfide (Rhizosph In Reduction Reduction In Reduction Reduction In Reduction Reduction In Reduction Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Reduction In Inches (In Inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Surface Draina Dry-Se Crayfis Satura Stuntee 6)	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation Sparsely Veter Geteld Observat Surface Water F Vater Table Presence Includes capilla	y cology Indicators ors (minimum of eater (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Imagery (E e Surface /es /es	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of (B8) Other (Ex No Depth (in No Depth (in No Depth (in	ained Lea Fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- con Reduc- ck Surface ir Well Dat kplain in R inches): nches): nches): nches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) Remarks)	(4) ed Soils (C	Surface Drainae Dry-Se Crayfis (C3) Saturae Stuntee FAC-N	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
757,077,077	YDROLOGY Netland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depose Algal Mat of Iron Depose Inundation Sparsely Verield Observat Surface Water F Nater Table Presidudes capilla Describe Recon	ology Indicators ors (minimum of other (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	Imagery (E e Surface /es /es	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of (B8) Other (Ex No Depth (in No Depth (in No Depth (in	ained Lea Fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- con Reduc- ck Surface ir Well Dat kplain in R inches): nches): nches): nches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) Remarks)	(4) ed Soils (C	Surface Drainae Dry-Se Crayfis (C3) Saturae Stuntee FAC-N	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
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	YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation (Sparsely Vetel Observat Surface Water F Vater Table Presincludes capilla Describe Reconstrassy swale	ology Indicators ors (minimum of other (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	Imagery (E e Surface /es /es	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of (B8) Other (Ex No Depth (in No Depth (in No Depth (in	ained Lea Fauna (B1 latic Plant in Sulfide (Rhizosph e of Reduc- con Reduc- ck Surface ir Well Dat kplain in R inches): nches): nches): nches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) Remarks)	(4) ed Soils (C	Surface Drainae Dry-Se Crayfis (C3) Saturae Stuntee FAC-N	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020-10-31		
Applicant/Owner: EDF Renewables	S		State: Minnesota Sampling Point: NW-25				
Investigator(s): David Kuhlmann			Section, Township, Range: Section 3, T106N, R16W				
Landform (hillslope, terrace, etc.): Up				f (concave, convex, none):			
Slope (%): 2-5 Lat: 44.014	178		Long: -92.72182		Datum: NAD 83		
Soil Map Unit Name: Tripoli clay lo				NWI classific	ation: R4SBC		
Are climatic / hydrologic conditions on	the site typical for	or this time of ye	ar? Yes No	(If no, explain in Re	emarks.)		
Are Vegetation, Soil, or					resent? Yes No		
Are Vegetation, Soil, or				eeded, explain any answer			
SUMMARY OF FINDINGS - A							
Hydrophytic Vegetation Present?	Yes	No	111 / 2000	1.40			
Hydric Soil Present?	Yes 🗸	No	Is the Sample				
Wetland Hydrology Present?	Yes	No_V	within a Wetla	ind? Yes	No		
Remarks:			- '				
Grassy swale dominate	ed by smo	oth brom	е				
VEGETATION – Use scientific	names of pla	ants					
		Absolute	Dominant Indicator	Dominance Test works	sheet;		
Tree Stratum (Plot size: 30 ft r		% Cover	Species? Status	Number of Dominant Sp That Are OBL, FACW, of			
2							
3				Total Number of Domina Species Across All Strat			
4.							
5.				Percent of Dominant Sp That Are OBL, FACW, of			
Sapling/Shrub Stratum (Plot size: 1	5 ft r		= Total Cover	Descriptions Index word	ankent:		
				Prevalence Index work Total % Cover of:			
1			_		x = 0		
3.				FACW species 20	x 2 = 40		
4,				FAC species 10	x 3 = 30		
5.				FACU species 70	x 4 = 280		
1 A			= Total Cover	UPL species 0	x 5 = 0		
Herb Stratum (Plot size: 5 ft r)	70	✓ FACU	Column Totals: 100	(A) <u>350</u> (B)		
Bromus inermis		70			3.5		
Phalaris arundinacea		20 10	FACW FAC	Prevalence Index Hydrophytic Vegetatio	5-27 V. 1-2-2		
3. Poa pratensis			170		lydrophytic Vegetation		
4				2 - Dominance Tes			
5				3 - Prevalence Inde			
6			FACU		daptations [†] (Provide supporting		
7 8			FAC		or on a separate sheet)		
9,				Problematic Hydrop	phytic Vegetation (Explain)		
10.							
Woody Vine Stratum (Plot size: 30			= Total Cover	¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must rbed or problematic.		
1				Hydrophytic			
2.				Vegetation			
Mar Connect and			= Total Cover	Present? Yes	No		
Remarks: (Include photo numbers he	ere or on a sepa	rate sheet.)					

0 - 24 10YR 2/1 98 10YR 3/4 2 C M Clay		Describe
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.		Remarks
Histocol (A1)	101R 2/1 9	
Histocol (A1)		
Histosol (Ar) Sandy Gleyed Matrix (S4) Coast Praine Redox (A16)		
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Praine Redox (A16) Histosol (A1) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S8) Iron-Manganese Masses (F1 Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (S7) Depleted Alayers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Z cm Muck (A10) Depleted Below Dark Surface (A11) Pepleted Dark Surface (F6) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Other (Explain in Remarks) S cm Mucky Mineral (S1) Redox Depressions (F8) Unless disturbed or problems Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Yes Water Marks (B1) Aquatic Fauna (B13) Drainage Patterns (B10) Surface Water (A1) Water-Stained Leaves (B9) Surface (S0) Drainage Patterns (B10) S diffused Matrix (F3) Drainage Patterns (B10) S diffused Matrix (F3) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum		
Histocol (A1)	oncentration D=Depletic	PL=Pore Lining M=Matrix
Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F1 Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (S7) Stratified Layers (A5) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Matrix (F3) Other (Explain in Remarks) Depleted Matrix (F3) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Redox Depressions (F8) Wetland Hydrology must be punless disturbed or problems Depth (inches):		
Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F1 Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (S7) Stratified Layers (A5) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Matrix (F3) Other (Explain in Remarks) Depleted Matrix (F3) Other (Explain in Remarks) Depleted Matrix (F3) Other (Explain in Remarks) Presence (A12) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Sindicators of hydrophytic vegetive wetland hydrology must be punless disturbed or problems Wetland Hydrology Indicators (F8) Unless disturbed or problems Depth (inches): Depth (inches): Water Afable (A2) Aquatic Fauna (B13) Dirainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (B2) Drift Deposits (B3) Present? Wesen (F8) Presence of Reduced Iron (C4) Sturtation Visible on Aeria Imagery (B7) Gauge or Well Data (D9) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) ield Observations: urface Water Present? Yes No Depth (inches): Urate Water Deposits (Pse) Depth (inches): Urate Water Present? Yes No Depth (inches): Urate Water Deposits (Pse) Depth (inches): Utestand Hydrology Present? Yes No Depth (inches): Urate Water Deposits (Pse) Wetland Hydrology Present? Yes utration (Psesnt? Yes Depth (inches): Unificators of hydrophytic vegetive wetland hydrology Present? Yes with the Matrix (F2) Director (F7) Wetland Hydrology Indicators of hydrophytic vegetive wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology Present? Yes wetland hydrology	(A1)	rairie Redox (A16)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Pepleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Wetland Hydrology must be punless disturbed or problems restrictive Layer (if observed): Type: Deplt (inches): Hydric Soil Present? Yes Maturation Present? As a Surface (A11) Present? Present	N - V - N - N - N - N - N - N - N - N -	
Stratified Layers (A5)	stic (A3)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sord Mucky Mineral (S1) Sord Mucky Peat or Peat (S3) Depleted Dark Surface (F7) Redox Depressions (F8) Surface Sisturbed or problems Depth (Inches): Depth (Inches): Depth (Inches): Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A2) Surface Water (A3) Surface Water (A1) Surface Water (A1) Surface Water (A2) Surface Water (A2) Surface Water (A3) Surface Water		xplain in Remarks)
Thick Dark Surface (A12) Depleted Dark Surface (F7)		
Sandy Mucky Mineral (S1)		of hydrophytic vegetation and
Secundary Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Into Deposits (B5)		
Restrictive Layer (if observed): Type:		
Popth (inches):		
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Algal Crust (B8) Algal Mat or Crust (B4) Algal Mat or Crust (B10) Algal Mat or Crust (B10) Algal Mat or Crust (B10) Algal Mat or Crust (B10) Algal Mat or Crust (B10) Algal Mat or Crust (B10) Algal Mat or Crust (B10) Algal Mat or Crust (B10) Algal Mat or Crust		
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Iron Deposits (B5) Sparsely Vegetated Concave Surface (B8) Surface Water (B8) Presence of Reduced (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Vetal Order (Explain in Remarks) Sedimant Deposits (B3) Algal Mat or Crust (B4) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Ves No Depth (inches): Sedimant Deposits (B5) John Muck Surface (C7) Sedimant Deposits (B5) John Muck Surface (C7	:hes):	Present? Yes No
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table (Passent? Ves. No. Very Depth (inches): Vater Table (Passes (B9) Secondary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water Stained Leaves (B9) Surface (B9) Surface Soil Cracks (B6) Drianage Patterns (B10) Dry-Season Water Table of C1 Crayfish Burrows (C8) Saturation Visible on Aerial Present? Ves. No. Very Depth (inches): Saturation Present? Ves. No. Very Depth (inches): Wetland Hydrology Present? Yes.	GY	
Surface Water (A1)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table (A2) Surface Soil Cracks (B6) Aquatic Fauna (B13) Dry-Season Water Table (D7) Crayfish Burrows (C8) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Present (C4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sield Observations: Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes Water Davis Rater Present? Yes Water Davis Results Water Aquatic Planta (B13) Drainage Patterns (B10) Dry-Season Water Table Preseason Water Table Preseason Water Table Surface Water Present? Yes No Depth (inches): Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Water Table Present? Yes Depth (inches): Drift Present? Yes Water Table Present? Yes Depth (inches): Drift Present Present? Yes Water Table Present? Yes Water Table Present? Yes Davis Table Present? Yes Davis Table Present? Yes Davis Table Present? Yes Davis Table Present? Yes Davis Table Present? Yes Davis Table Pr		y Indicators (minimum of two require
Saturation (A3)	think hard-hamber	ce Soil Cracks (B6)
Water Marks (B1)		age Patterns (B10)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Depth (inches): Vestand Present? Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Recent Iron Reduction in Tilled Soils (C6) Facheutral Test (D5) Facheutral Test (D5) Gauge or Well Data (D9) Other (Explain in Remarks) Facheutral Test (D5) Depth (inches): Vestand Hydrology Present? Yes No Depth (inches): Vestand Hydrology Present? Yes Depth (inches): Vestand Hydrology Present? Yes Depth (inches): Vestand Hydrology Present? Yes Ves Ves Ves No Depth (inches): Ves Ves Ves No Depth (inches): Ves Ves Ves Ves Ves Ves Ves Ve	in (A3)	eason Water Table (C2)
	arks (B1)	ish Burrows (C8)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Gield Observations: Surface Water Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Depth (inches): Sturration Present? Yes No Sturration Present? Yes Sturration Present? Yes No Sturration Present? Yes	t Deposits (B2)	ation Visible on Aerial Imagery (C9)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Ves No Depth (inches): Vater Table Present? Yes No Depth (inches): Ves No Depth (inches): Ves No Depth (inches): Ves No Depth (inches): Ves No Depth (inches): Ves Ves No Depth (inches): Ves Ves No Depth (inches): Ves Ves No Depth (inches): Ves Ves Ves No Depth (inches): Ves	osits (B3)	ed or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Gield Observations: Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Ves No Depth (inches): Ves No Depth (inches): Ves No Depth (inches): Ves No Depth (inches): Ves No Depth (inches): Ves No Ves No Ves No Ves Ve	t or Crust (B4)	norphic Position (D2)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Inches):	osits (B5)	Neutral Test (D5)
icield Observations: Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes	on Visible on Aerial Imag	
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes		
Vater Table Present? Yes No Depth (inches): Baturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes		
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes	r Present? Yes _	
	Dropont2 V	And the second
	riesent! Yes_	Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: rassy swale	esent? Yes _ illary fringe)	
Remarks:	esent? Yes _ illary fringe) corded Data (stream gau	
1511001100	esent? Yes _ illary fringe) corded Data (stream gau	

Project/Site: Byron Solar			City/County: Dodge	Sampling Date: 2020-10-3			
Applicant/Owner: EDF Renewable	es		6.000	Sampling Point: NW-26			
Investigator(s): David Kuhlmann			Section, Township, Range: Section 2, T106N, R16W				
Landform (hillslope, terrace, etc.): U				(concave, convex, none)			
Slope (%); 0-2 Lat. 44.02	21495		Long: -92.698503		Datum: NAD 83		
Soil Map Unit Name: Tripoli clay l		ercent slopes	(M515A)	NWI classifie	cation: None		
Are climatic / hydrologic conditions on	the site typical	for this time of ye	ar? Yes No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, c					present? Yes No		
Are Vegetation, Soil,				eeded, explain any answe			
SUMMARY OF FINDINGS -							
Hydrophytic Vegetation Present?	Yes	No			STOP ACCOUNTS		
Hydric Soil Present?	Yes_	No	Is the Sample				
Wetland Hydrology Present?	Yes	No	within a Wetla	nd? Yes	No		
Remarks:							
Very minimal swale, evidence of overland flow	of undergro	und tile with o	outlet into adjacer	t ditch. Any aerial si	gnatures likely a product		
VEGETATION - Use scientific	names of pl	ants.					
20 ft »		Absolute	1. Call of M. 1990 (1990) 1. Call of C	Dominance Test work	ksheet;		
Tree Stratum (Plot size: 30 ft r		% Cover	Species? Status	Number of Dominant S			
1				That Are OBL, FACW,	or FAC: 0 (A)		
2				Total Number of Domin			
3				Species Across All Stra	ata: <u>0</u> (B)		
4		_=	=	Percent of Dominant S			
3/-			= Total Cover	That Are OBL, FACW,	or FAC: 0 (A/B)		
Sapling/Shrub Stratum (Plot size	15 ft r	_)	- Total Cover	Prevalence Index wo	rksheet:		
1.					Multiply by:		
2					x 1 = 0		
3				FACW species 0	x 2 = 0		
4,					x 3 = 0		
5				FACU species 0			
E ft v			= Total Cover		x 5 = 0		
Herb Stratum (Plot size: 5 ft r	-)·			Column Totals: 0	(A) <u>0</u> (B)		
1				Prevalence Index	v = R/A = 0.0		
2.				Hydrophytic Vegetati	130,447,130		
3					Hydrophytic Vegetation		
4				2 - Dominance Te			
5			FAC	3 - Prevalence Ind			
7.			<u> </u>		Adaptations [†] (Provide supporting		
8.				data in Remark	s or on a separate sheet)		
9,				Problematic Hydro	phytic Vegetation¹ (Explain)		
				Indicators of hudgie no	il and wetland hydrology must		
10. Woody Vine Stratum (Plot size: 30		, =	= Total Cover	be present, unless dist			
10	O ft r	, =		be present, unless dist			
10	Oftr	>		be present, unless dist Hydrophytic Vegetation	turbed or problematic.		
10	Oftr)		be present, unless dist Hydrophytic Vegetation			

Depth Matrix Redox Features	Texture Remarks
0 - 40 10YR 2/1 100 /	
	-
The December December 2015	
The Recommendation of the Particle of the Part	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3) Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	
✓ Thick Dark Surface (A12) — Redox Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)	unless disturbed or problematic
Restrictive Layer (if observed):	
Type:	STATUTE OF THE STATE OF
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
VDBOLOCY	
YDROLOGY	
Netland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots	
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6	그리아 그 이 프로그램이 없었다. [일시] [일시] [일시] [일시] [일시] [일시] [일시]
Iron Deposits (B5) Thin Muck Surface (C7)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
On the state of th	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Field Observations:	
Field Observations: Surface Water Present? Yes No Depth (inches):	
Field Observations: Surface Water Present? Yes No Depth (inches): Nater Table Present? Yes No Depth (inches):	
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetlatingly fringe)	land Hydrology Present? Yes No
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetla (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), Filled corn field, very minimal swale	
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	

Project/Site: Byron Solar			City/Cour	nty: Dodge		Sampling Date: _	2020-11-26	
Applicant/Owner: EDF Renewables	3		State: Minnesota Sampling Point: NW-27					
Investigator(s): David Kuhlmann			Section, Township, Range: Section 13, T106N, R16W					
Landform (hillslope, terrace, etc.): Upl					(concave, convex, none):			
Slope (%): 2-5 Lat: 43.985	59164		Long: -9	2.694136		Datum: NAD 83	3	
Soil Map Unit Name: Clyde-Floyd o	complex, 1 to	o 4 percent sl	opes (N	/1518B)	NWI classific	ation: None		
Are climatic / hydrologic conditions on t	he site typical f	or this time of ye	ar? Yes	✓ No	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or					'Normal Circumstances" p		No	
Are Vegetation, Soil, or					eeded, explain any answe			
SUMMARY OF FINDINGS - A							atures, etc.	
Hydrophytic Vegetation Present?	Yes	No						
Hydric Soil Present?	Yes	No	Is	the Sampled				
Wetland Hydrology Present?	Yes	_ No _ /	wi	thin a Wetlar	nd? Yes	No		
Remarks:								
Grassy swale								
VEGETATION – Use scientific	names of pla	ants.						
30 ft r		Absolute		nt Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30 ft r		% Cover	Species	Status	Number of Dominant S		ZAV	
1			_		That Are OBL, FACW,	DI FAC.	(A)	
3					Total Number of Domin Species Across All Stra		(B)	
4.			-		Species Across Air Stra		(6)	
5.					Percent of Dominant Sp That Are OBL, FACW,		(A/B)	
1	E f+		= Total C	Cover		A. A	- X 2-2V	
Sapling/Shrub Stratum (Plot size 1					Prevalence Index wor		a fear	
1			-		Total % Cover of:		y by:	
2			-		OBL species 0		_	
3			-		FAC species 50	x 3 = 150	-	
4,					FACU species 50	x 4 = 200		
J			= Total C	over	UPL species 0	x 5 = 0		
Herb Stratum (Plot size: 5 ft r					Column Totals: 100	(A) 350	(B)	
1. Ambrosia trifida		50		FAC			10,0	
2, Bromus inermis		50		FACU	Prevalence Index	30.00	_	
3			_		Hydrophytic Vegetation			
4			-		1 - Rapid Test for h		ation	
5			·		2 - Dominance Tes			
6			-		3 - Prevalence Inde	TOTAL MONEY	da amanadan	
7,					4 - Morphological A	adaptations (Provi s or on a separate		
8			_	-	Problematic Hydro			
9,			_					
10		100%	= Total C	Cover	¹ Indicators of hydric soi be present, unless distu			
Woody Vine Stratum (Plot size: 30					L			
1			-	-	Hydrophytic Vegetation			
2			= Total C	over		s No	<u> </u>	
Remarks: (Include photo numbers he	re or on a sena		- Total C	0,761				

	ix		dox Feature			21	67.30
(inches) Color (mois		Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0 - 24 10YR 2/2	95	10YR 3/4	5	<u>C</u>	<u>M</u>	Silt Loam	
-							
		-					
		-			_		
		-	_				
Type: C=Concentration, D=	Depletion, RI	M=Reduced Matrix,	MS=Maske	d Sand G	ains.	² Location: PL	=Pore Lining, M=Matrix.
lydric Soil Indicators:						Indicators for	Problematic Hydric Soils ³ :
_ Histosol (A1)		Sand	y Gleyed M	latrix (S4)		Coast Prair	ie Redox (A16)
Histic Epipedon (A2)			y Redox (S			Dark Surfa	
_ Black Histic (A3)			oed Matrix (the same of the sa			nese Masses (F12)
Hydrogen Sulfide (A4)			ny Mucky M				ow Dark Surface (TF12)
Stratified Layers (A5)			y Gleyed N			Other (Exp	lain in Remarks)
_ 2 cm Muck (A10)	door (A11)		eted Matrix ox Dark Suri				
Depleted Below Dark St. Thick Dark Surface (A12			eted Dark S		Y	3Indicators of h	ydrophytic vegetation and
Sandy Mucky Mineral (S			x Depressi	The state of the s	,		drology must be present,
_ 5 cm Mucky Peat or Pea			A Depresson	0110 (1 0)			urbed or problematic
Restrictive Layer (if observ						1	
Type:						100000000000000000000000000000000000000	
						Hydric Soil Pre	sent? Yes No
Depth (inches):							
Depth (inches):Remarks;		_				1	
		_				1	
Remarks:							
Remarks:							
Remarks:	ors:						
Remarks: YDROLOGY Vetland Hydrology Indicat		uired; check all that	apply)			Secondary In	idicators (minimum of two require
Remarks: YDROLOGY Vetland Hydrology Indicat			apply) Stained Lea	ves (B9)			ndicators (minimum of two require Soil Cracks (B6)
Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum		Water-S	A Section of the second	4.4		Surface	
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Water-S Aquatic	Stained Lea	3)		Surface Drainage	Soil Cracks (B6)
YDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-S Aquatic True Aq	Stained Lea Fauna (B1)	3) s (B14)		Surface Drainage Dry-Sea Crayfish	Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-S Aquatic True Aq Hydroge	Stained Lea Fauna (B1) juatic Plants	3) s (B14) Odor (C1)	ring Roots	Surface Drainage Dry-Sea Crayfish	Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Water-S Aquatic True Aq Hydroge Oxidize	Stained Lea Fauna (B1) Juatic Plants en Sulfide C	3) s (B14) Odor (C1) eres on Liv		Surface Drainage Dry-Sea Crayfish (C3) Saturatio	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Water-S Aquatic True Aq Hydroge Oxidizer	Stained Lea Fauna (B1) juatic Plants en Sulfide C d Rhizosph	3) s (B14) Odor (C1) eres on Liv ed Iron (C	4)	Surface Drainage Dry-Sea Crayfish (C3) Saturatio	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one is req	Water-S Aquatic True Aq Hydroge Oxidize Present Recent Thin Mu	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7)	4)	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae	of one is req	Water-S Aquatic True Aq Hydroge Oxidize Present Recent Thin Mu	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Data	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Orbic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor	of one is req	Water-S Aquatic True Aq Hydroge Oxidize Present Recent Thin Mu	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Orbic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor	of one is req	Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu B7) Gauge ((B8) Other (B	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc Iron Reduc uck Surface or Well Data Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Orbic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations:	of one is req	Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu B7) Gauge ((B8) Other (B	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Data	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Orbic Position (D2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor	of one is req rial Imagery (cave Surface	Water-S Aquatic True Aq Hydroge Oxidizer Present Recent Thin Mu B7) Gauge (B8) Other (B	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduc Iron Reduc Iron Reduc uck Surface or Well Data Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Orbic Position (D2)
Proposits (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Water Table Present? Saturation Present?	of one is req rial Imagery (cave Surface Yes	Water-S Aquatic True Aq Hydroge Oxidize Present Recent Thin Mu B7) Gauge ((B8) Other (B	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct lock Surface or Well Data Explain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4) d Soils (C	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Water Table Present? Includes capillary fringe)	rial Imagery (cave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidize Present Recent Thin Mu B7) Gauge (B8) Other (B No Depth No Depth No Depth	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Data Explain in R (inches); (inches); (inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Surface Drainage Dry-Sea Crayfish s (C3) Saturatio Stunted 6) Geomor FAC-Ne	Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Nater Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	rial Imagery (cave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidize Present Recent Thin Mu B7) Gauge (B8) Other (B No Depth No Depth No Depth	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Data Explain in R (inches); (inches); (inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Surface Drainage Dry-Sea Crayfish s (C3) Saturatio Stunted 6) Geomor FAC-Ne	e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Proposits (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Sparsely Vegetated Cor Sparsely Vegetated Cor Sparsely Vegetated Cor Seturation Present? Vater Table Present? Seturation Present? Seturation Present? Seturation Present? Sparsely Vegetated Cor	rial Imagery (cave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidize Present Recent Thin Mu B7) Gauge (B8) Other (B No Depth No Depth No Depth	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Data Explain in R (inches); (inches); (inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Surface Drainage Dry-Sea Crayfish s (C3) Saturatio Stunted 6) Geomor FAC-Ne	Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Proposits (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corfield Observations: Surface Water Present? Vater Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	rial Imagery (cave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidize Present Recent Thin Mu B7) Gauge (B8) Other (B No Depth No Depth No Depth	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Data Explain in R (inches); (inches); (inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Surface Drainage Dry-Sea Crayfish s (C3) Saturatio Stunted 6) Geomor FAC-Ne	Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020-10-28
Applicant/Owner: EDF Renewables					Sampling Point: WB-01 Up
Investigator(s): David Kuhlmann			Section, Township, Ra	nge: Section 13, T10	6N, R16W
Landform (hillslope, terrace, etc.): Hills				(concave, convex, none):	
Slope (%): 2-5 Lat. 43.981					
Soil Map Unit Name: Winneshiek si				NWI classific	
Are climatic / hydrologic conditions on the					
Are Vegetation, Soil, or					present? Yes No
Are Vegetation, Soil, or					
SUMMARY OF FINDINGS - A				eeded, explain any answe	
	Yes			a sumerice active says	(11 ft 21 200 20 20 20 20 20 20 20 20 20 20 20 20
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes V		Is the Sample	d Area	
Wetland Hydrology Present?		No V	within a Wetla	nd? Yes	No
Remarks			1 24 4 4 4		
Harvested soybean fiel	d				
VEGETATION – Use scientific	names of pla	ants			
		Absolute	Dominant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30 ft r			Species? Status	Number of Dominant S That Are OBL, FACW,	pecies
2					
3				Total Number of Domin Species Across All Stra	
4					
5				Percent of Dominant Sp That Are OBL, FACW,	
1	5 ft r		= Total Cover		
Sapling/Shrub Stratum (Plot size 15				Prevalence Index wor	
1				Total % Cover of: OBL species 0	$\frac{\text{Multiply by:}}{\text{x 1} = 0}$
2					x 2 = 0
3				FAC species 0	x 3 = 0
4 ,				FACU species 0	x 4 = 0
5			= Total Cover	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r)	-	- Total Cover	0	(A) 0 (B)
1				14	
2,				Prevalence Index	
3				Hydrophytic Vegetation	
4					Hydrophytic Vegetation
5				2 - Dominance Tes	
6				3 - Prevalence Inde	
7.				4 - Morphological A	Adaptations ¹ (Provide supporting sor on a separate sheet)
8					phytic Vegetation (Explain)
9,					bulling to Solvanou (exboun)
10				¹ Indicators of hydric soi	I and wetland hydrology must
Woody Vine Stratum (Plot size: 30	ft r		= Total Cover	be present, unless distr	urbed or problematic.
Transfer and Stratum It Int SIZE.				Hydranhytia	
1.				Hydrophytic	
1				Vegetation	
1			= Total Cover		s No

SOIL Sampling Point: WB-01 Up

41	Matrix			ox Featur		1 . 2	43,000	6/201
(inches)	Color (moist)	%_	Color (moist)	%	Type ¹	_Loc²	Texture	Remarks
0-8	10YR 2/2	98	10YR 3/4	_ 2	<u> C</u>	M	Silty clay loam	
8 24	10YR 4/2	70	10YR 5/8	30	С	M	Clay	
-								
-								
_	-			-				
	-		4	7				
	Company or 2 c Za						2,	s Carried to a location
	oncentration, D=De Indicators:	epletion, Ri	M=Reduced Matrix, M	/IS=Maske	ed Sand G	ains.		.=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol			Condu	Clayed M	latrix (S4)			rie Redox (A16)
	oipedon (A2)			Redox (S			Coast Frain	4-7 3
	istic (A3)			ed Matrix (anese Masses (F12)
_ Hydroge	en Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very Shallo	ow Dark Surface (TF12)
	d Layers (A5)				latrix (F2)		Other (Exp	lain in Remarks)
	uck (A10)		The second secon	ed Matrix				
	d Below Dark Surfa ark Surface (A12)	ice (A11)		Dark Sur	race (F6) turface (F7	Y	³ Indicators of h	ydrophytic vegetation and
	Mucky Mineral (S1)			Depressi	The state of the s	,		drology must be present,
	icky Peat or Peat (S3)		2-08-5-00	- V - V			urbed or problematic
estrictive	Layer (if observed	1):						
Туре:								sent? Yes No
Daniel (in							Hydric Soil Pres	sent? Yes No
	ches)::							
emarks:								
Remarks:		s:						
emarks: YDROLO Vetland Hy	GY drology Indicators		uired; check all that a	apply)				ndicators (minimum of two require
YDROLO Vetland Hy	GY drology Indicators			apply)	ves (B9)		Secondary In	
POROLO Vetland Hy rimary India Surface	GY drology Indicators cators (minimum of			ained Lea	4.4		Secondary Ir	ndicators (minimum of two require
YDROLO Vetland Hy rimary India	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Water-St	ained Lea auna (B1	3)		Secondary Ir Surface Drainage	ndicators (minimum of two require Soil Cracks (B6)
POROLO Vetland Hy rimary India Surface High Wa Saturati Water M	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1)		Water-St. Aquatic F True Aqu Hydroger	ained Lea auna (B1 atic Plant Sulfide (3) s (B14) Odor (C1)		Secondary Ir Surface Drainage Dry-Sea Crayfish	ndicators (minimum of two require Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLO Vetland Hy rimary India Surface High Wa Saturati Water M Sedimei	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		Water-St Aquatic F True Aqu Hydroger Oxidized	ained Lea auna (B1) atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Liv		Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
YDROLO Vetland Hy rimary India Surface High Wa Saturati Water M Sedimei Drift De	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3)		Water-St. Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea auna (B1) atic Plants Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimei Drift Dei	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4)		Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea Fauna (B1 Patic Plants Sulfide C Rhizosph of Reduction Reduction	3) s (B14) Odor (C1) eres on Lived Iron (C	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one is req	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea Fauna (B1 Patic Plants Sulfide C Rhizosph of Reduction Reduction k Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
POROLO Vetland Hy rimary India Surface High Wa Saturati Water M Sedimer Drift Del Algal Ma Iron Der	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria	one is req	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea auna (B1) atic Plants Sulfide (Rhizosph of Reduction Reduction k Surface	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift De Algal Ma Iron Dep Inundati Sparsel	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca	one is req	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea auna (B1) atic Plants Sulfide (Rhizosph of Reduction Reduction k Surface	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two required Soil Cracks (B6) as Patterns (B10) as which was been solved by the son Water Table (C2) and Wisible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2)
YDROLO Vetland Hy rimary India Surface High Wa Saturati Water M Sedimed Drift De Algal Ma Iron Dep Inundati Sparsel	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca	I Imagery (ve Surface	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex	ained Lea fauna (B1) atic Plant: Sulfide (Rhizosph of Reduction Reduction k Surface Well Date oplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two required Soil Cracks (B6) as Patterns (B10) as which was been solved by the son Water Table (C2) and Wisible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsel ield Obser	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present?	I Imagery (ve Surface	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex	ained Lea fauna (B1) atic Plant: Sulfide (Rhizosph of Reduction Reduction k Surface Well Date oplain in R	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Del Algal Ma Iron Der Inundati Sparsel Field Obser Surface Water Table	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present?	I Imagery (ve Surface Yes	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex	ained Lea auna (B1) atic Plants Sulfide C Rhizosph of Reduct on Reduct on Reduct well Data cplain in R	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two required Soil Cracks (B6) as Patterns (B10) as which was been solved by the solved by th
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimel Algal Ma Iron Dep Inundati Sparsel Selid Obser Surface Water Table Saturation Peincludes ca	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? present?	I Imagery (ve Surface Yes Yes	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex No Pepth (in No Pepth (in	ained Lea fauna (B1) fatic Plants fauna (B1) fatic Plants fauna (B1) fauna (B	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted 6) Geomor FAC-Ne	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
YDROLO Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Del Inundati Sparsel Field Obser Surface Water Table Saturation P includes ca	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? present?	I Imagery (ve Surface Yes Yes	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex	ained Lea fauna (B1) fatic Plants fauna (B1) fatic Plants fauna (B1) fauna (B	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted 6) Geomor FAC-Ne	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsela Sield Obser Surface Water Table Saturation Pancludes car	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? present?	I Imagery (ve Surface Yes Yes	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex No Pepth (in No Pepth (in	ained Lea fauna (B1) fatic Plants fauna (B1) fatic Plants fauna (B1) fauna (B	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted 6) Geomor FAC-Ne	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
YDROLO Vetland Hy Vetland Hy Vetland Hy Vetland Hy Vetland Hy Vetland Hy Surface High Wa Saturati Water M Sedimel Algal Ma Iron Dep Inundati Sparsel ield Obser Vetland Obser	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? present?	I Imagery (ve Surface Yes Yes	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex No Pepth (in No Pepth (in	ained Lea fauna (B1) fatic Plants fauna (B1) fatic Plants fauna (B1) fauna (B	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted 6) Geomor FAC-Ne	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)

US Army Corps of Engineers Midwest Region – Version 2.0

Project/Site: Byron Solar				City/Co	ounty: Dodge		Sar	npling Date	2020-1	10-28
Applicant/Owner: EDF Renewables	3					State: Mir	nnesota San	npling Poin	t WB-01	Wet
Investigator(s): David Kuhlmann				Sectio	n, Township, Ra	nge: Section 1	3, T106N,	R16W		
Landform (hillslope, terrace, etc.): De						(concave, convex				
Slope (%): 2-5 Lat: 43.981	2622			Long:	-92.6884126	3	Dat	um: NAD	83	
Soil Map Unit Name: Winneshiek s	ilt Ioam,	2 to (6 percent slo	pes	(M526B)	NWI	classification	. None		
Are climatic / hydrologic conditions on t	he site ty	oical fo	r this time of yea	ar? Ye	es / No	(If no, exp	lain in Rema	rks.)		
Are Vegetation, Soil, or	Hydrolog	V	significantly	disturb	ed? Are	Normal Circumst	ances" prese	nt? Yes	No	
Are Vegetation, Soil, or										
SUMMARY OF FINDINGS - A										etc
	Yes_			Sam	pinig point i	ocations, trai	iscots, iii	portant	icatures	, c.
Hydrophytic Vegetation Present? Hydric Soil Present?			No		Is the Sampled	Area				
Wetland Hydrology Present?			No	318	within a Wetlan		es	No		
Remarks				-	10,000,000					
Harvested soybean fie	ld elia	ht 🗛	vidence o	of dr	owned ou	+				
Tiai vested soybean fie	iu siig	III E	viderice d	n ui	ownea oa					
VEGETATION - Use scientific	names	of pla	nts.							
			Absolute	Dom	inant Indicator	Dominance Te	st workshee	et:		
Tree Stratum (Plot size: 30 ft r)		% Cover	Spec	ies? Status	Number of Don	ninant Specie			
1				_		That Are OBL,	FACW, or FA	VC: 0		(A)
2				_		Total Number of	of Dominant			
3				-		Species Across	All Strata:	0		(B)
4				_		Percent of Dom				
5				- Tate	I Cavan	That Are OBL,	FACW, or FA	AC: 0		(A/B)
Sapling/Shrub Stratum (Plot size 1	5 ft r) —	= 1018	al Cover	Prevalence Inc	lex workshe	et:		
10						Total % Co	over of:			
2				_		OBL species		x 1 = 0		
3				_		FACW species	0	x 2 = 0		3
4,				_		FAC species	0			-
5				_		FACU species				-3
Herb Stratum (Plot size: 5 ft r	1		_	= Tota	al Cover	UPL species	0			751
1.						Column Totals:		(A) <u>0</u>		(B)
2,						Prevalenc	ce Index = B	A = 0.0		
3						Hydrophytic V	egetation In	dicators:		
4						1 - Rapid T	est for Hydro	ophytic Veg	jetation	
5.						2 - Domina	nce Test is >	-50%		
6						3 - Prevale	nce Index is	≤3.0 ¹		
7.						4 - Morpho				orting
8				_			Remarks or o			v i
9,			_	_		Problemati	c nyarophyti	c vegetatio	ii (Explair	1).
10				_		¹ Indicators of h	vdric soil and	wetland by	vdrology m	niet
Woody Vine Stratum (Plot size: 30	ft r)		77-	al Cover	be present, unli	ess disturbed	or problem	natic.	luşt
						Hydrophytic				
1.				-		LOCAL PROPERTY CONTRACTOR OF THE				
				-	al Cover	Vegetation Present?	Yes_	_ No	226	

SOIL Sampling Point: WB-01 Wet

	Matrix	.0/	Red	ox Featur		1 - 2	Talable	Demodes
(inches) 0 - 8	Color (moist) 10YR 2/2	98	Color (moist) 10YR 3/4	2	Type ¹	Loc² M	Texture Silty clay loam	Remarks
			1 1	100		-		
8-24	10YR 4/2	70	10YR 5/8	30	<u>C</u>	M	Clay	
						_		
			1					
Type: C=Co	ncentration D=De	nletion RI	M=Reduced Matrix, N	S=Masks	d Sand Gr	enice	21 ocation: Pl	_=Pore Lining, M=Matrix.
lydric Soil I		pronon, i ii	THE COURSE MANNEY IN	io maone	u cuito ci	GIIIO.		Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed M	atrix (S4)		Coast Prair	rie Redox (A16)
	ipedon (A2)			Redox (S			Dark Surfa	
_ Black His	stic (A3)		Strippe	d Matrix (S6)		Iron-Manga	anese Masses (F12)
Hydroger	n Sulfide (A4)				ineral (F1)		Very Shallo	ow Dark Surface (TF12)
	Layers (A5)				latrix (F2)		Other (Exp	lain in Remarks)
2 cm Mu				ed Matrix				
	Below Dark Surface	ce (A11)		Dark Sur			Standback	Confederate and a second all the contract of
	rk Surface (A12) ucky Mineral (S1)			ed Dark S Depressi	urface (F7)		hydrophytic vegetation and drology must be present,
	cky Peat or Peat (S	23/	Redox	Depressi	ons (ro)			urbed or problematic
	ayer (if observed)			_			Unless tist	urbed of problematic.
Type:	ayor (ii obcorrou)							
	hant.						Hydric Soil Pres	sent? Yes No
Denth (inc								
Depth (inc	nes)							
Remarks:								
Remarks:	GΥ							
Remarks: YDROLOG	GY Irology Indicators		uired: check all that a	pply)			Secondary In	ndicators (minimum of two require
YDROLOG Vetland Hyd	GY frology Indicators ators (minimum of		uired; check all that a		ves (B9)			
YDROLOG Vetland Hyd Primary Indic Surface N	GY frology Indicators ators (minimum of Water (A1)		Water-Sta	ained Lea			Surface	Soil Cracks (B6)
YDROLOG Vetland Hyd Primary Indic Surface V High Wa	GY frology Indicators ators (minimum of Water (A1) ter Table (A2)		Water-Sta	ained Lea auna (B1	3)		Surface Drainage	Soil Cracks (B6) e Patterns (B10)
YDROLOG Vetland Hyd Primary Indic Surface V High Wai Saturatio	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3)		Water-Sta Aquatic F True Aqu	ained Lea auna (B1 atic Plant	3) s (B14)		Surface Drainage Dry-Sea	Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
YDROLOG Vetland Hyd Primary Indic Surface V High Wal Saturatio Water Mi	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1)		Water-Sta Aquatic F True Aqu Hydroger	ained Lea auna (B1 atic Plant Sulfide (3) s (B14) odor (C1)	vina Roots	Surface Drainage Dry-Sea Crayfish	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLOG Vetland Hyd Primary Indic Surface V High War Saturatio Water Mar Sedimen	GY Irology Indicators ators (minimum of water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)		Water-Sta Aquatic F True Aqu Hydroger Oxidized	ained Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Liv	1000	Surface Drainage Dry-Sea Crayfish s (C3) Saturatio	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
YDROLOG Vetland Hyd Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3)		Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc	3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Surface Drainage Dry-Sea Crayfish (C3) V Saturatio	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
YDROLOG Vetland Hyd Primary Indic Surface V High Wat Saturatio Water Mat	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduction Reduction	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille	4)	Surface Drainage Dry-Sea Crayfish (C3) V Saturatio V Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLOG Vetland Hyd Primary Indic Surface V High War Saturatio Water Mar Sedimen Drift Dep Algal Mar	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	one is req	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc	ained Lea fauna (B1 atic Plant: a Sulfide C Rhizosph of Reduc on Reduc k Surface	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7)	4)	Surface Drainage Dry-Sea Crayfish (C3) V Saturatio V Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
YDROLOG Vetland Hyd Primary Indic Surface V High War Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	one is req	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc	ained Lea auna (B1) atic Plant: Sulfide (Rhizosph of Reduc on Reduc k Surface Well Dat	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish (C3) V Saturatio V Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLOG Vetland Hyde Surface V High War Saturatio Water Mi Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely	GY Irology Indicators ators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav	one is req	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc	ained Lea auna (B1) atic Plant: Sulfide (Rhizosph of Reduc on Reduc k Surface Well Dat	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish (C3) V Saturatio V Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLOG Vetland Hyd Primary Indic Surface N High Wat Saturatio Water Mat	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav vations:	one is req Imagery (re Surface	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge or	ained Lea auna (B1, atic Plant: Sulfide (Rhizosph of Reduc on Reduc k Surface Well Date	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish (C3) V Saturatio V Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLOG Vetland Hyd Primary Indic Surface V High Water Mi Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Gurface Water	GY Irology Indicators ators (minimum of all Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concaverations:	one is req Imagery (re Surface	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge or (B8) Other (Ex	ained Lea fauna (B1 atic Plants Sulfide C Rhizosph of Reduct on Reduct k Surface Well Data cplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea Crayfish (C3) V Saturatio V Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLOG Vetland Hyd Primary Indic Surface V High War Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observ Surface Water Vater Table	GY Irology Indicators ators (minimum of a content of the content	Imagery (ve Surface	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge or (B8) Other (Ex	ained Lea auna (B1) atic Plants a Sulfide C Rhizosph of Reduct on Reduct k Surface Well Data cplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Surface Drainage Dry-Sea Crayfish (C3) V Saturatio V Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
YDROLOG Netland Hyd Primary Indic Surface N High Wat Saturatio Water Mater Sediment Drift Dep Algal Mater Iron Depo Inundatio Sparsely Field Observ Surface Water Nater Table Includes cap	frology Indicators ators (minimum of a Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav vations: er Present? Present?	Imagery (ve Surface Yes Yes	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge or (B8) Other (Ex	ained Lea auna (B1) atic Plants a Sulfide C Rhizosph of Reduct on Reduct on Reduct k Surface Well Data (plain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor FAC-Net	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
YDROLOG Netland Hyd Primary Indic Surface N High Wat Saturatio Water Mater Sediment Drift Dep Algal Mater Iron Depo Inundatio Sparsely Field Observ Surface Water Nater Table Includes cap	frology Indicators ators (minimum of a Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav vations: er Present? Present?	Imagery (ve Surface Yes Yes	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge or (B8) Other (Ex No Depth (in No Depth (in	ained Lea auna (B1) atic Plants a Sulfide C Rhizosph of Reduct on Reduct on Reduct k Surface Well Data (plain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainage Dry-Sea Crayfish Stunted Stunted Geomor FAC-Net	e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)

Project/Site: Byron Solar				City/Co	ounty	Dodge		Sampling	Date: 202	0-10-29
Applicant/Owner: EDF Renewable	s						State: Minnesota	Sampling	Point WB-	-02 Up
Investigator(s): David Kuhlmann				Section	n, To	wnship, Ra	nge: Section 13, T10	6N, R16W	1	
Landform (hillslope, terrace, etc.): Up							(concave, convex, none)	_		
Slope (%): 5 Lat: 43.98	8359			Long:	-92	.691966		Datum: N	AD 83	
Soil Map Unit Name: Clyde-Floyd	complex,	1 to 4 p	ercent sl	opes	(M5	18B)	NWI classific	cation: Nor	ne	
Are climatic / hydrologic conditions on	the site typi	cal for this	time of ye	ar? Ye	es _	No_	(If no, explain in R	(emarks.)		
Are Vegetation, Soil, or	Hydrology	s	ignificantly	disturb	ed?	Are *	"Normal Circumstances"	present? Y	es	No
Are Vegetation, Soil, o	Hydrology	n	aturally pro	blema	tic?	(If ne	eeded, explain any answe	ers in Rema	rks.)	
SUMMARY OF FINDINGS - A	Attach sit	e map	showing	sam	plin	a point l	ocations, transects	s. importa	ant featur	res. etc.
Hydrophytic Vegetation Present?	to the party of	4 - 4 - 4 - 4 - 5	0		2000	J. 1	a sumanay a cure s no	3 77 10 27 77	ares to see energy	228.0111
Hydric Soil Present?		VN			Is th	e Sampled	I Area			
Wetland Hydrology Present?		N		-1,6	with	in a Wetlar	nd? Yes	No		
Remarks										
Grassy swale										
VEGETATION – Use scientific	names of	f plants.								
		,	Absolute	Dom	inant	Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30 ft r			% Cover	Spec	ies?	Status	Number of Dominant S That Are OBL, FACW,			(A)
2							Total Number of Domin	ant		
3			_	_	_	_	Species Across All Stra	electric e	1	(B)
4			_	_	_	-	Percent of Dominant S	pecies		
5			_	-	100		That Are OBL, FACW,		100	(A/B)
Sapling/Shrub Stratum (Plot size 1	5 ft r	3	_	= Tota	al Cov	/er	Prevalence Index wor	ksheet:		
1							Total % Cover of:		Multiply by:	
2.							OBL species 0	x1	= 0	
3.						-	FACW species 0		= 0	_
4,					_		FAC species 60		= 180	_
5				_	_		FACU species 5		= 20	
Herb Stratum (Plot size: 5 ft r				= Tota	al Cov	/er	UPL species 0		= 0	-
1 Setaria pumila			50	v	/	FAC	Column Totals: 65	(A)	200	(B)
2 Ambrosia trifida			10		_	FAC	Prevalence Index	= B/A = _	3.1	
3. Abutilon theophrasti			5			FACU	Hydrophytic Vegetati	on Indicato	rs:	
4.							1 - Rapid Test for	Hydrophytic	Vegetation	
5							✓ 2 - Dominance Test	st is >50%		
6							3 - Prevalence Ind	ex is ≤3.0 ¹		
7							4 - Morphological			
8							data in Remark			
9,							Problematic Hydro	pnytic vege	tation (Exp	ilain)
10			_	_			¹ Indicators of hydric so	il and wetla	nd hydrolog	v must
Woody Vine Stratum (Plot size: 30	ft r	_)	65%	= Tota	al Cov	/er	be present, unless dist			y muse
1				-	_		Hydrophytic			
2					6 7 2	_	Vegetation Present? Ye	s	No	
				= Tota	al Cov	/er	16	7 ===		
Remarks: (Include photo numbers he	sie or on a	separate .	sricet.)							

Soil Sampling Point: WB-02 Up

(inches) Color (moist) 0 - 24 10YR 2/1	98	Color (moist) 10YR 3/4	%	Type ¹			
- IOYR 2/1	98	10 Y R 3/4	2	2.2.2.2.2	Loc ²	Texture	Remarks
			2	_ <u>C</u>	M	Silty clay	
						_ نست	
						-	
-			7	_	_		
Type: C=Concentration, D=De	enletion PM=	Reduced Matrix A	IS=Macks	d Sand G	rains	21 ocation: P	L=Pore Lining, M=Matrix.
lydric Soil Indicators:	epicaon, raw	reduced Matrix, N	io-waske	u ound o	iaiis.		Problematic Hydric Soils ³ :
Histosol (A1)		Sandy	Gleved N	latrix (S4)			irie Redox (A16)
Histic Epipedon (A2)			Redox (S			Dark Surfa	
Black Histic (A3)		Strippe	ed Matrix	(S6)		Iron-Mang	anese Masses (F12)
Hydrogen Sulfide (A4)				ineral (F1			ow Dark Surface (TF12)
_ Stratified Layers (A5)				Matrix (F2)		Other (Exp	olain in Remarks)
_ 2 cm Muck (A10)	// / / / :		ed Matrix				
 Depleted Below Dark Surfa Thick Dark Surface (A12) 	ace (A11)		Dark Sur		7)	3Indicators of I	hydrophytic vegetation and
Sandy Mucky Mineral (S1)			Depressi	ons (F8)).		drology must be present,
5 cm Mucky Peat or Peat (Depressi	0113 (1 0)			turbed or problematic
testrictive Layer (if observed						1	
Type:							
Depth (inches):						Hydric Soil Pre	sent? Yes No
YDROLOGY							
	s:						
Vetland Hydrology Indicators		ed; check all that a	apply)			Secondary I	ndicators (minimum of two require
Vetland Hydrology Indicators			apply)	ves (B9)		THE R. P. LEWIS CO., LANSING, MICH.	ndicators (minimum of two require Soil Cracks (B6)
Vetland Hydrology Indicators Primary Indicators (minimum of		Water-St				Surface	
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1)		Water-St Aquatic F	ained Lea	3)		Surface Drainag	Soil Cracks (B6)
Vetland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2)		Water-St Aquatic F True Aqu	ained Lea auna (B1	3) s (B14)		Surface Drainag Dry-Sea	Soil Cracks (B6) e Patterns (B10)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-St Aquatic F True Aqu Hydroger	ained Lea auna (B1 atic Plant Sulfide (3) s (B14) Odor (C1)	ving Roots	Surface Drainag Dry-Sea Crayfish	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Water-St Aquatic F True Aqu Hydroger Oxidized	ained Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1)	1000	Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Water-St Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1) eres on Li ced Iron (C	1000	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea Fauna (B1 Patic Plant Sulfide (Rhizosph of Reduc on Reduc k Surface	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7)	(4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria	f one is requir	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc k Surface Well Dat	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	(4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca	f one is requir	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea Fauna (B1 Patic Plant Sulfide (Rhizosph of Reduc on Reduc k Surface	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	(4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca	f one is requir al Imagery (B7 ave Surface (B	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea fauna (B1 fatic Plant a Sulfide (Rhizosph e of Reduc on Reduc k Surface well Dat cplain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	(4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca	al Imagery (B7 ave Surface (B	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of Other (Ex	ained Lea fauna (B1 fatic Plant in Sulfide (Rhizosph e of Reduction Reduction k Surface in Well Date (plain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	(4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Concar Geld Observations: Surface Water Present?	al Imagery (B7 ave Surface (B	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of S8) Other (Ex	ained Lea auna (B1 atic Plant a Sulfide (Rhizosph of Reduct on Reduct on Reduct well Dat colain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	(4) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi FAC-Ne	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) autral Test (D5)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca field Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	al Imagery (B7 ave Surface (B7 Yes N	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of S8) Other (Ex No Depth (in No	ained Lea fauna (B1 natic Plant n Sulfide (Rhizosph e of Reduc on Reduc on Reduc k Surface r Well Dat kplain in R nches): nches): nches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) lemarks)	(24) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomod FAC-Ne	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Vater Table Present? Saturation Present? includes capillary fringe) Describe Recorded Data (strea	al Imagery (B7 ave Surface (B7 Yes N	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of S8) Other (Ex No Depth (in No	ained Lea fauna (B1 natic Plant n Sulfide (Rhizosph e of Reduc on Reduc on Reduc k Surface r Well Dat kplain in R nches): nches): nches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) lemarks)	(24) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomod FAC-Ne	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) autral Test (D5)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present? Sincludes capillary fringe)	al Imagery (B7 ave Surface (B7 Yes N	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge of S8) Other (Ex No Depth (in No	ained Lea fauna (B1 natic Plant n Sulfide (Rhizosph e of Reduc on Reduc on Reduc k Surface r Well Dat kplain in R nches): nches): nches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) lemarks)	(24) ed Soils (C	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomod FAC-Ne	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) autral Test (D5)

Project/Site: Byron Solar				City/C	ounty	Dodge		Sampling I	Date: _	2020-	-10-29
Applicant/Owner: EDF Renewables							State: Minnesota	Sampling I	Point:	WB-0	2 Wet
Investigator(s): David Kuhlmann				Sectio	n, To	wnship, Ra	nge: Section 13, T10	6N, R16W			
Landform (hillslope, terrace, etc.): Swa							(concave, convex, none)	_			
Slope (%): 5 Lat. 43.988	487			Long:	-92	.692026	Transfer Takes	Datum: N	AD 83	3	
Soil Map Unit Name: Clyde-Floyd co	omplex	ι, 1 to 4	4 percent sl	opes	(M5	18B)	NWI classific	cation: Nor	ne		
Are climatic / hydrologic conditions on th	e site ty	pical for	this time of year	ar? Ye	es	No	(If no, explain in R	Remarks.)			
Are Vegetation, Soil, or I							'Normal Circumstances"		es v	No	0
Are Vegetation, Soil, or I							eeded, explain any answe				
SUMMARY OF FINDINGS - A										ature	s, etc.
Hydrophytic Vegetation Present?	Yes	~	No								
Hydric Soil Present?	Yes		No	9.1		e Sampled					
Wetland Hydrology Present?	Yes_		No		with	in a Wetlar	nd? Yes	No_		4	
Remarks:											
Grassy swale											
VEGETATION – Use scientific n	ames	of plan	nts.								
30 ft r			Absolute	12/2/11	010-61-	Indicator	Dominance Test work	ksheet;			
Tree Stratum (Plot size: 30 ft r			% Cover	Spec	cies?	Status	Number of Dominant S				741
1					_		That Are OBL, FACW,	OFFAC.			(A)
3						$\overline{}$	Total Number of Domin Species Across All Stra				(B)
4.						$\overline{}$		100		_	(0)
5.							Percent of Dominant S That Are OBL, FACW,		00		(A/B)
15	£+			= Tota	al Cov	er	1	200			X X
Sapling/Shrub Stratum (Plot size 15							Prevalence Index wor		8 6. Jan 28.		
1				-	_		Total % Cover of:	x1:	Multiply - O	y by:	-
2				-	_		OBL species 60		= 120		-
3				-	_	-	FAC species 10		= 30		=
4,					_		FACU species 5		= 20		
0.				= Tota	al Cov		UPL species 0		= 0		-
Herb Stratum (Plot size: 5 ft r)		-				Column Totals: 75	(A)	170		(B)
1. Phalaris arundinacea			50			FACW	1-17-4				- 101
2, Echinochloa crus-galli			10	_		FACW	Prevalence Index	10-10 P. St. 10-1			-
3. Setaria pumila			10	_	_	FAC	Hydrophytic Vegetati				
4. Trifolium pratense			5	_	_	FACU	1 - Rapid Test for		Vegeta	ation	
5,				_	_	_	2 - Dominance Tes				
6				-	_		✓ 3 - Prevalence Ind		1 /5-	also some	
7				-	_	-	4 - Morphological / data in Remark				
8				_	_		Problematic Hydro				
9,				_	_						
10			75%	= Tota	al Cov	er er	¹ Indicators of hydric so be present, unless dist	il and wetlar	nd hydr	ology n	nust
Woody Vine Stratum (Plot size: 30 f)					Transport of the Paris of the P	-4 C 6.2			
1			->	-	_		Hydrophytic				
2,				+17	0.6		Vegetation Present? Ye	s	No		
Remarks: (Include photo numbers her	0 or on a	conora		= Tota	al Cov	er	V-200 - 2		4.		
		10,700	A STATE OF								

SOIL Sampling Point: WB-02 Wet

(inches) Color (moist) 0 - 8 10YR 2/1	%	Color (moiet)	%	esType1	Loc ²	Texture	Remarks
	98	Color (moist) 10YR 3/4	2	С	M	Silty clay	Nemarks
		7 7			-		
8 - 24 10YR 4/2	75	10YR 5/8	25	_ <u>C</u>	M	Clay	
	_	-	-	-	_		
- 1/2							
		1.7					
Type: C=Concentration, D=D	Penletion Ph	M=Reduced Matrix M	IS=Macks	ad Sand Gr	rains	21 ocation: D	L=Pore Lining, M=Matrix.
ydric Soil Indicators:	repletion, 1st	W-INCODECC WINDIN, W	iO-widake	d Odno Oi	airis.		Problematic Hydric Soils ³ :
Histosol (A1)		Sandy	Gleyed N	latrix (S4)			irie Redox (A16)
Histic Epipedon (A2)			Redox (S			Dark Surfa	
Black Histic (A3)		Strippe	d Matrix	(S6)			anese Masses (F12)
Hydrogen Sulfide (A4)				lineral (F1)			ow Dark Surface (TF12)
_ Stratified Layers (A5)				Matrix (F2)		Other (Exp	olain in Remarks)
2 cm Muck (A10)Depleted Below Dark Sur	face (A11)		ed Matrix	(F3) face (F6)			
Thick Dark Surface (A12)				Surface (F7)	3Indicators of I	hydrophytic vegetation and
Sandy Mucky Mineral (S1			Depressi				drology must be present,
5 cm Mucky Peat or Peat			2000	0.07			turbed or problematic
	d).						
Restrictive Layer (if observe	uj.						
Restrictive Layer (if observe Type:	u).	_				Undela Call Dea	wanta van v
Type: Depth (inches): Remarks:		ached, A12 a	ıssum	ed		Hydric Soil Pre	esent? Yes No
Type: Depth (inches): Remarks: 3 horizon could no		ached, A12 a	ıssum	ed		Hydric Soil Pre	esent? Yes No
Type: Depth (inches): Remarks: 3 horizon could no	ot be re	ached, A12 a	ssum	ed		Hydric Soil Pre	esent? Yes No
Type:	ot be re			ed			esent? Yes No
Type:	ot be re		pply)			Secondary I	
Type:	ot be re	uired; check all that a	pply) ained Lea	ves (B9)		Secondary I	ndicators (minimum of two require
Type:	ot be re	uired; check all that a	pply) ained Lea auna (B1	ves (B9) 3)		Secondary I Surface Drainag	ndicators (minimum of two require Soil Cracks (B6) le Patterns (B10)
Type:	ot be re	uired: check all that a Water-St Aquatic F	pply) ained Lea auna (B1 atic Plant	ves (B9) 3) s (B14)		Secondary I Surface Drainag Dry-Sea	ndicators (minimum of two require Soil Cracks (B6)
Type:	ot be re	uired: check all that a Water-St. Aquatic F True Aqu Hydroger	pply) ained Lea auna (B1 atic Plant i Sulfide (ves (B9) 3) s (B14)	ving Roots	Secondary I Surface Drainag Dry-Sea Crayfish	ndicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2)
Type:	ot be re	uired; check all that a Water-St. Aquatic F True Aqu Hydroger Oxidized	pply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1)	to the second second	Secondary I Surface Drainag Dry-Sea Crayfish	ndicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2)
Type:	ot be re	uired; check all that a Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	pply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	indicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) In Burrows (C8) Bon Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Type:	ot be re	uired; check all that a Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	pply) ained Lea fauna (B1 atic Plant Sulfide (Rhizosph of Reduce on Reduce k Surface	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	ndicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Beson Water Table (C2) Burrows (C8) Fon Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Type:	ot be re	uired: check all that a Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	pply) ained Lea fauna (B1 atic Plant a Sulfide (Rhizosph of Reduce k Surface Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	indicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) In Burrows (C8) Bon Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Type:	ot be re	uired: check all that a Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	pply) ained Lea fauna (B1 atic Plant a Sulfide (Rhizosph of Reduce k Surface Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	indicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) In Burrows (C8) Bon Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Type:	rs: of one is requal Imagery (ave Surface	uired: check all that a Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex	pply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph of Reduc on Reduc k Surface Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	indicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) In Burrows (C8) Bon Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Type:	rs: of one is required al Imagery (ave Surface	uired: check all that a Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex	pply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph of Reduce on Reduce k Surface Well Dat cplain in Reduce	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	indicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) In Burrows (C8) Bon Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Type:	al Imagery (ave Surface	uired; check all that a Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex	pply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph of Reduce on Reduce k Surface Well Dat cplain in R	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted FAC-Ne	indicators (minimum of two requires Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) gason Water Table (C2) gason Visible on Aerial Imagery (C9) gro Stressed Plants (D1) ground Test (D5) gentral Test (D5)
Type:	al Imagery (ave Surface	uired: check all that a Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex	pply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph of Reduce on Reduce k Surface Well Dat cplain in R	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted FAC-Ne	indicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) In Burrows (C8) Bon Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Depth (inches): Remarks: B horizon could not be a price of the price	al Imagery (ave Surface Yes Yes Yes	uired; check all that a Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex	pply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph of Reduce on Reduce k Surface Well Dat cplain in R aches): 1 aches): 0 aches): 0	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C ction in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted FAC-Ne	indicators (minimum of two requires Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) gason Water Table (C2) gason Visible on Aerial Imagery (C9) gro Stressed Plants (D1) ground Test (D5) gentral Test (D5)
Type:	al Imagery (ave Surface Yes Yes Yes	uired; check all that a Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex	pply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph of Reduce on Reduce k Surface Well Dat cplain in R aches): 1 aches): 0 aches): 0	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C ction in Tille (C7) a (D9) Remarks)	4) ed Soils (C	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted FAC-Ne	indicators (minimum of two requires Soil Cracks (B6) ge Patterns (B10) gason Water Table (C2) gason Water Table (C2) gason Visible on Aerial Imagery (C9) gro Stressed Plants (D1) ground Test (D5) gentral Test (D5)

SOIL Sampling Point: WB_02 Up B

Profile Desc	cription: (Descri	be to th	e depth needed	to docu	ment the	indicate	or or confirm the abser	nce of indicators.)
Depth	Matrix			dox Feat				T
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-40	10YR 2/1	100			1		clay	
					†		,	†
					 	 		+
		_			 			+
					<u> </u>			
					1			
*Tvne: C = 0	Concentration, D =	- Depleti	on, RM = Reduce	l d Matrix	MS = N	lasked S	and Grains. **Locat	ion: PL = Pore Lining, M = Matrix
	il Indicators:	- Dop.c	011, 11111 11046.55	- Wide	., 1010	Idones 5		plematic Hydric Soils:
	isol (A1)		Sar	ndv Glev	ed Matrix	(S4)		edox (A16) (LRR K, L, R)
	ic Epipedon (A2)			idy Gleyd idy Redo		. (5,	Dark Surface (S	
	ck Histic (A3)			pped Ma				e Masses (F12) (LRR K, L, R)
	rogen Sulfide (A4	17			ky Minera	al (F1)		ark Surface (TF12)
	tified Layers (A5)			-	ed Matrix		Other (explain i	
	n Muck (A10)				atrix (F3)			in romana,
	leted Below Dark	Surface			Surface			
	ck Dark Surface (ark Surfa	. ,	*Indicators of hyd	drophytic vegetation and weltand
	dy Mucky Minera	,			essions (. ,		be present, unless disturbed or
	n Mucky Peat or l	` '			,	(-,	1., 4. 4 3,	problematic
	Layer (if observe	•	,			T		<u>'</u>
	Layer (II Observe	æj:					Hydric soil prese	.m.12 V
Type: Depth (inche	,o).				-		Tyuric Son prese	ent? Y
	es). 							
Remarks:								
B horizor	n could not be i	eached	d, A12 assume	d				
HYDROLO	JGV							
	drology Indicato	re.						
_	0,		required; check	all that a	nnly)		Sacandary Ir	-litare (minimum of two required)
		or one is	required; check a			140)		ndicators (minimum of two required)
	Water (A1)				Fauna (B			e Soil Cracks (B6)
	ter Table (A2)		-		uatic Plar			ge Patterns (B10)
Saturation Mater M						Odor (C1		ason Water Table (C2)
	arks (B1)				1 Knizosp	neres on		h Burrows (C8)
	nt Deposits (B2) posits (B3)			(C3)	o of Redu	uced Iron		tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
	t or Crust (B4)			•			- · · · <u></u>	orphic Position (D2)
	osits (B5)			(C6)	IIOII Neud	ICHOIT III T		eutral Test (D5)
	on Visible on Aeria	l Imager	/ (B7)	. ` ′	ck Surfac	e (C7)		sulai 1631 (DO)
	Vegetated Conca		· · · ·	•	or Well Da	. ,		
	tained Leaves (B9					Remarks)	
Field Obser	,	<u>'</u>					<u>'</u>	
Surface water		Yes	No	Х	Depth (i	inches):		
Water table	-	Yes	No	$\frac{x}{X}$	Depth (i		Ir	ndicators of wetland
Saturation p		Yes	No	$\frac{\lambda}{X}$	Depth (i			hydrology present? N
-	pillary fringe)				- ' '	,		
		m gauge	e monitoring well	aerial p	hotos, pr	revious ir	nspections), if available:	
	,		.,	,			·••	
Remarks:								
soils dry,	sample locate	d appro	ximately 1-2 fe	et high	er in ele	evation	than wetland sample	

Project/Site Byron Solar	City/0	County:	Dodge	Sampling Date:	4/29/21
Applicant/Owner: EDF Renewables		State:	MN		WB_02 Wet B
Investigator(s): David Kuhlmann			on, Township		T106N R16W
Landform (hillslope, terrace, etc.): depres	ssion	Local re	elief (concav	re, convex, none):	concave
Slope (%): 2 to 5 Lat: 43.987933		Long:	-92.6938		D 83 UTM 15N
Soil Map Unit Name Clyde-Floyd complex, 1 to 4 perc		~ <u> </u>			PEM1Af
Are climatic/hydrologic conditions of the site typical fo		f the year?		f no, explain in remarks)	
Are vegetation , soil , or hydrol		-		Are "normal circum	netances"
Are vegetation , soil , or hydrol		naturally pro			present? Yes
SUMMARY OF FINDINGS	<u> </u>			(If needed, explain any ans	wers in remarks.)
Hydrophytic vegetation present? Y					·
Hydric soil present? Y	- 1	Is the sa	ampled area	a within a wetland?	Υ
Indicators of wetland hydrology present?	-		tional wetlan		
	- I				
Remarks: (Explain alternative procedures here or in a	separate re	port.)			
wetland located along e	dge of agi	riculture with	h voluntee	r vegetation growing	
VEGETATION Use scientific names of plan				= : = : : : : : : : : : : : : : : : : :	
T-co Stratum (Plataiza: 30)	Absolute % Cover		Indicator Staus	Dominance Test Worksho	
Tree Stratum (Plot size: 30)	% COVE	t Species	Slaus	Number of Dominant Species that are OBL, FACW, or FAC	
				Total Number of Dominan	
3				Species Across all Strata	
4				Percent of Dominant Species	
5				that are OBL, FACW, or FAC	
	0	= Total Cover			
Sapling/Shrub stratum (Plot size: 15)			Prevalence Index Worksh	neet
1				Total % Cover of:	
				0.00	
2				OBL species 0 x 1	
2 3 4				FACW species 0 x 2	2 = 0
				FACW species 0 x 2 FAC species 100 x 3	2 = 0 3 = 300
		= Total Cover		FACW species 0 x 2	2 = 0 $3 = 300$ $4 = 0$
		=Total Cover		FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4	$ \begin{array}{ccccccccccccccccccccccccccccccccc$
3	0 50	= Total Cover	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
3 4 5)			FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
3 4 5 Electrical Section 4 5 Plot size: 5 5 5 1 Setaria pumila	50	Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 2 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A =	$ 2 = 0 \\ 3 = 300 \\ 4 = 0 \\ 5 = 0 \\ 300 \\ 3.00 $ (B)
3 4 5 Herb stratum (Plot size: 5 1 Setaria pumila 2 Panicum capillare	50	Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation In Rapid test for hydrophy	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00
3 4 5 Herb stratum (Plot size: 5) 1 Setaria pumila 2 Panicum capillare 3 4 5	50	Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophy X Dominance test is >500	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00
3 4 5 Herb stratum (Plot size: 5 1 Setaria pumila 2 Panicum capillare	50	Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophy X Dominance test is >500 X Prevalence index is ≤3	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) mdicators: ytic vegetation %
3 4 5 Herb stratum (Plot size: 5) 1 Setaria pumila 2 Panicum capillare 3 4 5 6 7	50	Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophy X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) mdicators: ytic vegetation % .0* ns* (provide
3 4 5 Herb stratum (Plot size: 5 1 Setaria pumila 2 Panicum capillare 3 4 5 6 7 8	50	Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophy X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) mdicators: ytic vegetation % .0* ns* (provide
3 4 5 Herb stratum (Plot size: 5) 1 Setaria pumila 2 Panicum capillare 3 4 5 6 7	50	Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophy X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet)	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 Indicators: ytic vegetation % .0* ns* (provide narks or on a
3 4 5 Herb stratum (Plot size: 5) 1 Setaria pumila 2 Panicum capillare 3 4 5 6 7 8 9	50 50	Y	FAC FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophy X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 Indicators: ytic vegetation % .0* ns* (provide narks or on a
3 4 5 Herb stratum (Plot size: 5) 1 Setaria pumila 2 Panicum capillare 3 4 5 6 7 8 9	50 50	Y Y	FAC FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophy X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet) Problematic hydrophytic (explain)	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) 3.00 (B) 4 = 0 3.00 (B) 3.00 (B) 3.00 (B)
3	50 50	Y Y	FAC FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophyt X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet) Problematic hydrophytic (explain) *Indicators of hydric soil and we present, unless disturbed	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) 3.00 (B) 3.00 is 'expertation' (B)
3	50 50 50	Y Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophyt X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet) Problematic hydrophyti (explain) *Indicators of hydric soil and we present, unless disturbe Hydrophytic	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) 3.00 (B) 3.00 is 'expertation'
3 4 5 Herb stratum (Plot size: 5) 1	50 50 50	Y Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophyt X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet) Problematic hydrophyti (explain) *Indicators of hydric soil and we present, unless disturbed tegetation	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) 3.00 (B) 3.00 is 'expertation'
3	50 50 50	Y Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophyt X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet) Problematic hydrophyti (explain) *Indicators of hydric soil and we present, unless disturbe Hydrophytic	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) 3.00 (B) 3.00 (B) 3.00 (B)
3	50 50 50	Y Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophyt X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet) Problematic hydrophyti (explain) *Indicators of hydric soil and we present, unless disturbed tegetation	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) 3.00 (B) 3.00 (B) 3.00 (B)
3	50 50 50	Y Y	FAC	FACW species 0 x 2 FAC species 100 x 3 FACU species 0 x 4 UPL species 0 x 5 Column totals 100 (A Prevalence Index = B/A = Hydrophytic Vegetation II Rapid test for hydrophyt X Dominance test is >500 X Prevalence index is ≤3 Morphogical adaptation supporting data in Rem separate sheet) Problematic hydrophyti (explain) *Indicators of hydric soil and we present, unless disturbed tegetation	2 = 0 3 = 300 4 = 0 5 = 0 300 (B) 3.00 (B) 3.00 (B) 3.00 (B) 3.00 (B)

SOIL Sampling Point: WB_02 Wet B

Profile Des	cription: (Descri	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the abse	ence of indicators.)
Depth	Matrix		-	dox Feat				<u> </u>
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-24	10YR 2/1	95	10YR 5/8	5	С	М	clay	
				_			,	
	Concentration, D =	= Depleti	on, RM = Reduce	ed Matrix	, MS = N	/lasked S		tion: PL = Pore Lining, M = Matrix
_	il Indicators:							blematic Hydric Soils:
	tisol (A1)			ndy Gleye		(S4)		Redox (A16) (LRR K, L, R)
His	tic Epipedon (A2)			ndy Redo				(S7) (LRR K, L)
	ck Histic (A3)			pped Ma	. ,			se Masses (F12) (LRR K, L, R)
	lrogen Sulfide (A4			ımy Mucl	-			Dark Surface (TF12)
	atified Layers (A5))		my Gley			Other (explain	in remarks)
	m Muck (A10)			oleted Ma	, ,			
Dep	leted Below Dark	Surface		dox Dark		. ,		
	ck Dark Surface (•		oleted Da		` ,	*Indicators of hy	drophytic vegetation and weltand
	idy Mucky Minera			dox Depr	essions ((F8)	hydrology mus	t be present, unless disturbed or
5 cr	m Mucky Peat or l	Peat (S3						problematic
Restrictive	Layer (if observe	ed):						
Type:	, , , , , , , , , , , , , , , , , , , ,	,					Hydric soil pres	ent? Y
Depth (inche	es):				•		,	
	,				•			
Remarks:								
LIVEROLA	201/							
HYDROLO								
_	drology Indicato							
	cators (minimum	of one is	required; check	all that a	pply)		· · · · · · · · · · · · · · · · · · ·	ndicators (minimum of two required)
	Water (A1)			- :	Fauna (B	,		ce Soil Cracks (B6)
	iter Table (A2)			_	uatic Plar			age Patterns (B10)
X Saturation						Odor (C		eason Water Table (C2)
	arks (B1)				l Rhizosp	heres on		sh Burrows (C8)
	nt Deposits (B2)			(C3)				ation Visible on Aerial Imagery (C9)
	oosits (B3)			-		uced Iron	· · · —	ed or Stressed Plants (D1)
	at or Crust (B4)				ron Redu	iction in T		orphic Position (D2)
	osits (B5)		(5-1)	(C6)			FAC-N	Neutral Test (D5)
	on Visible on Aeria			-	ck Surfac			
	Vegetated Conca		ce (B8)	_	or Well Da	, ,		
	tained Leaves (B9)		Other (E	xplain in	Remarks)	
Field Obser	vations:							
Surface wat	•	Yes	No	X	Depth (i	-		
Water table	•	Yes	X No		Depth (i	,		Indicators of wetland
Saturation p		Yes	X No		Depth (i	inches):	0	hydrology present? Y
	pillary fringe)							
Describe red	corded data (strea	am gauge	e, monitoring well	, aerial p	hotos, pi	revious ir	nspections), if available:	
<u> </u>								
Remarks:								

Project/Site Byron Solar	City/County:	Olmste	d Sampling Date:	4/28/21
Applicant/Owner: EDF Renewables	State	: MN	Sampling Point:	WB-101 Up
Investigator(s): David Kuhlmann	Se	ction, Townshi	ip, Range: Section 31	1 T107N R15W
Landform (hillslope, terrace, etc.): hillslope	Loca	al relief (conca	ve, convex, none):	none
Slope (%): five Lat: 44.035819	Long:	-92.671	42 Datum: NA	AD 83 UTM 15N
Soil Map Unit Name Garwin silty clay loam		١W١	Classification:	N/A
Are climatic/hydrologic conditions of the site typical for this	time of the year?	· Y ([If no, explain in remarks]	
Are vegetation X, soil , or hydrology	significar	ntly disturbed?	Are "normal circu	mstances"
Are vegetation , soil , or hydrology	naturally	problematic?		present? Yes
SUMMARY OF FINDINGS			(If needed, explain any an	swers in remarks.)
Hydrophytic vegetation present? N				
Hydric soil present? Y	Is the	sampled are	ea within a wetland?	N
Indicators of wetland hydrology present? N	f yes,	optional wetla	nd site ID:	
Remarks: (Explain alternative procedures here or in a sepa	arate report.)			
	. ,			
1	tilled agricultura	al field		
VEGETATION Use scientific names of plants.				
·	solute Dominar	n Indicator	Dominance Test Worksh	neet
Tree Stratum (Plot size: 30) %	Cover t Species	Staus	Number of Dominant Speci	es
1			that are OBL, FACW, or FA	.C: 0 (A)
2			Total Number of Domina	
3			Species Across all Strat	``
			Percent of Dominant Speci that are OBL, FACW, or FA	
	0 = Total Co	ver	that are OBE, I AOW, OF I A	O. 0.0070 (A/B)
Sapling/Shrub stratum (Plot size: 15)			Prevalence Index Works	heet
1	<u></u>		Total % Cover of:	
2			· —	1 = 0
3			· —	2 = 0
4			· —	3 = 0
	0 = Total Co	ver		5 = 0
Herb stratum (Plot size: 5)		VOI		A) 0 (B)
1			Prevalence Index = B/A =	
2			2,71	
3	· -		Hydrophytic Vegetation	Indicators:
4			Rapid test for hydroph	, ,
5			Dominance test is >50	
6			Prevalence index is ≤	
8			Morphogical adaptation	
			supporting data in Re separate sheet)	marks or on a
10			Problematic hydrophy	rtic vegetation*
	0 = Total Co	ver	(explain)	as regerane
Woody vine stratum (Plot size: 30)			*Indicators of hydric soil and w	vetland hydrology must be
1			present, unless disturb	ped or problematic
2			Hydrophytic vegetation	
	0 = Total Co	ver	present? N	
Remarks: (Include photo numbers here or on a separate s	heet)		· —	
Transaction (morado prioto numboro nere or on a separate s				

Project/Site: Byron Solar			City/Coun	ty: Dodge		Sampling Date: 2020-10-29		
Applicant/Owner: EDF Renewables						Sampling Point: WB-03 Up		
Investigator(s): David Kuhlmann			Section, Township, Range: Section 13, T106N, R16W					
Landform (hillslope, terrace, etc.): Flo					(concave, convex, none):			
Slope (%): 0 Lat: 43.991	96		Long: -9	2.683158		Datum: NAD 83		
Soil Map Unit Name: Coland, frequently f	looded-Spillville, oc	casionally flooded	complex, 0	to 2 percent sl	opes (1027A) NWI classific	ation: PEM1B		
Are climatic / hydrologic conditions on t	he site typical for	this time of year	ar? Yes_	V No_	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or	Hydrology	significantly	disturbed'	? Are	"Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or	Hydrology	naturally pro	blematic?	(If ne	eeded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - A	ttach site ma	ap showing	sampli	ng point l	ocations, transects	, important features, etc.		
Hydrophytic Vegetation Present?	Yes		11/1/2		202			
Hydric Soil Present?		No		the Sampled		/		
Wetland Hydrology Present?	Yes	No	Wit	thin a Wetlar	nd? Yes			
Remarks:								
Grazed pasture								
VEGETATION – Use scientific	names of plan	nts.						
30 ft r		Absolute		nt Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30 ft r)	% Cover	Species	? Status	Number of Dominant Sp That Are OBL, FACW, of			
2.					A TOTAL STREET	100		
3.					Total Number of Domin Species Across All Stra			
4					Percent of Dominant Sp	pacies		
5			-		That Are OBL, FACW,			
Sapling/Shrub Stratum (Plot size 1	5 ft r		= Total C	over	Prevalence Index wor	ksheet:		
1					Total % Cover of:			
2					OBL species 10	x 1 = 10		
3					FACW species 0	x 2 = 0		
4,					FAC species 20	x 3 = 60		
5			TOR ITS	-	FACU species 70	x = 4 = 280 x = 5 = 0		
Herb Stratum (Plot size: 5 ft r	-)	-	= Total C	over	UPL species 0 Column Totals: 100	$\times 5 = 0$ (A) 350 (B)		
1. Phleum pratense		50		FACU				
2. Poa pratensis		20		FAC	Prevalence Index	The state of the s		
3. Trifolium pratense		$-\frac{20}{10}$		FACU	Hydrophytic Vegetation			
4. Scirpus atrovirens		10	-	OBL		Hydrophytic Vegetation		
5,					2 - Dominance Tes 3 - Prevalence Inde			
6			-			daptations (Provide supporting		
7 8					data in Remarks	s or on a separate sheet)		
9,					Problematic Hydrop	ohytic Vegetation¹ (Explain)		
10					a			
Woody Vine Stratum (Plot size: 30			= Total C	over	'Indicators of hydric soi be present, unless distu	l and wetland hydrology must irbed or problematic.		
1			· 		Hydrophytic			
2,		_	-		Vegetation Present? Yes	s No		
			= Total C	over	163			
Remarks: (Include photo numbers he	re or on a separa	ate sneet.)						

SOIL Sampling Point: WB-03 Up

Depth Mat			dox Feature			43,000	6/22
(inches) Color (mois		Color (moist)	%	Type ¹	_Loc²	Texture	Remarks
0 - 24 10YR 2/1	98	10YR 3/4	_ 2	<u>C</u>	M	Silt Loam	
-							
- 10-	_	-	_	-	_		
					_		
Type: C=Concentration, D	Depletion, RI	M=Reduced Matrix,	MS=Maske	d Sand Gr	rains.		=Pore Lining, M=Matrix.
ydric Soil Indicators:							Problematic Hydric Soils ³ :
_ Histosol (A1)			y Gleyed M				ie Redox (A16)
Histic Epipedon (A2)			y Redox (S			Dark Surfa	
_ Black Histic (A3)			ed Matrix (the second second second			nese Masses (F12)
_ Hydrogen Sulfide (A4)			y Mucky M				ow Dark Surface (TF12) Jain in Remarks)
Stratified Layers (A5) 2 cm Muck (A10)			y Gleyed Natrix			Other (Exp	ain in Remarks)
_ Depleted Below Dark S	uface (A11)		x Dark Suri				
Thick Dark Surface (A1			ted Dark S)	3Indicators of h	ydrophytic vegetation and
Sandy Mucky Mineral (S			x Depressi	The state of the s			drology must be present,
5 cm Mucky Peat or Pe	at (S3)		A 74-70 P - 27	200		unless disti	urbed or problematic
estrictive Layer (if obser	red):						
Type:							sent? Yes No
						Hydric Soil Pres	sent? Yes No
Depth (inches):							
Depth (inches):							
Depth (inches):	ors:						
Depth (inches): temarks: YDROLOGY Vetland Hydrology Indica		uired: check all that	apply)				
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum			the second	ves (RG)		Secondary In	dicators (minimum of two require
Depth (inches):		Water-S	tained Lea			Secondary Ir	dicators (minimum of two require Soil Cracks (B6)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimun Surface Water (A1) High Water Table (A2)		Water-S Aquatic	tained Lea Fauna (B1)	3)		Secondary Ir Surface Drainage	idicators (minimum of two require Soil Cracks (B6) Patterns (B10)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-S Aquatic True Aq	tained Lea Fauna (B1) uatic Plants	3) s (B14)		Secondary Ir Surface Drainage Dry-Sea	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Depth (inches): temarks: YDROLOGY Vetland Hydrology Indication (minimum of the control o	of one is req	Water-S Aquatic True Aq Hydroge	tained Lea Fauna (B1)	3) s (B14) Odor (C1)	ving Roots	Secondary Ir Surface Drainage Dry-Sea: Crayfish	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Pepth (inches): YDROLOGY Vetland Hydrology Indica Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized	tained Lea Fauna (B1) uatic Plants in Sulfide C d Rhizosph	3) s (B14) Odor (C1) eres on Liv	The second second	Secondary Ir Surface Drainage Dry-Sea: Crayfish (C3) Saturation	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Pepth (inches): Pemarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized	tained Lea Fauna (B1) uatic Plants en Sulfide (3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Secondary Ir Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Pepth (inches): YDROLOGY Vetland Hydrology Indica Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized Presenc	tained Lea Fauna (B1) uatic Plants n Sulfide C d Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C	4)	Secondary Ir Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted Geomory	ndicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inches): Pemarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent	tained Lea Fauna (B1) uatic Plants in Sulfide C d Rhizosph e of Reduc fron Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7)	4)	Secondary Ir Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inches): Pemarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent Thin Mu (B7) Gauge 6	tained Lea Fauna (B1) uatic Plants in Sulfide C d Rhizosph de of Reduc fron Reduc ck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inches): Pemarks: YDROLOGY Vetland Hydrology Indicates (minimum of the period of the perio	of one is req	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent Thin Mu (B7) Gauge 6	tained Lea Fauna (B1) uatic Plants in Sulfide C d Rhizosph ie of Reduc iron Reduc ck Surface or Well Data	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inches): Comparison	of one is req	Water-S Aquatic Arue Aq Hydroge Oxidized Presend Recent Thin Mu (B7) Gauge of	tained Lea Fauna (B1) uatic Plants in Sulfide C d Rhizosph ie of Reduc iron Reduc ck Surface or Well Data	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inches): Idemarks: YDROLOGY Vetland Hydrology Indical Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Action Sparsely Vegetated Coticled Observations: Surface Water Present?	of one is req	Water-S Aquatic True Aq Hydroge Oxidized Presend Recent I Thin Mu (B7) Gauge Ge (B8) Other (B	tained Lea Fauna (B1) uatic Plants in Sulfide (d d Rhizosph de of Reduction Reduction ck Surface or Well Data explain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Active Sparsely Vegetated Confield Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present? Saturation Present?	erial Imagery (acave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Presend Recent Thin Mu (B7) Gauge of (B8) Other (B	tained Lea Fauna (B1) uatic Plants in Sulfide C d Rhizosph de of Reduc- tron Reduc- ck Surface or Well Data (xplain in R inches); inches); inches); inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sear Crayfish (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Process Process Process Process Process Process Primary Indicators (minimum of the process	erial Imagery (acave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Present Recent Thin Mu (B7) Gauge of (B8) Other (B No Depth (No Depth (No Depth (No Depth (Depth	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph e of Reduc ron Reduc ck Surface or Well Data (xplain in R inches); inches); al photos, p	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sear Crayfish (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Process Pro	erial Imagery (acave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Present Recent Thin Mu (B7) Gauge of (B8) Other (B No Depth (No Depth (No Depth (No Depth (Depth	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph e of Reduc ron Reduc ck Surface or Well Data (xplain in R inches); inches); al photos, p	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sear Crayfish (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Proposits (B4) Iron Deposits (B5) Inundation Visible on Ac Sparsely Vegetated Confided Observations: Surface Water (Patricular (B4) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ac Sparsely Vegetated Confided Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	erial Imagery (acave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Present Recent Thin Mu (B7) Gauge of (B8) Other (B No Depth (No Depth (No Depth (No Depth (Depth	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph e of Reduc ron Reduc ck Surface or Well Data (xplain in R inches); inches); al photos, p	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sear Crayfish (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Project/Site: Byron Solar				City/Co	ounty	Dodge		Sam	pling D	ate: 20	20-10-29
Applicant/Owner: EDF Renewables							State: Minnesota Sampling Point: WB-03 Wet				
Investigator(s): David Kuhlmann				Section, Township, Range: Section 13, T106N, R16W							
Landform (hillslope, terrace, etc.): Floodp							(concave, convex, no				
Slope (%); 2 Lat: 43.99198	5			Long:	-92	.683186		Datu	m. NA	D 83	
Soil Map Unit Name: Coland, frequently floode	ed-Spill	ville, od	ccasionally flooded	comple	x, 0 to	2 percent sl	opes (1027A) NWI clas	ssification:	PEM ²	1B	
Are climatic / hydrologic conditions on the s	site typ	ical fo	or this time of ye	ar? Ye	es	No	(If no, explain	in Remark	(S.)		
Are Vegetation, Soil, or Hyd										5	No
Are Vegetation, Soil, or Hyd											
SUMMARY OF FINDINGS - Atta											ures etc
STATE OF STA	+ 17-	1400	No	Juli	Pinti	g point i	ocations, transc	oto, mi	Jortan	it icut	ures, etc
			_ No		Is th	e Sampled	Area				
			No			in a Wetlar		~	No		
Remarks				-	7.00	2. 4			4.		
Grazed pasture											
orazea paetare											
VEGETATION - Use scientific nan	nes o	of pla	ints.								
20 ft r			Absolute	1 2 C N 1 N		Indicator	Dominance Test v	vorksheet			
Tree Stratum (Plot size: 30 ft r			% Cover	Spec	ies?	Status	Number of Domina		2		748
1				_	_		That Are OBL, FAC	VV, OF FA	U		(A)
2					_	_	Total Number of Do	-0.00	2		(D)
4.				-		7	Species Across All	Strata:	_		(B)
5.							Percent of Domina That Are OBL, FAC			0	(A/B)
45.61				= Tota	al Cov	rer	1,200				(700)
Sapling/Shrub Stratum (Plot size 15 ft)	11112			Prevalence Index				
1.				_	_		Total % Cover				y:
2				-	-	_	OBL species 30				_
3				-	_		FACW species 70		x 2 =		_
4,				_	_		FAC species 0		x 3 = x 4 =		_
5				-	740	_	FACU species 0		x 4 = x 5 =		-
Herb Stratum (Plot size: 5 ft r	-1		-	= Tota	al Cov	er	UPL species 0 Column Totals: 10			170	(D)
1. Phalaris arundinacea	- "		70		/	FACW	Column Totals,	,,	(A)	170	(B)
2 Scirpus atrovirens			30	·	_	OBL	Prevalence In	ndex = B//	A = 1.7	7	
3							Hydrophytic Vege	tation Inc	licators	s:	7-1
4							✓ 1 - Rapid Test			egetation	on
5							2 - Dominance	Test is >	50%		
6				_			✓ 3 - Prevalence				
7							4 - Morphologi				
8				_			data in Ren Problematic H				
9,			_	_			Froblematic H	ydiopitytic	vegeta	HIOH (E	xpiaiii)
10				_			¹Indicators of hydric	c soil and	wetland	hydrolo	nav must
)	100%	= Tota	al Cov	er er	be present, unless				
Woody Vine Stratum (Plot size: 30 ft r							Design of the state				
Woody Vine Stratum (Plot size: 30 ft r				-	_		Hydrophytic				
				-			Vegetation Present?	Yes_		lo	

SOIL Sampling Point: WB-03 Wet

	Matrix			dox Featur			43400	67.0
	Color (moist)	%	Color (moist)	%	Type ¹	_Loc²	Texture	Remarks
0 - 24 10	YR 2/1	75	10YR 4/6	25	_ <u>C</u>	M	Clay	
		_		-	-	_		
		-			-		-	
		_	-			_		
			-	-		_		
	nor vive of the con-	_	-	-		_		wedness and actions on
ype: C=Conce		letion, RN	#=Reduced Matrix, I	MS=Maske	d Sand Gr	ains.		PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
Histosol (A1)			Sands	Gleyed N	latrix (SA)			airie Redox (A16)
Histic Epiped				Redox (S			Dark Sur	
Black Histic (ed Matrix				ganese Masses (F12)
Hydrogen Su	ulfide (A4)		Loam	y Mucky M	ineral (F1)		Very Sha	llow Dark Surface (TF12)
_ Stratified Lay	Company of the Company			y Gleyed N	and the second second		Other (Ex	(plain in Remarks)
_ 2 cm Muck (A	and the second s	11.12		ted Matrix				
	low Dark Surfac	e (A11)		Dark Sur		,	Simultanian at	traduction and a supplemental
_ Thick Dark S	y Mineral (S1)			ted Dark S Depressi	ons (F8)	,		hydrophytic vegetation and ydrology must be present,
	Peat or Peat (S:	3)		Depressi	0113 (1 0)			sturbed or problematic.
Restrictive Laye							1	100000000000000000000000000000000000000
Type:							11.00	resent? Yes No
Type.							Hydric Soil Pr	geant? Voc No
Depth (inches)):							esent res no
Depth (inches								esent res no
Depth (inches) Remarks: YDROLOGY								esent, res no
Depth (inches) Remarks: YDROLOGY Vetland Hydrolo	ogy Indicators:		uired; check all that a	apply)				Indicators (minimum of two require
Depth (inches) Remarks: YDROLOGY Vetland Hydrolo	ogy Indicators: s (minimum of c		Water-S	tained Lea	0.00		Secondary	
Depth (inches) Remarks: YDROLOGY Vetland Hydrolo Primary Indicators Surface Wate High Water T	ogy Indicators: s (minimum of c er (A1) Table (A2)		Water-S	tained Lea Fauna (B1	3)		Secondary Surfac Draina	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10)
Depth (inches) Remarks: YDROLOGY Vetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A	ogy Indicators: s (minimum of o er (A1) Fable (A2)		Water-Si Aquatic True Aqu	tained Lea Fauna (B1 uatic Plant	3) s (B14)		Secondary Surfac Draina Dry-Se	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2)
Primary Indicators Surface Water High Water T Saturation (A Water Marks	ogy Indicators: s (minimum of o er (A1) Fable (A2) A3) s (B1)		Water-Si Aquatic True Aqu Hydroge	tained Lea Fauna (B1 uatic Plant n Sulfide (3) s (B14) Odor (C1)		Secondary Surfac Draina Dry-Se Crayfis	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8)
Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De	ogy Indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2)		Water-Si Aquatic True Aqu Hydroge Oxidized	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph	3) s (B14) Odor (C1) eres on Liv		Secondary Surfac Draina Dry-Se Crayfis	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (inches) Remarks: YDROLOGY Vetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits	ogy Indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3)		Water-Si Aquatic l True Aqu Hydroge Oxidized Presence	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Liv ced Iron (C	4)	Secondary Surface Draina Dry-See Crayfis (C3) Satura	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Depth (inches) Remarks: YDROLOGY Netland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or	ogy Indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4)		Water-S Aquatic True Aqu Hydroge Oxidized Presence Recent I	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc ron Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C	4)	Secondary Surface Draina Dry-See Crayfis (C3) Satura Stunte	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) sason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches) Remarks: YDROLOGY Netland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or t Iron Deposits	ogy Indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)	ne is requ	Water-S Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Mu	tained Lea Fauna (B1 uatic Plant In Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Secondary Surface Draina Dry-See Crayfis (C3) Satura Stunte	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Depth (inches) Remarks: YDROLOGY Vetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (Iron Deposits Inundation Vi	ogy Indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4)	ne is requ	Water-S Aquatic I Arue Aqu Hydroge Oxidized Presenc Recent I Thin Mud	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface or Well Dat	3) s (B14) Odor (C1) eres on Liv ted Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Draina Dry-See Crayfis (C3) Satura Stunte	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) sason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Print Deposits Algal Mat or Union Deposits Inundation Vig. Sparsely Veg.	ogy Indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) risible on Aerial I gelated Concave	ne is requ	Water-S Aquatic I Arue Aqu Hydroge Oxidized Presenc Recent I Thin Mud	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface or Well Dat	3) s (B14) Odor (C1) eres on Liv ted Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Draina Dry-See Crayfis (C3) Satura Stunte	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) sason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches) Remarks: YDROLOGY Netland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (Incomplete Sparsely Vegen) Field Observation	ogy Indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) risible on Aerial I gelated Concave	magery (E Surface	Water-S Aquatic I Arue Aqu Hydroge Oxidized Presenc Recent I Thin Mud	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface or Well Dat explain in R	3) s (B14) Odor (C1) eres on Liv ted Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Draina Dry-See Crayfis (C3) Satura Stunte	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) sason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Primary Indicators Surface Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Inundation Vi Sparsely Veg Surface Water Primary Inches	ogy Indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) risible on Aerial I gelated Concave ons: resent?	magery (le Surface	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presenc Recent I Thin Mu Gauge o (B8) Other (E	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface or Well Dat xplain in R	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Secondary Surface Draina Dry-See Crayfis (C3) Satura Stunte	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) sason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches) Remarks: YDROLOGY Netland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or of Iron Deposits Inundation Vi Sparsely Veg Field Observation Surface Water Provider Table Preservation Preservation Staturation Preservation Preservation Staturation Preservation	ogy Indicators: s (minimum of oper (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) isible on Aerial I gelated Concave ons: resent? Y sent? Y	magery (Fee Surface	Water-Si Aquatic i True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B8) Other (E	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface or Well Dat (xplain in R inches); inches);	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Secondary Surface Draina Dry-See Crayfis (C3) Satura Stunte 66) FAC-N	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) sason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Popth (inches) Remarks: YDROLOGY Netland Hydrolo Primary Indicators Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (Incomplete Sediment) Iron Deposits Inundation Vianter Sparsely Vegetield Observation Surface Water Provider Table Presently Incomplete Sediment Presently Incomplete Sediment Presently Incomplete Sediment Presently Incomplete Sediment Incomple	ogy Indicators: s (minimum of oper (A1) Fable (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) risible on Aerial I gelated Concave ons: resent? y sent? y fringe)	magery (Fee Surface	Water-S Aquatic I Aquatic I True Aqu Hydroge Oxidized Presenc Recent I Thin Mu Gauge o (B8) Other (E	tained Lea Fauna (B1 uatic Plant in Sulfide (Rhizosph of Reduct ron Reduct ck Surface or Well Dat (xplain in R inches); inches); inches); inches); inches); inches);	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) lemarks)	4) ed Soils (C	Secondary Surface Draina Dry-See Crayfis Sturte Stunte FAC-N	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) sason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5)
Print Deposits Algal Mat or Union Deposits Inundation Vision Deposits Inundation Deposits Inundation Deposits Inundation Deposits Inundation Deposits Inundation Deposits Inundation Deposits Inundation Deposits Inundation Deposits Inundat	ogy Indicators: s (minimum of oper (A1) Fable (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) risible on Aerial I gelated Concave ons: resent? y sent? y fringe)	magery (Fee Surface	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B8) Other (E No Depth (No Depth (tained Lea Fauna (B1 uatic Plant in Sulfide (Rhizosph of Reduct ron Reduct ck Surface or Well Dat (xplain in R inches); inches); inches); inches); inches); inches);	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) lemarks)	4) ed Soils (C	Secondary Surface Draina Dry-See Crayfis Sturte Stunte FAC-N	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) sason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5)

Project/Site: Byron Solar		City/Coun	ty: Dodge		Sampling Date: 2020-10-29	
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: WB-04 U				
nvestigator(s): David Kuhlmann		Section, T	ownship, Ra	nge: Section 13, T106	SN, R16W	
andform (hillslope, terrace, etc.): Floodplain				(concave, convex, none):		
Slope (%): 0 Lat: 43.992329		Long: -9	2.685574		Datum: NAD 83	
Soil Map Unit Name: Coland, frequently flooded-Spillville, occase					ation: PEM1B	
Are climatic / hydrologic conditions on the site typical for the	his time of ye	ar? Yes	✓ No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map						
Hydrophytic Vegetation Present? Yes	No				2 1 12 12 24 12 12 12 12 12 12 12 12 12 12 12 12 12	
Hydric Soil Present? Yes		Ist	the Sampled			
Wetland Hydrology Present? Yes	No	wit	thin a Wetlan	nd? Yes	No	
Remarks:						
Grazed pasture						
VEGETATION – Use scientific names of plants	S.		- (
30 ft r	Absolute		nt Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species	? Status	Number of Dominant Sp		
1				That Are OBL, FACW, o	or FAC:(A)	
3.			_	Total Number of Domini Species Across All Stra	•	
4.						
5.				Percent of Dominant Sp That Are OBL, FACW, of		
15 ft r		= Total C	over	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Sapling/Shrub Stratum (Plot size 15 ft r)				Prevalence Index work		
1		-	-	Total % Cover of: OBL species 30	$\frac{\text{Multiply by:}}{\text{x 1} = 30}$	
2		_	7	FACW species 0	x 2 = 0	
3		+	-	FAC species 15	x 3 = 45	
5.				FACU species 55	x 4 = 220	
A second		= Total C	over	UPL species 0	x 5 = 0	
Herb Stratum (Plot size: 5 ft r)		1	2.577	Column Totals: 100	(A) 295 (B)	
1. Trifolium pratense	35		FACU		2.0	
2. Scirpus atrovirens	= 30 20		OBL	Prevalence Index		
3. Phleum pratense	- 20 15		FACU	Hydrophytic Vegetation		
4. Poa pratensis	15		FAC	1 - Rapid Test for F	lydrophytic Vegetation	
5,				✓ 3 - Prevalence Inde		
6		· -			daptations (Provide supporting	
7			-		s or on a separate sheet)	
8			-	Problematic Hydrop	phytic Vegetation¹ (Explain)	
10.				A TOTAL CO.		
Woody Vine Stratum (Plot size: 30 ft r		= Total C	over	¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must irbed or problematic.	
1.				Hydronhytic		
2.				Hydrophytic Vegetation		
		- Total C	6.52	Present? Yes	No	
		= Total C	over	No. of the last of		

SOIL Sampling Point: WB-04 Up

(inches) Color (mois	×		Redox Featur		-		47.4
0 04 401/0 0/0		Color (moi		Type ¹	Loc²	Texture	Remarks
0 - 24 10YR 2/2	75	10YR 3/4	25	_ <u>C</u>	M	Silt Loam	
-		L-					
-							
					-		
		-			_		
and many compositions		3	0.9008.00		1		SECULIAR STORES
Type: C=Concentration, D=	Depletion, R	M=Reduced Ma	trix, MS=Maske	ed Sand G	rains.		=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
lydric Soil Indicators:				-L: VOA			(H)
Histosol (A1) Histic Epipedon (A2)			Sandy Gleyed N Sandy Redox (S			Coast Prair	rie Redox (A16)
Black Histic (A3)			tripped Matrix				anese Masses (F12)
Hydrogen Sulfide (A4)			oamy Mucky M				ow Dark Surface (TF12)
Stratified Layers (A5)			oamy Gleyed N				lain in Remarks)
_ 2 cm Muck (A10)			epleted Matrix				
Depleted Below Dark Su			ledox Dark Sur			W. C. S. T. C.	
_ Thick Dark Surface (A12			epleted Dark S	The second second second)		ydrophytic vegetation and
Sandy Mucky Mineral (S		_ R	ledox Depressi	ons (F8)			drology must be present,
5 cm Mucky Peat or Pea Restrictive Layer (if observ						uniess dist	urbed or problematic
restrictive Layer (il observ	euj.						
Type:							
Type: Depth (inches): emarks:						Hydric Soil Pre	sent? Yes V No
Depth (inches):						Hydric Soil Pre	sent? Yes No
Depth (inches):Remarks:						Hydric Soil Pre	sent? Yes No
Depth (inches):Remarks:	ors:					Hydric Soil Pre	sent? Yes No
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicat		quired; check all	that apply)				ndicators (minimum of two require
Depth (inches):Remarks: YDROLOGY Vetland Hydrology Indicat			that apply) ter-Stained Lea	ves (B9)		Secondary In	
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum		Wat				Secondary Ir	ndicators (minimum of two require
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Wat	ter-Stained Lea	3)		Secondary Ir Surface Drainage	ndicators (minimum of two require Soil Cracks (B6)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Wat Aqu True	ter-Stained Lea latic Fauna (B1	3) s (B14)		Secondary Ir Surface Drainage Dry-Sea	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Wat Aqu True Hyd	ter-Stained Lea latic Fauna (B1 e Aquatic Plant	3) s (B14) Odor (C1)	ving Roots	Secondary Ir Surface Drainage Dry-Sea Crayfish	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Wat Aqu True Hyd Oxid	ter-Stained Lea natic Fauna (B1 e Aquatic Plant Irogen Sulfide (3) s (B14) Odor (C1) eres on Li		Secondary Ir Surface Drainage Dry-Sea Crayfish S(C3) Saturatio	ndicators (minimum of two require Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Wat Aqu True Hyd Oxid Pres	ter-Stained Lea latic Fauna (B1 e Aquatic Plant Irogen Sulfide (dized Rhizosph	3) s (B14) Odor (C1) eres on Li ced Iron (C	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Stunted	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Depth (inches): Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Wat Aqu Aqu True Hyd Oxic Pres Rec Thir	ter-Stained Lea latic Fauna (B1 e Aquatic Plant lrogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatio Stunted C6) Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):	of one is red	Wat Aqu True Hyd Oxic Pres Rec Thir (B7) Gau	ter-Stained Lea latic Fauna (B1 e Aquatic Plant lrogen Sulfide (dized Rhizosph sence of Reduc sent Iron Reduc n Muck Surface uge or Well Dat	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatio Stunted C6) Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Print Deposits (B2) Depth (inches): Proposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Con	of one is red	Wat Aqu True Hyd Oxic Pres Rec Thir (B7) Gau	ter-Stained Lea latic Fauna (B1 e Aquatic Plant lrogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatio Stunted C6) Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Property (inches): Property Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations:	of one is rec ial Imagery cave Surfac	Wat Aqu True Hyd Oxid Pres Rec Thir (B7) Gau e (B8) Othe	ter-Stained Lea latic Fauna (B1 e Aquatic Plant lrogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface uge or Well Dat er (Explain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatio Stunted C6) Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations:	of one is rec	Wat Aqu True Hyd Oxid Pres Rec Thir (B7) Gau e (B8) Othe	ter-Stained Lea latic Fauna (B1 e Aquatic Plant lirogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface age or Well Dat er (Explain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatio Stunted C6) Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present?	of one is rec		ter-Stained Lea tatic Fauna (B1 e Aquatic Plant Irogen Sulfide (dized Rhizosph sence of Reductent Iron Reductent Iron Reducten Muck Surface age or Well Dater (Explain in Repth (inches):pth (inches):pth (inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatio Stunted C6) Geomor FAC-Ne	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
Property (inches): Proper	of one is rec	Wat Aqu Aqu True Hyd Oxid Pres Rec Thir Gau e (B8) Othe No	ter-Stained Lea latic Fauna (B1 e Aquatic Plant lirogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface age or Well Dat er (Explain in R pth (inches); pth (inches);	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatie Stunted G6) Geomor FAC-Ne	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (str	rial Imagery cave Surface Yes Yes Yes eam gauge,	Wat Aqu Aqu True Hyd Oxid Pres Rec Thir Gau e (B8)	ter-Stained Lea latic Fauna (B1 e Aquatic Plant lirogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface age or Well Dat er (Explain in R pth (inches); pth (inches);	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatie Stunted G6) Geomor FAC-Ne	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
Property (inches): Property Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Sincludes capillary fringe)	rial Imagery cave Surface Yes Yes Yes eam gauge,	Wat Aqu Aqu True Hyd Oxid Pres Rec Thir Gau e (B8)	ter-Stained Lea latic Fauna (B1 e Aquatic Plant lirogen Sulfide (dized Rhizosph sence of Reduc ent Iron Reduc n Muck Surface age or Well Dat er (Explain in R pth (inches); pth (inches);	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Ir Surface Drainage Dry-Sea Crayfish S (C3) Saturatie Stunted G6) Geomor FAC-Ne	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)

Sampling Date: 2020-10-29	
Sampling Point: WB-04 Wet	
106N, R16W	
e): Concave	
Datum: NAD 83	
ification: PEM1B	
Remarks.)	
s" present? Yes No	
wers in Remarks.)	
ts, important features, etc.	
./	
V No	
orksheet:	
t Species N, or FAC: 2 (A)	
minant Strata: 2 (B)	
N, or FAC: 100 (A/B)	
vorksheet:	
f: Multiply by:	
x 1 = 40	
x 2 = 120	
x 3 = 0	
x 4 = 0	
x 5 = 0	
O (A) 160 (B)	
lex = B/A = 1.6	
ation Indicators:	
or Hydrophytic Vegetation	
Test is >50%	
ndex is ≤3.0 ¹	
al Adaptations ¹ (Provide supporting	
arks or on a separate sheet)	
drophytic Vegetation¹ (Explain)	
SHE DE LA COLOR DE	
soil and wetland hydrology must isturbed or problematic.	
Yes No	
Yes No	

SOIL Sampling Point: WB-04 Wet

Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Black Histic (A4) Stratified Layers (A5) Depleted Matrix (F2) Cam Muck (A10) Depleted Below Dark Surface (A11) Stratified Layers (A12) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Feedox Depressions (F8) Waterstrictive Layer (if observed): Type: Depth (inches): Hydri Remarks: Hydri Hydri Setriace Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	re Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	
Indicators: Indicators:	-
ydric Soil Indicators: Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Peat or Peat (S3) estrictive Layer (if observed): Type: Deplt (inches): emarks: Depleted Matrix (F3) Depleted Dark Surface (F7) Find Redox Depressions (F8) Fin	
ydric Soil Indicators: Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Peat or Peat (S3) estrictive Layer (if observed): Type: Deplt (inches): emarks: Depleted Matrix (F3) Depleted Dark Surface (F7) Find Redox Depressions (F8) Fin	
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Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox Sandy Redox Sandy Redox (S5) Sandy Mineral (F1) Stratified Layers (A5) Sandy Gleyed Matrix (F2) Sandy Gleyed Matrix (F2) Sandy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (F5) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Peat or Peat (S3) Sestrictive Layer (if observed): Type: Depth (inches): Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mineral (S1) Redox Depressions (F8) Sandy Mineral (S1) Redox Depressions (F8) Sandy Mineral (S1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redox Depressions (F8) Sandy Mineral (F1) Redo	
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Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox Sufficiel (A4) Stratified Layers (A5) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (F2) Sandy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Sind Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Peat or Peat (S3) Sestrictive Layer (if observed): Type: Depth (inches): Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (F1) Redox Depressions (F8) Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Mineral (F1) Muck Sandy Mucky Matric (F1) Muck Sandy Mucky Mucky Mucky Mucky Ma	
Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Pepleted Below Dark Surface (A11) Pepleted Below Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sind Sandy Mucky Mineral (S1) Redox Depressions (F8) Stratified Layer (if observed): Type: Depth (inches): Permarks: Hydria Hydrogen Sulfide Dark Surface (F6) Thick (Inches): Permarks: Physical Surface (F6) Thick Dark Surface (F7) Sind Redox Depressions (F8) Surface (F6) Thick Dark Surface (F7) Sind Redox Depressions (F8) Surface (F8) Surf	ation: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Mineral (S1) Some Mucky Peat or Peat (S3) Sestrictive Layer (if observed): Type: Depth (inches): Financy Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Find Deposits (B5) Inundation Visible on Aerial Imagery (B7) Seled Observations:	ators for Problematic Hydric Soils ³ :
Black Histic (A3) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Layers (A5) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Sind Redox Depressions (F8) Re	oast Prairie Redox (A16)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Pertictive Layer (if observed): Type: Depth (inches): Permarks: Proposition Permarks Permarks	ark Surface (S7)
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Loamy Gleyed Below Dark Surface (A11) Redox Dark Surface (F6) Per Gleyed Dark Surface (F7) Slind Gleyed Matrix (F3) Redox Dark Surface (F7) Slind Gleyed Matrix (F3) Redox Dark Surface (F7) Slind Gleyed Matrix (F3) Redox Dark Surface (F7) Slind Gleyed Matrix (F3) Redox Dark Surface (F7)	on-Manganese Masses (F12)
	ery Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sort Mucky Peat or Peat (S3) estrictive Layer (if observed): Type: Depth (inches): Emarks: Depth (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Indicate (B1) Iron Deposits (B5) Indicate (B1) Indicate (B2) Indicate (B2) Indicate (B3) Indicate (B3) Indicate (B4) In	ther (Explain in Remarks)
Thick Dark Surface (A12) Depleted Dark Surface (F7)	
Sandy Mucky Mineral (S1) Redox Depressions (F8)	ators of hydrophytic vegetation and
strictive Layer (if observed): Type:	etland hydrology must be present,
Depth (inches):	nless disturbed or problematic
Depth (inches):	
emarks: Proportion Proport	Burgon Burgo V av
Petland Hydrology Indicators: rimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Separation (B1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Selided Observations:	Soil Present? Yes No
Vetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sediment Deposits (B8) Other (Explain in Remarks) Sediment Deposits (B8) Other (Explain in Remarks) Sediment Deposits (B8) Other (Explain in Remarks)	
rimary Indicators (minimum of one is required: check all that apply) Seriace Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Seriace Water (A1) Water Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Flants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Seriace (B8) Other (Explain in Remarks) ield Observations:	
Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations:	condary Indicators (minimum of two requir
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Surface Soil Cracks (B6)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Drainage Patterns (B10)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Dry-Season Water Table (C2)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Squage or Well Data (D9) Other (Explain in Remarks)	Crayfish Burrows (C8)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) eld Observations:	Saturation Visible on Aerial Imagery (C9
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations:	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations:	Geomorphic Position (D2)
_ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations:	FAC-Neutral Test (D5)
ield Observations:	
277 277 21 22 22 23	
urface Water Present? Yes No Depth (inches):	
/ater Table Present? Yes No Depth (inches):	
aturation Present? Yes No _ C Depth (inches); Wetland Hyd	ology Present? Yes No
pescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availal	e:
demarks:	

Project/Site: Byron Solar		City/County	Dodge		Sampling Date: 2020-10-29
Applicant/Owner: EDF Renewables					Sampling Point: WB-05 Up
nvestigator(s): David Kuhlmann		Section, To	wnship, Ra	nge: Section 13, T106	6N, R16W
Landform (hillslope, terrace, etc.): Floodplain				(concave, convex, none):	_
Slope (%): 5 Lat: 43.9922791		Long: -92	.683207	0	Datum: NAD 83
Soil Map Unit Name: Coland, frequently flooded-Spil	ville, occasionally flooded	d complex, 0 t	o 2 percent sl	lopes (1027A) NWI classific	ation: PEM1B
Are climatic / hydrologic conditions on the site ty	ical for this time of ye	ear? Yes _	V No_	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrolog	y significantly	disturbed?	Are	"Normal Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydrolog	y naturally pro	oblematic?	(If ne	eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach s	ite map showing	samplin	g point l	ocations, transects	, important features, etc.
	No_ V	THE VE		200	
	V No		ne Sampled		V
	No	with	in a Wetla	nd? Yes	No
Remarks:					
VEGETATION – Use scientific names	of plants.				
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test work	
1.		Openios	Otatas	Number of Dominant Sp That Are OBL, FACW, of	
2.					
3.				Total Number of Domin Species Across All Stra	
4					
5		-		Percent of Dominant Sp That Are OBL, FACW,	
San Harriston in Charles (Plate Inc. 15 ft r		= Total Co	ver	Prevalence Index wor	behoot:
)			Total % Cover of:	
2		-	_		x 1 = 30
3.				FACW species 0	x 2 = 0
4.				FAC species 0	x 3 = 0
5.				FACU species 65	x 4 = 260
F.44		= Total Co	ver	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r) 1. Trifolium pratense	35	~	FACU	Column Totals: 95	(A) <u>290</u> (B)
2 Phleum pratense	30	-	FACU	Prevalence Index	= R/A = 3.1
3 Scirpus atrovirens	30	~	OBL	Hydrophytic Vegetation	3277 327
4					Hydrophytic Vegetation
5.				2 - Dominance Tes	it is >50%
6				3 - Prevalence Inde	ex is ≤3.0 ¹
7.					Adaptations ¹ (Provide supporting
8					s or on a separate sheet)
9,				Problematic Hydro	phytic Vegetation¹ (Explain)
10		_		Indicators of hydric soi	I and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r) <u>95%</u>	= Total Co	ver	be present, unless distu	urbed or problematic.
1				Hydrophytic	
2.				Vegetation	s No
Z-,					
Remarks: (Include photo numbers here or on a		= Total Co	ver	Present? Yes	<u> </u>

SOIL Sampling Point: WB-05 Up

O-24 10YR 2/1 75 10YR 3/4 25 C M Sitty clay Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thigh Capped Matrix (E4) Indicators for Problematic Hydric Soils*: Coast Prairie Redox (A16) Dark Surface (S7) Dark Surface (S7) University Statiled Leves (S5) Stratific Layers (A5) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Sandy Mudy Mineral (S1) Sandy Mudy Mineral (S1) Semblety Deat or Peat (S3) Redox Depressions (F8) Water-Marka (F8) Surface Water (A1) Water-Stained Leaves (B9) Surface Water (A1) High Vater Table (A2) Aquatic Fauna (S1) Saturation (A3) True Aquatic Flanta (B1) Secondary Indicators (minimum of two require functions of the formation of the formation of the		Matrix	0/		lox Featur		1 : 2	+ January	6 Anna Anna
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix. **Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Field Hydric Soils*: Indicators for Problematic Hydric Field Hydric Soils*: Indicators for Problematic Hydric Field Hydric Soils*: Indicators for Problematic Hydric Field Hydric Soils*: Indicators for Problematic Hydric Field Hydric Soils*: Indicators for Problematic Hydric Field Hydric Soils*: Indicators for Problematic Hydric Field Hyd		Color (moist)	- % - 7F	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Mistosol (A1)	0 - 24	10 YR 2/1	_ /5	10 YR 3/4	_ 25		IVI	Slity clay	
ydric Soil Indicators: Histosoi (A1) Histosoi (A1) Histosoi (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Boark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Moky Mineral (S1) Some Muck (A10) Depleted Dark Surface (B1) Thick Dark Surface (A12) Some Muck (A13) September of Park Surface (B1) Thick Dark Surface (A12) Some Muck (A13) Some Muck (A13) Depleted Dark Surface (B1) Thick Dark Surface (A12) Some Muck (A13) Some Muck (A13) Depleted Dark Surface (B1) Thick Dark Surface (A12) Some Muck (A13) Some Muck (A14) Depleted Dark Surface (B1) Thick Dark Surface (A12) Some Muck (A13) Some Muck (A14) Some Muck (A15) Findicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Wetland Hydrology Indicators: Imary Indicators (minimum of one is required: check all that apply) Sourface Water (A1) Weter-Stained Leaves (B9) Surface Soil Cracks (B6) Present? Yes No Metland Hydrology Indicators: Imary Indicators (minimum of two requires surface (B13) Sourface Water (A1) Water Marks (B1) Secondary Indicators (minimum of two requires surface (B14) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Sourface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B10) Sediment Deposits (B2) Oxidized Rhizespheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) leid Observations: urlace Water Present? Yes No Depth (inches): dater Table Present? Yes No Depth (inches): dater Table Present? Yes No Depth (inches): dater Table Present? Yes No Depth (inches): dater Table Present? Yes No Depth (inches): d		-							
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Mistosol (A1)	-								
Mistosol (A1)				*					
Mistosol (A1)		-		-	_	-	_	-	
Marice Soil Indicators:				3	-				
Mistosol (A1)	2000 1000	Composition 2: Zam		3 :500 :00 :000	- C	L STOR	-		Consults of opening
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histosci (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripted Matrix (S6) Dark Surface (S7) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) 2 cm Muck (A10) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Delow Dark Surface (A11) Peedox Dark Surface (F5) Depleted Delow Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Peedox Dark Surface (F7) Sandy Mucky Mineral (S1) Peedox Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Peedox Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Peedox Dark Surface (F7) Wetland Hydrology rindicators (minimum of one is required: check all that apply) Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soli Cracks (B6) Hydric Soil Present? Yes No Deplit (inches): Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soli Cracks (B6) Hydric Soli Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Present (B10) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface			pletion, RM	=Reduced Matrix, N	/IS=Maske	d Sand G	rains.		
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Black Histic (A3)		Or a second							
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Jepleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Semburky Peat or Peat (S3) Pepteted Dark Surface (F6) Sandy Mucky Mineral (S1) Semburky Peat or Peat (S3) Sestrictive Layer (if observed): Type: Deplth (inches): Wetland Hydrology Indicators: Inimary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) Secondary Indicators (minimum of two required water (B9) High Water Table (A2) Saturation (A3) True Aquatic Fauna (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Inno Deposits (B3) Presence of Reduced Iron (C4) John More Surface Water (B8) John More Surface Water (B8) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7) John More Surface (B7									
Stratified Layers (A5)		and the second second					ý		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F5) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Set Mucky Peat or Peat (S3) Pepter Solid Present? Pype: Depth (inches): Seterarks: PYDROLOGY Vetland Hydrology Indicators: Infimary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Depth (inches): Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation (Visible on Aerial Imagery (B7) Algal Mat or Crust (B4) In Deposits (B5) In Deposits (B5) In Deposits (B5) In Muck Surface (C7) In Deposits (B5) Sparsely Vegelated Concave Surface (B8) Depth (inches): Sufface Water Present? Sufface Water Present? Sufface Water Ray Pesent? Sufface Water Ary Sufface (C7) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Sufface Water Present? Sufface Water Present? Sufface Water Present? Sufface Water Present? Sufface Water Present? Sufface Water Present? Sufface Gauge, monitoring well, aerial photos, previous inspections), if available: Sumple located 1 foot higher in elevation than wetland sample point									
	2 cm M	uck (A10)							
Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:			ce (A11)					200	
						The state of the s	7)		
PyDROLOGY Wetland Hydrology Indicators: Intrinsery Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required: Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Surface Water (A3) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inim Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Cot thigher in elevation than wetland sample point				Redox	Depressi	ons (F8)			
Type:								unless dist	urbed or problematic
Depth (Inches):		Layer (if observed)):.						
POROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Secondary Indicators (minimum of two required: check all that apply) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Surface Water Present? Yes No Depth (inches): Veter Table Present? Yes No Depth (inches): Surface (B4) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Wetland Hydrol		art and		_				Hydric Soil Pre	sent? Yes No
Verland Hydrology Indicators: Surface Water (A1)	Depth (in	ches):						1	
Netland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Algal Mat or Crust (B4) Agent Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Secondary Indicators (minimum of two requires and the present of two requires and two requi									
Secondary Indicators (minimum of two required Surface Water (A1)	VDBOI O	icv.							
Surface Water (A1)			:						
High Water Table (A2)	Vetland Hy	drology Indicators		ired; check all that a	apply)			Secondary li	ndicators (minimum of two require
Saturation (A3)	Vetland Hy Primary Indi	drology Indicators cators (minimum of				ves (Rg)			
Water Marks (B1)	Vetland Hy rimary Indi Surface	drology Indicators cators (minimum of Water (A1)		Water-St	tained Lea			Surface	Soil Cracks (B6)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)	Vetland Hy Primary Indi Surface High Wa	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Water-St	tained Lea Fauna (B1	3)		Surface Drainag	Soil Cracks (B6) e Patterns (B10)
	Vetland Hy Primary Indi Surface High Wa Saturati	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Water-St Aquatic F True Aqu	tained Lea Fauna (B1 uatic Plant	3) s (B14)		Surface Drainag Dry-Sea	Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
	Vetland Hy Primary Indi Surface High Wa Saturati Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1)		Water-St Aquatic F True Aqu Hydroge	tained Lea Fauna (B1 uatic Plant n Sulfide (3) s (B14) Odor (C1)	ving Roots	Surface Drainag Dry-Sea Crayfish	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Geld Observations: Gurface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Gauge or Well Data (inches): Wetland Hydrology Present? Yes No Depth (inches): Gauge or Well Data (inches): Wetland Hydrology Present? Yes No Open No Open No Gauge or Well Data (inches): Wetland Hydrology Present? Yes No Open No	Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)		Water-St Aquatic F True Aqu Hydroger Oxidized	tained Lea Fauna (B1 uatic Plant n Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Li		Surface Drainag Dry-Sea Crayfish S (C3) Saturation	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
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Surface Water Present? Yes No Depth (inches):	Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-St Aquatic F True Aqu Hydrogei Oxidized Presence	tained Lea Fauna (B1 uatic Plant: n Sulfide (Rhizosph e of Reduc ron Reduc	3) s (B14) Odor (C1) eres on Li ed Iron (C	(4)	Surface Drainag Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Surface Water Present? Yes No Depth (inches):	Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presencer Recent In	tained Lea Fauna (B1 Justic Plants In Sulfide C Rhizosph e of Reductor Redu	3) s (B14) Odor (C1) eres on Li ed Iron (C tion in Tille (C7)	(4)	Surface Drainag Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Valer Table Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present? Yes No Wetland Hydrology Present? Yes No Depth (inches): Staturation Present? Yes No Wetland Hydrology Present? Yes No We	Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dej	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presencer Recent In Thin Muc	tained Lea Fauna (B1) uatic Plants n Sulfide (I Rhizosph e of Reduction ron Reduction ck Surface r Well Data	3) s (B14) Odor (C1) eres on Li red Iron (C tion in Tille (C7) a (D9)	(4)	Surface Drainag Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present. Yes No Saturation Present. Yes No Saturation Present. Yes No Saturation Present. Yes No Saturation Present. Yes No Saturation Present. Yes No Saturation Present. Yes No Saturation Present. Yes N	Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Sparsel	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial y Vegetated Concav	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presencer Recent In Thin Muc	tained Lea Fauna (B1) uatic Plants n Sulfide (I Rhizosph e of Reduction ron Reduction ck Surface r Well Data	3) s (B14) Odor (C1) eres on Li red Iron (C tion in Tille (C7) a (D9)	(4)	Surface Drainag Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: ample located 1 foot higher in elevation than wetland sample point	Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dej Inundati Sparsel	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial y Vegetated Concavivations:	one is requ Imagery (E ve Surface (Water-St Aquatic F True Aqu Hydrogei Oxidized Presence Recent It Thin Muc S7) Gauge o (B8) Other (E:	tained Lea Fauna (B1) uatic Plant: n Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface r Well Dat: xplain in R	3) s (B14) Odor (C1) eres on Li red Iron (C tion in Tille (C7) a (D9)	(4)	Surface Drainag Dry-Sea Crayfish Stunted Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
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Remarks:	Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Malinon Dep Inundati Sparsel Field Obser Surface Water Table Saturation Peincludes ca	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial y Vegetated Concavivations: ter Present?	Imagery (Eve Surface of YesYesYes	Water-St Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc Gauge o (B8) Other (E) No Depth (in No Depth (in	tained Lea Fauna (B1) uatic Plant: In Sulfide C Rhizosph e of Reduction ron Reduction ck Surface r Well Date xplain in R inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) emarks)	Wet	Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomor FAC-Ne	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5)
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Project/Site: Byron Solar		City/County: Dodge	Sampling Date: 2020-10-29			
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: WB-05				
nvestigator(s): David Kuhlmann		Section, Township, Range: Section 13, T106N, R16W				
andform (hillslope, terrace, etc.): Floodplain			(concave, convex, none): Concave			
Slope (%): 2-5 Lat: 43.9922485		ong: -92.6831316	Datum: NAD 83			
Soil Map Unit Name: Coland, frequently flooded-Spillville, occ	asionally flooded	complex, 0 to 2 percent sl	opes (1027A) NWI classification: PEM1B			
Are climatic / hydrologic conditions on the site typical for	this time of year	ar? Yes No_	(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology	_ significantly	disturbed? Are	"Normal Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)			
			ocations, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes	No					
	No	Is the Sampled				
Wetland Hydrology Present? Yes	No	within a Wetlan	nd? Yes No			
Remarks:						
/EGETATION - Use scientific names of plan	its.					
	Absolute	Dominant Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30 ft r)	% Cover	Species? Status	Number of Dominant Species			
1			That Are OBL, FAGW, or FAC: 2 (A)			
2			Total Number of Dominant			
3			Species Across All Strata: 2 (B)			
4			Percent of Dominant Species			
5		= Total Cover	That Are OBL, FACW, or FAC: 100 (A/B)			
Sapling/Shrub Stratum (Plot size 15 ft r)		- Total Cover	Prevalence Index worksheet:			
1			Total % Cover of: Multiply by:			
2			OBL species 30 x 1 = 30			
3.			FACW species 70 x 2 = 140			
4,			FAC species 0 x 3 = 0			
5			FACU species $0 \times 4 = 0$			
Herb Stratum (Plot size: 5 ft r)		= Total Cover	UPL species 0 x 5 = 0			
1 Phalaris arundinacea	70	✓ FACW	Column Totals: 100 (A) 170 (B)			
2 Scirpus atrovirens	30	✓ OBL	Prevalence Index = B/A = 1.7			
3			Hydrophytic Vegetation Indicators:			
4.			✓ 1 - Rapid Test for Hydrophytic Vegetation			
5			✓ 2 - Dominance Test is >50%			
6			✓ 3 - Prevalence Index is ≤3.0 ¹			
7			4 - Morphological Adaptations (Provide supporting			
8			data in Remarks or on a separate sheet)			
9,			Problematic Hydrophytic Vegetation¹ (Explain)			
10			¹ Indicators of hydric soil and wetland hydrology must			
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Total Cover	be present, unless disturbed or problematic.			
1			Hydrophytic			
			Vegetation			
2			Present? Yes No			

SOIL Sampling Point: WB-05 Wet

(inches) Color (moist) % Color (moist) % Type Loc Texture Remarks 0 - 24 10YR 2/1 80 10YR 3/4 20 C M Silty clay Type. C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Indicators for Problematic Hydric Solis*: **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Indicators for Problematic Hydric Solis*: **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Indicators for Problematic Hydric Solis*: **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Indicators for Problematic Hydric Solis*: **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS+Masked Sand Grains.	Depth	Matrix			dox Feature			210	- Var. 4:
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Cocation: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains. **Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Dark Surface (R5) Dark Surface, Single Matrix (R5) Dark Surface (R5) Dark Surface (R5) Loarny Micky Mineral (F1) Very Shallow Dark Surface (F12) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Below Dark Surface (A11) Sand Mucky Mineral (S1) Sem Mucky Peat or Peat (S3) Redox Depressions (F8) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Problematic New York Control of Problematic New York Control		Color (moist)	%_	Color (moist)		Type1	Loc ²	Texture	Remarks
Histosol (A1)	0 - 24	10YR 2/1	80	10YR 3/4	20	С	M	Silty clay	
Mydric Soil Indicators:	-								
Mydric Soil Indicators:	-								
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16)							-		
Mydric Soil Indicators:	_	-	-	-		_			
Mydric Soil Indicators:	_	-		-			_		
Histosol (A1)									
Histosol (A1)									
Histosol (A1) Histoc Epipedon (A2) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Depleted Dark Surface (F7) Redox Depressions (F8) Histocome (F7) Redox Depressions (F8) Histocome (F7) Redox Depressions (F8) Histocome (F7) Redox Depressions (F8) Hydric Soil Present? Yes No Depletedon (A10) No No No No No No No No No No No No No N	Type: C=C	oncentration, D=De	pletion, RI	M=Reduced Matrix, I	MS=Maske	d Sand G	rains.		
Histic Epipedon (A2) Black Histic (A3)	lydric Soil	Indicators:						Indicators for I	Problematic Hydric Soils ³ :
Black Histic (A3)	_ Histosol	(A1)		Sandy	Gleyed M	atrix (S4)		Coast Prair	ie Redox (A16)
Hydrogen Sulfide (AA) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S3) Wetland Hydrology Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Wetland Hydrology Indicators (Minimum of hydrology must be present, unless disturbed or problematic. Wetland Hydrology Indicators: Wetland Hydrology Indicators: Hydric Soil Present? Yes No No No No No No No No No No No No No									
Stratified Layers (A5)		And the second of the second o							
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sem Mucky Peat or Peat (S3) Pestrictive Layer (if observed): Type: Depth (inches): Temarks: Proper								Other (Expl	ain in Remarks)
Thick Dark Surface (A12) Depleted Dark Surface (F7)			ce (A11)						
Sandy Mucky Mineral (S1)			~ (A) ())	3Indicators of h	vdrophytic vegetation and
Secondary Indicators (minimum of two required: Surface Water (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Present (B4) Drift Deposits (B3) Present (B4) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Present (B4) Drift Deposits (B4) Drift Deposits (B4) Drift Deposits (B5)						The state of the s			
Type:			33)		v 710				
Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Water (A1) Water-Stained Leaves (B9) Surface Water (A1) Surface Water (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Selided Observations: Surface Water Present? Ves No Depth (inches): Sulface Coril Present? Yes No Depth (inches): Sulface Coril Present? Yes No Depth (inches): Sulface Coril Present? Yes No Depth (inches): Sulface Coril Present? Yes No Depth (inches): Sulface Coril Present? Yes No Depth (inches): Sulface Coril Present? Yes No Depth (inches): Sulface Coril Present? Yes No Present Protos, previous inspections, if available:	Restrictive I	Layer (if observed):						
Pyprology Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Sediment Deposits (B1) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Ino Deposits (B5) In Muck Surface (C7) In Indiation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) No Depth (inches): Water Algal Present? Present? Ves No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Indicators: Secondary Indicators (minimum of two required two required to prevent the condary includes capillary fringe) Secondary Indicators (minimum of two required to prevent the condary includes capillary fringe) Secondary Indicators (minimum of two required to prevent the condary includes capillary fringe) Secondary Indicators (minimum of two required to prevent the condary includes capillary fringe) Secondary Indicators (minimum of two required to prevent the condary includes capillary fringe) Secondary Indicators (minimum of two required to prevent (B1) Secondary Indicators (minimum of two required to prevent (B1) Secondary Indicators (minimum of two required to prain the condary Indicators (minimum of two required to prevent (B1) Secondary Indicators (minimum of two required to prevent (B1) Secondary Indicators (minimum of two required to prevent (B1) Secondary Indicators (minimum of two required to prevent (B10) Secondary Indicators (minimum of two required to prevent (B10) Secondary Indicators (minimum of two required to prevent (B10) Secondary Indicators (minimum of two required to prevent (B10) Secondary Indicators (B10) Secondary Indicators (minimum of two required to prevent (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary	Type:							11.00 2 11 2 11	v. ±2 ±
PyDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Presence of Reduced Iron (C4) Drift Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Secondary Indicators (minimum of two required to predict the properties) Secondary Indicators (minimum of two required to predict the properties) Secondary Indicators (minimum of two required to predict the properties) Surface Soil Cracks (B6) Drainage Patterns (B10) Dr	21								
Secondary Indicators (minimum of two required: check all that apply) Surface Water (A1)	Depth (in	ches)::						Hydric Soil Pres	sent? Yes No
Surface Water (A1)	Depth (inc Remarks:							Hydric Soil Pres	sent? Yes No
High Water Table (A2)	Depth (inc Remarks:	GY						Hydric Soil Pres	sent? YesNo
Saturation (A3)	Depth (inc Remarks: YDROLO Vetland Hyd	GY drology Indicators		uired; check all that	apply)				
Water Marks (B1)	Depth (inc Remarks: YDROLO Vetland Hyd	GY drology Indicators cators (minimum of				ves (B9)		Secondary In	dicators (minimum of two required
	Depth (inc Remarks: YDROLO Vetland Hydrimary India Surface	GY drology Indicators cators (minimum of Water (A1)		Water-S	tained Lea			Secondary In Surface	dicators (minimum of two required
Drift Deposits (B3)	Depth (inc Remarks: YDROLO Vetland Hyd Primary Indic Surface High Wa	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Water-S Aquatic	tained Lea Fauna (B1:	3)		Secondary In Surface Drainage	dicators (minimum of two required Soil Cracks (B6) Patterns (B10)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available:	Primary Indic Surface High Wa	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Water-S Aquatic True Aq	tained Lea Fauna (B1) uatic Plants	3) s (B14)		Secondary In Surface Drainage Dry-Sea	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Welf Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Primary Indic Surface High Wa Water M	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1)		Water-S Aquatic True Aq Hydroge	tained Lea Fauna (B1) uatic Plants in Sulfide C	3) s (B14) odor (C1)	ving Roots	Secondary In Surface Drainage Dry-Seat Crayfish	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Inundation Visible on Aerial Imagery (B7) Gauge or Welf Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present?	Primary Indices Surface High Water Manuel Sedimen	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		Water-S Aquatic True Aq Hydroge Oxidized	tained Lea Fauna (B1; uatic Plants in Sulfide C I Rhizosph	3) s (B14) Odor (C1) eres on Li	The second second	Secondary In Surface Drainage Dry-Seas Crayfish (C3) Saturatio	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Second Concave Surface (B8) Other (Explain in Remarks)	Pimary Indices Saturation Water Manual Sedimer Drift Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3)		Water-S Aquatic True Aq Hydroge Oxidized	tained Lea Fauna (B1; uatic Plants in Sulfide C I Rhizosph e of Reduc	3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Secondary In Surface Drainage Dry-Seas Crayfish (C3) Saturatio Stunted	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Field Observations: Surface Water Present? Yes No Depth (inches): Nater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Simple Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary India Surface High Water M Sedimer Drift Det Algal Ma	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4)		Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I	tained Leav Fauna (B1: uatic Plants in Sulfide C I Rhizosphi e of Reduction Reduction ck Surface	3) s (B14) odor (C1) eres on Lived Iron (C tion in Tille (C7)	4)	Secondary In Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted G	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Surface Water Present? Yes No Depth (inches):	Primary Indic Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial	one is reg	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu	tained Leav Fauna (B1) uatic Plants in Sulfide C I Rhizosphi e of Reduct ron Reduct ck Surface or Well Data	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary In Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted G	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Nater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available:	Primary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegelated Concav	one is reg	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu	tained Leav Fauna (B1) uatic Plants in Sulfide C I Rhizosphi e of Reduct ron Reduct ck Surface or Well Data	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary In Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted G	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes N	Primary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concavivations:	one is req Imagery (ve Surface	Water-S Aquatic True Aqi Hydroge Oxidized Presence Recent I Thin Mu (B7) Gauge of	tained Leav Fauna (B1; uatic Plants in Sulfide C I Rhizosphi e of Reduct ron Reduct ck Surface or Well Data explain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary In Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted G	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Pepth (inc Remarks: YDROLO Vetland Hyde Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obsertace Water Water M Sedimer Drift Dep Algal Ma Iron Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegelated Concav vations: er Present?	Imagery (ve Surface	Water-S Aquatic True Aqi Hydroge Oxidized Presenc Recent I Thin Mu B7) Gauge of (B8) Other (E	tained Leav Fauna (B1: uatic Plants in Sulfide C I Rhizosphi e of Reduct ron Reduct ck Surface or Well Data xplain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary In Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted G	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
	Depth (ind Remarks: YDROLO Netland Hyde Primary Indice High Wa Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obsert Surface Water Nater Table	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present?	Imagery (ve Surface	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of (B8) Other (E	tained Leaver Fauna (B1; uatic Plants on Sulfide Control Reduction	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Secondary In Surface Drainage Dry-Sea: Crayfish (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Remarks:	Primary India Surface High Water M Sedimer Drift Det Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water Water Table Saturation Princludes cap	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegelated Concav vations: er Present? Present? resent?	Imagery (ve Surface Yes Yes	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of (B8) Other (E	tained Leav Fauna (B1; uatic Plants in Sulfide C Reduct or Reduct cor Reduct cor Well Data xplain in R inches); inches); inches); inches); inches); inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) ernarks)	4) ed Soils (C	Secondary In Surface Drainage Dry-Seas Crayfish (C3) Saturatio Stunted FAC-Net	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
AGHIGINO.	Primary India Surface High Water M Sedimer Drift Det Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water Water Table Saturation Princludes cap	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegelated Concav vations: er Present? Present? resent?	Imagery (ve Surface Yes Yes	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of (B8) Other (E	tained Leav Fauna (B1; uatic Plants in Sulfide C Reduct or Reduct cor Reduct cor Well Data xplain in R inches); inches); inches); inches); inches); inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) ernarks)	4) ed Soils (C	Secondary In Surface Drainage Dry-Seas Crayfish (C3) Saturatio Stunted FAC-Net	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
	Primary Indices Saturation Primary Indices High Water M Sedimer Drift Dep Inundation Sparsely Field Obsert Surface Water Table Saturation Saturation Sparsely Field Obsert Surface Water Table Saturation Sparsely Field Res	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegelated Concav vations: er Present? Present? resent?	Imagery (ve Surface Yes Yes	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of (B8) Other (E	tained Leav Fauna (B1; uatic Plants in Sulfide C Reduct or Reduct cor Reduct cor Well Data xplain in R inches); inches); inches); inches); inches); inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) ernarks)	4) ed Soils (C	Secondary In Surface Drainage Dry-Seas Crayfish (C3) Saturatio Stunted FAC-Net	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Project/Site: Byron Solar				City/Co	ounty	Dodge		Sampling	Date: _	2020-	-10-29
Applicant/Owner: EDF Renewables	S						State: Minnesota	Sampling	Point:	WB-0	6 Up
Investigator(s): David Kuhlmann				Section	n, To	wnship, Ra	nge: Section 13, T10	6N, R16W			
Landform (hillslope, terrace, etc.): Flo							(concave, convex, none):	_			
Slope (%): 0 Lat: 43.992	249			Long:	-92	.687456		Datum: N	AD 83	3	
Soil Map Unit Name: Coland, frequently f	looded-Spill	ville, occasio	onally flooded	l comple	x, 0 to	2 percent sk	opes (1027A) NWI classific	ation: PEN	И1В		
Are climatic / hydrologic conditions on	the site typ	ical for this	s time of ye	ar? Ye	es_	No_	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or	Hydrology	y s	ignificantly	disturb	ed?	Are *	'Normal Circumstances"	present? Y	es_	_ N	00
Are Vegetation, Soil, or							eeded, explain any answe				
SUMMARY OF FINDINGS - A							ocations, transects	, importa	ant fe	ature	s, etc.
Hydrophytic Vegetation Present?			0			107 - 11 - Ye	.00				
Hydric Soil Present?			00			e Sampled			.,		
Wetland Hydrology Present?	Yes _	N	0		with	in a Wetlar	nd? Yes	No		4	
Remarks:											
Grazed pasture											
VEGETATION – Use scientific	names o	of plants.				- (
30 ft r			Absolute		11 12 12 1	Indicator	Dominance Test work	sheet:			
Tree Stratum (Plot size: 30 ft r			% Cover	Spec	ies?	Status	Number of Dominant S That Are OBL, FACW,		2		741
1 2			-	_	_		That Are OBL, FACV,	OFFAC. 2		_	(A)
3						=	Total Number of Domin Species Across All Stra		3		(B)
4.								_			(0)
5							Percent of Dominant Sp That Are OBL, FACW,		3 7		(A/B)
	5 ft r			= Tota	I Cov	/er					X
Sapling/Shrub Stratum (Plot size: 1							Prevalence Index wor		Multiple	ı bu-	
1				_	_	_	Total % Cover of: OBL species 40	x1		y Dy.	-
2				-			FACW species 0		= 0		-
3					_	_	FAC species 40		= 120		=
5					_		FACU species 20		= 80		
A				= Tota	l Cov	/er	UPL species 0		= 0		5
Herb Stratum (Plot size: 5 ft r			40				Column Totals: 100	(A)	240)	(B)
Poa pratensis			40		_	FAC		50. 2	1		
2 Scirpus atrovirens 3 Trifolium pratense			40 20		_	OBL FACU	Prevalence Index	10-10 PM 10-1			_
777			20	-		FACO	Hydrophytic Vegetation 1 - Rapid Test for I			ation	
4			_	-	_		2 - Dominance Tes	200000000000000000000000000000000000000	vege	auon	
5			-	-	_		✓ 3 - Prevalence Inde				
6			_	-	_	_	4 - Morphological A		(Prov	ide sun	nortina
7.				_	_	$\overline{}$	data in Remarks				
8				-	_		Problematic Hydro	phytic Vege	tation'	(Expla	in)
9,			_			_					
Woody Vine Stratum (Plot size: 30		10	100%	= Tota	l Cov	/er	¹ Indicators of hydric soi be present, unless distr	il and wetlar urbed or pro	nd hydi oblema	rology r tic.	nust
1							Hydrophytic				
2.							Hydrophytic Vegetation				
				= Tota	I Cov	/er	Present? Ye	s	No _	_	
Remarks: (Include photo numbers he	ere or on a	separate	sheet.)		2000		1				

SOIL Sampling Point: WB-06 Up

Depth Ma			dox Featur		5	21	67.40
(inches) Color (moi		Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0 - 24 10YR 2/1	98	10YR 3/4	2	<u>C</u>	M	Silt Loam	
-							
					_		
			_				
ype: C=Concentration, D	Depletion, RI	M=Reduced Matrix,	MS=Maske	d Sand G	ains.		=Pore Lining, M=Matrix.
ydric Soil Indicators:							Problematic Hydric Soils ³ :
_ Histosol (A1)			y Gleyed M				ie Redox (A16)
_ Histic Epipedon (A2)			y Redox (S			Dark Surfac	
_ Black Histic (A3)			oed Matrix (the same of the sa			nese Masses (F12) w Dark Surface (TF12)
Hydrogen Sulfide (A4)Stratified Layers (A5)			ny Mucky M ny Gleyed N			The second secon	ain in Remarks)
2 cm Muck (A10)			eted Matrix			Other (Expi	all III Remarks)
_ Depleted Below Dark S	urface (A11)		x Dark Sur				
Thick Dark Surface (A1			eted Dark S)	3Indicators of h	ydrophytic vegetation and
Sandy Mucky Mineral (x Depressi	The state of the s			Irology must be present,
5 cm Mucky Peat or Pe	at (S3)		7 2 7 2 2	2.27		unless distu	urbed or problematic
estrictive Layer (if obser	ved):						
Type:						Modela Call Dass	sent? Yes No
						Hydric Soil Pres	sentr res No
Depth (inches):							
Depth (inches):emarks:							
Depth (inches):emarks;	hore						
Depth (inches):emarks: /DROLOGY /etland Hydrology Indica		unicodu chook all that	apply)				
Depth (inches):emarks: /DROLOGY /etland Hydrology Indica				(50)		Secondary In	dicators (minimum of two require
Depth (inches):emarks: /DROLOGY /etland Hydrology Indication (minimum of the content of t		Water-5	Stained Lea			Secondary In Surface S	dicators (minimum of two require Soil Cracks (B6)
Depth (inches):emarks: /DROLOGY /etland Hydrology Indication of the common control of the common control of the common control of the common control of the common control of the common control of the common control of the common control of the common control of the common control of the common control of the common control of the common control of the common control of the		Water-S Aquatic	Stained Lea Fauna (B1	3)		Secondary In Surface S Drainage	dicators (minimum of two require Soil Cracks (B6) Patterns (B10)
Depth (inches):emarks: **DROLOGY** /*DROLOGY** /*Etland Hydrology Indication from the company Indicators (minimum of the company Indicators (A1)		Water-8 Aquatic True Ac	Stained Lea Fauna (B1 juatic Plant	3) s (B14)		Secondary In Surface S Drainage Dry-Seas	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Depth (inches):emarks: DROLOGY Vetland Hydrology Indication (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	n of one is req	Water-8 Aquatic True Ac Hydrogo	Stained Lea Fauna (B1 Juatic Plant en Sulfide (3) s (B14) Odor (C1)	ing Poots	Secondary In Surface S Drainage Dry-Seas Crayfish	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Depth (inches):emarks: /DROLOGY /etland Hydrology Indication (minimum of the content of t	n of one is req	Water-5 Aquatic True Ac Hydrogo Oxidize	Stained Lea Fauna (B1) Juatic Plants en Sulfide (d Rhizosph	3) s (B14) Odor (C1) eres on Liv	The second second	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indication from the control of the cont	n of one is req	Water-S Aquatic True Ac Hydrogo Oxidize Presence	Stained Lea Fauna (B1 juatic Plants en Sulfide (d Rhizosph ce of Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C	4)	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indication from the control of the con	n of one is req	Water-S Aquatic True Ac Hydroge Oxidize Presence Recent	Stained Lea Fauna (B1 juatic Plant: en Sulfide (d Rhizosph ce of Reduc Iron Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille	4)	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted C G Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches): temarks: //DROLOGY //etland Hydrology Indication of the inches in the in	n of one is req	Water-S Aquatic True Ac Hydroge Oxidize Presence Recent Thin Mo	Stained Lea Fauna (B1) quatic Plants en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted C G Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):emarks: //DROLOGY //etland Hydrology Indication (minimum of the second of the	n of one is req	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mu (B7) Gauge	Stained Lea Fauna (B1) quatic Plants en Sulfide (d d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dats	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted C G Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):	n of one is req	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mu (B7) Gauge	Stained Lea Fauna (B1) quatic Plants en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted C G Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
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Depth (inches):	n of one is req erial Imagery (ncave Surface	Water-S Aquatic True Ac Hydroge Oxidize Presenc Recent Thin Mc (B7) Gauge (B8) Other (B	Stained Lea Fauna (B1 quatic Plant: en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat: Explain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted C G Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):	n of one is requered in the second se	Water-S Aquatic True Ac Hydroge Oxidize Presenc Recent Thin Mu (B7) Gauge (B8) Other (B	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Date Explain in R (inches): (inches):	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4) d Soils (C	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted of Geomory FAC-Neu	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Popth (inches): Idemarks: YDROLOGY Vetland Hydrology Indicater (Manary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Codield Observations: Surface Water Present? Vater Table Present? Saturation Present? Includes capillary fringe)	erial Imagery (ncave Surface Yes Yes Yes	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mu (B7) Gauge (B8) Other (B	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Date Explain in R (inches): (inches): (inches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted (C3) Geomory FAC-Neu	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Proposits (B2) In Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Cofficient Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	erial Imagery (ncave Surface Yes Yes Yes ream gauge, r	Water-S Aquatic True Ac Hydroge Oxidize Presenc Recent Thin Mc (B7) Gauge (B8) Other (B	Stained Lea Fauna (B1) quatic Plant en Sulfide (d Rhizosph ce of Reduc lron Reduc uck Surface or Well Date Explain in R (inches): (inches): al photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) remarks)	4) ed Soils (C	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted (C3) Geomory FAC-Neu	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Popular (inches): Idemarks: Idemarks: Idemarks: Idemarks: Idemarks: Idemarks: Idemarks: Idemarks: Idemarks: Idemary Indicators (minimur of the content of the con	erial Imagery (ncave Surface Yes Yes Yes ream gauge, r	Water-S Aquatic True Ac Hydroge Oxidize Presenc Recent Thin Mc (B7) Gauge (B8) Other (B	Stained Lea Fauna (B1) quatic Plant en Sulfide (d Rhizosph ce of Reduc lron Reduc uck Surface or Well Date Explain in R (inches): (inches): al photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) remarks)	4) ed Soils (C	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted (C3) Geomory FAC-Neu	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Depth (inches):	erial Imagery (ncave Surface Yes Yes Yes ream gauge, r	Water-S Aquatic True Ac Hydroge Oxidize Presenc Recent Thin Mc (B7) Gauge (B8) Other (B	Stained Lea Fauna (B1) quatic Plant en Sulfide (d Rhizosph ce of Reduc lron Reduc uck Surface or Well Date Explain in R (inches): (inches): al photos, p	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) remarks)	4) ed Soils (C	Secondary In Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted (C3) Geomory FAC-Neu	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Applicant/Owner: EDF Renewables Investigator(s): David Kuhlmann							Min		A		
							State: VIIII	nesota Sam	pling Po	oint: WB	-06 Wet
Later and Marcon and Later				Section	n, To	wnship, Ra	nge: Section 13	, T106N, I	R16W		
Landform (hillslope, terrace, etc.): Floo							(concave, convex,				
Slope (%); 2 Lat: 43.992	509			Long:	-92	687489		Datu	m NA	D 83	
Soil Map Unit Name: Coland, frequently flo	oded-Spil	lville, od	casionally flooded	comple	ex, 0 to	2 percent sk			1111		
Are climatic / hydrologic conditions on the	e site ty	oical fo	r this time of ye	ar? Y	es	No	(If no, expla	ain in Remar	ks.)		
Are Vegetation, Soil, or I										s V	No
Are Vegetation, Soil, or I											
SUMMARY OF FINDINGS - A											res etc
	Yes_			Juin	Pinti	g point i	ocations, train	30003, 1111	portar	it icutu	103, 000
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes_	~	No		is th	e Sampled	Area				
Wetland Hydrology Present?			No		with	n a Wetlar	nd? Ye	s	No		
Remarks			- 000		7.00						
Grazed pasture, swale t	from	hiet	oric ovhov								
Grazeu pasture, swale i		ııısı	JIIC OXDO	/ /							
VEGETATION - Use scientific r	names	of pla	nts.								
			Absolute	Dom	inant	Indicator	Dominance Tes	t workshee	t		
Tree Stratum (Plot size: 30 ft r)		% Cover	Spec	cies?	Status	Number of Dom	inant Specie			
1,			~	_	_		That Are OBL, F	ACW, or FA	c: 2		(A)
2				_	_		Total Number of	Dominant			
3			_(-	_		Species Across	All Strata:	2		(B)
4				-	-	=	Percent of Domi	nant Species			
5,				-	100		That Are OBL, F	ACW, or FA	C: 10	00	(A/B)
Sapling/Shrub Stratum (Plot size 15	ft r) —	= Tota	al Cov	er	Prevalence Ind	ex workshe	et:		
1						£	Total % Cov	ver of:	M	ultiply by	
2							OBL species	30	x1=	30	
3							FACW species	70	x 2 =	140	_
4,							FAC species	0	х 3 =		
5				_	_		FACU species				
5 ft r				= Tota	al Cov	er	UPL species		x 5 =		
Herb Stratum (Plot size: 5 ft r 1 Phalaris arundinacea)		70		/	FACW	Column Totals:	100	(A)	170	(B)
2 Scirpus atrovirens			30	_	_	OBL	Prevalence	e Index = B/	A = 1.7	7	
3.							Hydrophytic Ve	A STATE OF THE PARTY			
4				-			✓ 1 - Rapid Te	집 보내는 걸다			1
5.				-			✓ 2 - Dominar	Action of the second			
6							✓ 3 - Prevaler	ice Index is :	≤3.0 ¹		
7.				-			4 - Morphole	ogical Adapt	ations (Provide s	supporting
8.								lemarks or o			
9,						1	Problematic	Hydrophytic	Vegeta	ation' (Ex	plain)
10.											
Woody Vine Stratum (Plot size: 30 f	ftr)	100%	= Tota	al Cov	er	¹ Indicators of hy be present, unle				y must
1							Hydrophytic				
2,							Vegetation	44	,		
				= Tota	al Cov	er	Present?	Yes		lo	-
Remarks: (Include photo numbers her	e or on a	sepai	ate sheet.)								

SOIL Sampling Point: WB-06 Wet

	Matrix			dox Featur		-		45.4
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0 - 24	10YR 2/1	75	10YR 3/4	25	<u> C</u>	M	Silty clay loam	
		-	-		-	-		
		-	-		_			
		-	,i					
Type: C=Co	oncentration, D=De	pletion, RN	M=Reduced Matrix,	MS=Maske	d Sand G	rains.		L=Pore Lining, M=Matrix.
lydric Soil I								Problematic Hydric Soils ³ :
_ Histosol	N			y Gleyed M				irie Redox (A16)
	ipedon (A2)			y Redox (S			Dark Surfa	
Black His	n Sulfide (A4)			oed Matrix (ny Mucky M				anese Masses (F12) low Dark Surface (TF12)
	Layers (A5)			y Gleyed N				plain in Remarks)
2 cm Mu				eted Matrix			_ 0 0.0. (2.0)	
	Below Dark Surface	ce (A11)		x Dark Sur				
	rk Surface (A12)			eted Dark S	The state of the s)		hydrophytic vegetation and
	ucky Mineral (S1)	20	Redo	x Depressi	ons (F8)			drology must be present,
	cky Peat or Peat (S ayer (if observed)						unless dis	turbed or problematic.
	ayer (ii observed)							
IMDO.							Hydric Soil Pre	esent? Yes No
Type: Depth (inc Remarks:	ches)::		_				Tiyunc gon Ti	ssent? TesNO
Depth (inc							Tiyunc Surric	sentr resNO
Depth (inc							Tiyunc gon Ti	SERIE TES NO
Depth (inc Remarks: YDROLOG Wetland Hyd	GY frology Indicators		uired; check all that	apply)				Indicators (minimum of two require
Depth (inc Remarks: YDROLOG Wetland Hyd	GY frology Indicators			apply)	ves (B9)		Secondary	
Depth (inc Remarks: YDROLOG Wetland Hyd Primary Indic Surface \	GY frology Indicators ators (minimum of		Water-S		4.00		Secondary	Indicators (minimum of two require
Depth (inc Remarks: YDROLOG Wetland Hyd Primary Indic Surface \	GY frology Indicators ators (minimum of Water (A1) ter Table (A2)		Water-s	Stained Lea	3)		Secondary Surface Drainag	Indicators (minimum of two require Soil Cracks (B6)
Depth (inc Remarks: YDROLOG Netland Hyd Primary Indic Surface \ High Wat	GY frology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3)		Water-8 Aquatic True Ad	Stained Lea Fauna (B1	3) s (B14)		Secondary Surface Drainag Dry-Sea Crayfis	Indicators (minimum of two require Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) Burrows (C8)
Primary Indic Surface \ High Wat Saturatio Water Ma Sedimen	GY Irology Indicators ators (minimum of all Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)		Water-8 Aquatic True Ac Hydrogo Oxidize	Stained Lea Fauna (B1. Juatic Plant: en Sulfide (d Rhizosph	3) s (B14) Odor (C1) eres on Li		Secondary Surface Drainag Dry-Sea Crayfisl	Indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9)
Primary Indic Surface \ High Water Ma Sedimen Drift Dep	GY frology Indicators ators (minimum of a Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3)		Water-8 Aquatic True Ac Hydrog Oxidize Presence	Stained Lea Fauna (B1 juatic Plants en Sulfide (d Rhizosph ce of Reduc	3) s (B14) Odor (C1) eres on Li ed Iron (C	4)	Secondary Surface Drainag Dry-Sea Crayfisl s (C3) Saturat Stunted	Indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) for Stressed Plants (D1)
Primary Indic. Surface N High Water Ma Saturatio Water Ma Sedimen Drift Dep Algal Mai	GY frology Indicators ators (minimum of a Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4)		Water-8 Aquatic True Ac Hydrog Oxidize Present	Stained Lea Fauna (B1 juatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc	3) s (B14) Odor (C1) eres on Li ed Iron (C	4)	Secondary Surface Drainag Dry-Sea Crayfisl (C3) Saturat Stunted	indicators (minimum of two require s Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Primary Indic. Surface \ High Water Ma Sediment Drift Dep Algal Mai	GY frology Indicators ators (minimum of a company) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	one is requ	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mo	Stained Lea Fauna (B1) quatic Plants en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) Odor (C1) eres on Li red Iron (C tion in Tille (C7)	4)	Secondary Surface Drainag Dry-Sea Crayfisl (C3) Saturat Stunted	Indicators (minimum of two require Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) for Stressed Plants (D1)
Primary Indication Surface Note High Water May Sedimen Drift Dep Algal May Iron Depo	frology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) osits (B5) on Visible on Aerial	one is requ	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mc	Stained Lea Fauna (B1) quatic Plants en Sulfide (d d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dats	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Drainag Dry-Sea Crayfisl (C3) Saturat Stunted	indicators (minimum of two require s Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Primary Indication Surface Note High Water May Sediment Drift Dep Algal May Iron Depote Inundation Sparsely	GY Irology Indicators ators (minimum of all Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav	one is requ	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mc	Stained Lea Fauna (B1) quatic Plants en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Drainag Dry-Sea Crayfisl (C3) Saturat Stunted	indicators (minimum of two require s Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Primary Indic. Surface \\ High Water Ma Sedimen Drift Dep Algal Mai Iron Depi Inundation Sparsely Field Observ	GY Irology Indicators ators (minimum of ators (minimum of ators (M	one is requ Imagery (I	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mc B7) Gauge (B8) Other (B	Stained Lea Fauna (B1) quatic Plant- en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat- Explain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Drainag Dry-Sea Crayfisl (C3) Saturat Stunted	indicators (minimum of two require s Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Primary Indic. Surface Naturatio Water May Saturatio Water May Sediment Drift Dep Algal May Iron Depo Inundatio Sparsely Field Observ Surface Water	GY Irology Indicators ators (minimum of a start (M1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concavirations: er Present?	Imagery (I	Water-S Aquatic True Ac Hydrog Oxidize Presenc Recent Thin Mc B7) Gauge (B8) Other (I	Stained Lea Fauna (B1) quatic Plants en Sulfide (d d Rhizosph ce of Reduct Iron Reduct uck Surface or Well Data Explain in R	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Drainag Dry-Sea Crayfisl (C3) Saturat Stunted	indicators (minimum of two require s Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Depth (incorrection) Primary Indicorrection Wetland Hyde Primary Indicorrection Surface Naturation Water May Sediment Drift Dept Algal May Iron Dept Inundation Sparsely Field Observ Surface Water Nater Table Incorrection Saturation Primary Sediment Sparsely Field Observ Surface Water Nater Table Incorrection Saturation Primary Sediment Sedim	GY Irology Indicators ators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) of Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concavitations: er Present? Present?	one is requ Imagery (I	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mc B7) Gauge (B8) Other (B	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron Reduct ick Surface or Well Dats Explain in R (inches): (inches):	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Secondary Surface Drainag Dry-See Crayfist (C3) Saturat Stunted Geomo	indicators (minimum of two require s Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Primary Indic. Surface Naturation Water May Sediment Drift Dep Algal May Inon Depo Inundation Sparsely Field Observ Surface Water Table Includes cap	GY Irology Indicators ators (minimum of a start (M1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) of or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concaverations: ar Present? Present?	Imagery (I e Surface es es es es es	Water-8	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Surface Drainag Dry-See Crayfisl Stunted Stunted FAC-Nee	indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Primary Indic. Surface Naturation Water May Sediment Drift Dep Algal May Inon Depo Inundation Sparsely Field Observ Surface Water Table Includes cap	GY Irology Indicators ators (minimum of a start (M1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) of or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concaverations: ar Present? Present?	Imagery (I e Surface es es es es es	Water-S Aquatic True Ac Hydroge Oxidize Present Recent Thin Mc B7) Gauge (B8) Other (B No Depth No Depth No Depth	Stained Lea Fauna (B1) quatic Plants en Sulfide C d Rhizosph ce of Reduct Iron	3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Secondary Surface Drainag Dry-See Crayfisl Stunted Stunted FAC-Nee	indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)

Applicant/Owner; EDF Renewables State: Minnesota Sampling Point, WB-07 Up. Investigator(p): David Kuhlmann Section, Township, Range Section 12, T106N, R16W Local relate (concave, convex, none): Concave Slope (%): 2-5	Project/Site: Byron Solar			City/Coun	ty: Dodge		Sampling Date: 2	2020-10-29
Landform (hillslope, terrace, etc.): Upland, Swale Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 No	Applicant/Owner: EDF Renewable	s				State: Minnesota		
Landform (hillslope, terrace, etc.): Upland, Swale Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 Long92.689329 No				Section, 1	Township, Ra			
Slope (%) 2-5		land, Swale						
Soil Map Unit Name. Colaind, frequently fooded-Spillwille, occasionally flooded complex, 01o 2 percent slopes (1027A) NWI classification. None Are climate: hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology naturally problemate? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No to the hydrophytic Vegetation of the state of the sampled Area within a Wetland Pytrotypoty Present? Yes No to the sampled Area within a Wetland? Yes No Ves No to the sampled Area within a Wetland? Yes								
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No							ation: None	
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problemate? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attack site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Sales Areas All Strate: 2 (B) Prevalence Index worksheet: Total No Cover of Multiply by: Description Hydrology Presents of Dominant Species Sales No. X = 10 (A) FACW species Sales	Are climatic / hydrologic conditions on	the site typical t	for this time of year	ar? Yes	✓ No	(If no, explain in R	emarks.)	
Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Wetland Hydrology must be present unless disturbed or problematic. Hydrology in the present of hydrology must be present unless disturbed or problematic.								No
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?								
Seeding Stratum (Plot size 15 ftr 1 1 14 15 15 15 16 16 16 16 16								atures, etc.
Wetland Hydrology Present? Yes	Hydrophytic Vegetation Present?	Yes	No V			1.40		
Remarks: Upland swale with vegetation dominated by FAC and FACU vegetation that converges with downslope wetland swale dominated by reed canary grass VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft r)	[4] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]			Is	the Sampled			
Upland swale with vegetation dominated by FAC and FACU vegetation that converges with downslope wetland swale dominated by reed canary grass VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft r)		Yes	_ No_V	wi	thin a Wetlar	nd? Yes	No	4
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ftr)	1041030041							
Absolute	_		by FAC and FA	CU vec	etation tha	at converges with do	ownslope wetla	nd swale
Number of Dominant Species That Are OBL, FACW, or FAC 1	VEGETATION – Use scientific	names of pla	ants.					
That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) Prevalence Index worksheet: Total % Cover of Multiply by. OBL species 0 x1 = 0 FACW species 5 x2 = 10 FAC species 40 x3 = 120 FAC species 40 x4 = 160 UPL species 40 x4 = 160 UPL species 0 x5 = 0 Column Totals: 85 (A) 290 (B) Prevalence Index = B/A = 3.4 Hydrophyllum virginianum A0 FACU Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominant Species 5 (A) 290 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominant Species 5 (A) 290 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominant Species 5 (A) 290 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominant Species 5 (A) 290 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present; vegetation or problematic.	30 ft r		200000000000000000000000000000000000000			Dominance Test work	sheet:	
2.			% Cover	Species	? Status			ZAV
3.				_		That Are OBL, FAGW,	or FAC:	(A)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)					_			(B)
Sabing/Shrub Stratum (Plot size_ 15 ft r)								(0)
Prevalence Index worksheet: Total % Cover of:	5							(A/B)
Total % Cover of:	a de la companya del companya de la companya del companya de la co	15 ft r		= Total C	over			- 0.00
2.			_ 1					by:
3.				-				by.
4.								
FACU species 40 x 4 = 160 UPL species 0 x 5 = 0 Column Totals: 85 (A) 290 (B) Phleum pratense 40 FACU Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 7 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 9 - Problematic Hydrophytic Vegetation¹ 10 - Woody Vine Stratum (Plot size: 30 ft r) 1 - Hydrophytic Vegetation 85% = Total Cover Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 - Hydrophytic Vegetation 1 - Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic 1 - Rapid Test for Hydrophytic 1 - Rapid Test for Hydrophytic 1 - Rapid Test for Hydrophytic 1 - Rapid						1000 -00 -0710 -000		
Herb Stratum (Plot size: 5 ft r) 1. Hydrophyllum virginianum 40	5.					L. You're about the first the comment		
Hydrophyllum virginianum				= Total C	over	UPL species 0		
2. Phleum pratense 3. Sedge sp 5 FACW Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 9. Problematic Hydrophytic Vegetation¹ 10. Problematic Hydrophytic Vegetation¹ (Explain) 11. Hydrophytic 2 - Hydrophytic 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 - Hydrophytic 1 - Hydrophytic 4 - Morphytic Vegetation¹ (Explain) 1 - Hydrophytic 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 4 - Morphytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 4 - Morphytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 4 - Morphytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 4 - Morphytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 4 - Morphytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = B/A = 3.4 4 - Morphytic Vegeta	Herb Stratum (Plot size: 5 Tt r)	40	/	FAC	Column Totals: 85	(A) <u>290</u>	(B)
3. Sedge sp 4	50					Prevalence Index	= R/A = 3.4	
4	(a)					THE STREET STREET, STR	F-8-4-12-1	
5	7/2							ition
6								
7						3 - Prevalence Inde	ex is ≤3.0 ¹	
8	(1)							
9								
10						Problematic Hydro	phytic Vegetation'	(Explain)
Woody Vine Stratum (Plot size: 30 ft r) be present, unless disturbed or problematic. 1						1		According
2	Woody Vine Stratum (Plot size: 30	ftr	85%	= Total C	over			
Present? Yes No				-		Hydrophytic		
Present res NO	2,						e No	
= Total Cover Remarks: (Include photo numbers here or on a separate sheet.)				= Total C	over	Present 10	NO	

SOIL Sampling Point: WB-07 Up A

0 - 30	0 - 30 10YR 2/1			ox Featur				
30 - 40 10YR 2/1 90 10YR 3/4 10 C M Sally clay lown Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: D=Deption, RM=Reduced Matrix, MS=Masked Sand Grains. Type: D=Deption, RM=Reduced Matrix, MS=Masked Sand Grains. Type: D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: D=Depletion, RM=Reduced Reduced First (E1) Type: D=Depletion, RM=Reduced Reduced First (E1) Type: D=Depletion, RM=Reduced Reduced First (E1) Type: D=Depletion, RM=Reduced Reduced First (E1) Type: D=Depletion, RM=Reduced First (E1) Type: D=Depletion, R		-	Color (moist)	%	Type ¹	Loc		Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Typeric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Black Histic (A3) Black Histic (A3) Stripped Matrix (S5) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Loamy Mucky Marra (F2) Depleted Black Dark Surface (F12) Trinck Dark Surface (A11) Pepleted Black Matrix (F3) Thick Dark Surface (A11) Redox Dark Surface (F5) Trinck Dark Surface (A12) Sandy Mucky Mineral (S1) To Bepleted Black Matrix (F3) Thick Dark Surface (A12) Some Mucky Peat or Peat (S3) Sandy Mucky Mineral (S1) Trype: Depletic Glack Matrix (F3) Depletic Black Histic (A3) Trype: Depletic Glack Matrix (F3) Seatificative Layer (if observed): Type: Depth (inches): B horizon could not be reached, A12 assumed Secondary Indicators (minimum of two require Saturace (F3) Saturation (A3) True Aquatic Plants (B14) Play Mater Table (A2) Aquatic Plants (B14) Nordicators (Matrix (B1) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Presence of Reduced for (C4) Reduced for (C4) Reduced for (C4) Surface (C5) This Muck Surface (C7) Saturation (A3) Presence of Reduced for (C4) Reduced for (C4) Surface (B1) Sediment Deposits (B3) Drift Deposits (B3) Presence of Reduced from (C4) Regent for Redox (B4) Recent from Reduction in Tilled Solts (C6) Sediment Deposits (B3) Drift Deposits (B3			1	-	-	_	Siit Loam	
Histosol (A1)	30 - 40 10YR 2/1	90	10YR 3/4	10	<u>C</u>	M	Silty clay loam	
Histosol (A1)		_		-	-			
Marice Soil Indicators:			-				-	
Marice Soil Indicators:				-		_		
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Revox (A16)			-	-	-			
Histosol (A1)	Type: C=Concentration D=I	Depletion PA	A=Reduced Matrix N	IS=Macks	d Sand Gr	- ains	21 ocation: DI	=Pore Lining M=Matrix
Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S9) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loarny Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Matrix (F2) Depleted Matrix (F2) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron Mucky Mineral (S1) Some Mucky Peat or Peat (S3) Setrictive Layer (if observed): Type: Depth (inches): Bhorizon could not be reached, A12 assumed YPROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two requires one of the primary indicators (minimum of two requires one of the primary indicators (Malay indicators		pepienon, rin	Treduced Mattis, N	io-masic	u ound on	amo.		
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Hydrogen Sulfade (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Metrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Z nick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Semantic Surface (A12) Sandy Mucky Mineral (S1) Semantic Surface (A12) Semantic Surface Surface (A12) Semantic Surface (A12) Semantic Surface (A12) Semantic Surface (A12) Surface Surface (A12) Semantic Surface (A12) Secondary Indicators (Intinum of two requires form surface (A12) Secondary Indicators (Intinum of two requires form surface (A12) Secondary Indicators (Intinum of two requires form surface (A12) Secondary Indicators (Intinum of two requires form surface (A12) Secondary Indicators (Intinum of two requires form surface (A12) Secondary Ind	Histic Epipedon (A2)		Sandy	Redox (S	5)			
Stratified Layers (A5)					be a few and the same of the s			
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Depleted Below Dark Surface (A11)							Other (Expl	ain in Remarks)
Thick Dark Surface (A12) Depleted Dark Surface (F7)		face (A11)						
Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:)	3Indicators of h	ydrophytic vegetation and
Restrictive Layer (if observed): Type:					The state of the s			
Type:	_ 5 cm Mucky Peat or Peat	(S3)					unless distu	urbed or problematic
Depth (inches):	Restrictive Layer (if observe	ed):						
PARTICIPATION COULD NOT be reached, A12 assumed **POROLOGY** Vetland Hydrology Indicators: **Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Phydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Algal Mat or Crust (B4) In Deposits (B5) In undation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Vater (B4) Presente of Reduced Iron (C4) Source C7) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Vater Present? Ves No Depth (inches): Surface Vater (A12) Water (A12) Water (A12) Secondary Indicators (minimum of two requires (B14) Dry. Secondary Indicators (minimum of two requires (B10) Surface Water (A12) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Surface Water (A12) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (minimum of two requires (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10) Secondary Indicators (B10)	Туре:						Hudric Sail Bros	ont? Voc V No
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High Water Table (A2)		ors:						
Saturation (A3)	Vetland Hydrology Indicato		uired; check all that a	apply)			Secondary In	dicators (minimum of two require
Water Marks (B1)	Vetland Hydrology Indicator				ves (B9)			The Company of the Company
Sediment Deposits (B2)	Vetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1)		Water-St	ained Lea			Surface S	Soil Cracks (B6)
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Field Observations: Surface Water Present? Yes No Depth (inches): Nater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Simulation Present? Yes No Depth (inches): Security Depth (inches): Wetland Hydrology Present? Yes No Security Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Sample located 3 foot higher in elevation than wetland sample	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea Fauna (B1 latic Plant n Sulfide C Rhizosph e of Reduc on Reduc k Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7)	4)	Surface S Drainage Dry-Seas Crayfish S(C3) Saturation Stunted of Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Chic Position (D2)
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includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: sample located 3 foot higher in elevation than wetland sample	Netland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Sparsely Vegelated Conditional Control of Control (B4) Field Observations: Surface Water Present?	of one is required in the second of the seco	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex	ained Lea Fauna (B1) In Sulfide C Rhizosph e of Reduction Reduction ck Surface r Well Data xplain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface S Drainage Dry-Seas Crayfish S(C3) Saturation Stunted of Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Chic Position (D2)
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Certains.	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present? Cincludes capillary fringe) Describe Recorded Data (stre	of one is required in the second of the seco	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (E) No Depth (i) No Depth (i) No Depth (i)	ained Lea Fauna (B1) Inatic Plants In Sulfide (Carlon Reduce Ick Surface In Well Date Inches): Inches): I photos, p	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface S Drainage Dry-Seas Crayfish Stunted of Stunted of FAC-Neu	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2) utral Test (D5)
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Project/Site: Byron Solar			City/Cou	nty: Dodge		Sampling Date:	2020-10-29
Applicant/Owner: EDF Renewables					State: Minnesota		WB-07 Up B
Investigator(s): David Kuhlmann			Section,	Township, Ra	nge: Section 13, T106	6N, R16W	
Landform (hillslope, terrace, etc.): Floodplain					(concave, convex, none):	_	
Slope (%): 0 Lat: 43.9930115			Long: _	92.6888302	2	Datum: NAD 8	3
Soil Map Unit Name: Coland, frequently flooded-S	pillville, occa	sionally flooded	complex,	0 to 2 percent sk	opes (1027A) NWI classific	ation: PEM1B	
Are climatic / hydrologic conditions on the site	typical for t	his time of yea	ar? Yes	No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrole	ogy	significantly	disturbed	d? Are	Normal Circumstances" p	resent? Yes	No
Are Vegetation, Soil, or Hydrole	ogy	naturally pro	blematic	? (If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach	site ma	showing	sampl	ling point le	ocations, transects	, important fe	eatures, etc.
		No	144				
		No		the Sampled			
Wetland Hydrology Present? Yes		No	W	rithin a Wetlar	nd? Yes	No	- I
Remarks:							
Grazed pasture							
VEGETATION – Use scientific names	of plant	s.					
Tree Stratum (Plot size: 30 ft r		Absolute		ant Indicator	Dominance Test work	sheet:	
1. Plot size:		% Cover	Specie	s? Status	Number of Dominant S That Are OBL, FACW,		(A)
2							(A)
3.					Total Number of Domin Species Across All Stra		(B)
4.							
5					Percent of Dominant Sp That Are OBL, FACW,		(A/B)
15 ft r			= Total (Cover	Prevalence Index wor		- 0.00
Sapling/Shrub Stratum (Plot size 15 ft r					Total % Cover of:		lu bu:
1.						x 1 = 0	IV DV.
2. 3.			_	7	FACW species 40	x 2 = 80	
4,					FAC species 40	x 3 = 120	
5					FACU species 20	x 4 = 80	
9			= Total (Cover	UPL species 0	x 5 = 0	
Herb Stratum (Plot size: 5 ft r					Column Totals: 100	(A) 28	
Poa pratensis		40		FAC	1.00	20	
2. Sedge Sp		$-\frac{40}{20}$		FACU	Prevalence Index		_
3. Trifolium pratense			-	- FACO	Hydrophytic Vegetation 1 - Rapid Test for H		tation
4					2 - Dominance Tes		tation
5			-		3 - Prevalence Inde		
6			-		4 - Morphological A	The state of the s	vide supporting
7						s or on a separate	
8				_	Problematic Hydro	phytic Vegetation	(Explain)
9,							
Woody Vine Stratum (Plot size: 30 ft r	1.0	100%	= Total (Cover	¹ Indicators of hydric soi be present, unless distu		
1					Hydrophytic		
2.					Hydrophytic Vegetation		
			4000	22.5		s No	
			= Total (Cover	A CONTRACTOR OF THE CONTRACTOR		

Soil Sampling Point: WB-07 Up B

Depth	Matrix		11.63.002	Redox Featu			43,000	67.4
	Color (moist)	%	Color (mo		Type¹	Loc ²	Texture	Remarks
0 - 24 10	YR 2/1	80	10YR 3/4	20	_ <u>C</u>	М	Clay loam	
-								
-								
			-					
			-			_	-	
		-	-					
ype: C=Concen		letion, RN	N=Reduced Ma	ıtrix, MS=Mask	ed Sand Gr	ains.		PL=Pore Lining, M=Matrix.
ydric Soil Indica	ators:				2.00.02.0			r Problematic Hydric Soils ³ :
_ Histosol (A1)	(AD)			Sandy Gleyed N				sirie Redox (A16)
Histic Epipedo Black Histic (A				Sandy Redox (8 Stripped Matrix			Dark Surf	ace (57) ganese Masses (F12)
_ Hydrogen Sulf	2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			oamy Mucky N	the second secon			llow Dark Surface (TF12)
Stratified Lave				oamy Gleyed I				plain in Remarks)
2 cm Muck (A	and the second			Depleted Matrix	The second second second			,
	ow Dark Surfac	e (A11)		Redox Dark Su				
_ Thick Dark Su	urface (A12)		1	Depleted Dark S	Surface (F7)	3Indicators of	hydrophytic vegetation and
_ Sandy Mucky			F	Redox Depress	ions (F8)			ydrology must be present,
	Peat or Peat (S						unless dis	sturbed or problematic
lestrictive Layer	(if observed)							
Type:							Hydric Soil Pr	esent? Yes No
Depth (inches):	¢		_				Tiyana comm	esent? Tes No
Depth (inches): Remarks:	¢						Tiyani comm	esent? TesNo
Depth (inches): Remarks: YDROLOGY							TIVATIC CONT.	esent? Tes No
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog	gy Indicators:		uired; check all	that apply)				Indicators (minimum of two require
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators	gy Indicators:				aves (B9)		Secondary	Indicators (minimum of two require
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water	gy Indicators: s (minimum of c		Wa	ter-Stained Lea	4.0		Secondary Surface	Indicators (minimum of two require e Soil Cracks (B6)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta	gy Indicators: (minimum of c er (A1) able (A2)		Wa Aqu	ter-Stained Lea uatic Fauna (B	3)		Secondary Surface Draina	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3	gy Indicators: 6 (minimum of co er (A1) able (A2) 3)		Wa Aqu Tru	ter-Stained Lea	(3) ts (B14)		Secondary Surface Drainae Dry-Se	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (gy Indicators: 6 (minimum of co er (A1) able (A2) 3) (B1)		Wa Aqu Tru Hyd	ter-Stained Lea uatic Fauna (B¹ e Aquatic Plan drogen Sulfide	13) ts (B14) Odor (C1)	ving Roots	Secondary Surface Drainae Dry-Se Crayfis	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3	gy Indicators: 6 (minimum of co er (A1) able (A2) 3) (B1) posits (B2)		Wa Aqu Tru Hyo Oxi	ter-Stained Lea uatic Fauna (B¹ e Aquatic Plan drogen Sulfide	3) ts (B14) Odor (C1) neres on Liv		Secondary Surface Drainae Dry-Se Crayfis	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	gy Indicators: c (minimum of c er (A1) able (A2) 3) (B1) posits (B2)		Wa Aqu Tru Hyo Oxi Pre	ter-Stained Lea uatic Fauna (Br e Aquatic Plan drogen Sulfide dized Rhizosph	l3) ts (B14) Odor (C1) neres on Liv ced Iron (C	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	gy Indicators: s (minimum of c er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4)		Wa Aqu Tru Oxi Pre Rec	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizospl sence of Redu	ts (B14) Odor (C1) neres on Liv ced Iron (C	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stuntee	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	gy Indicators: s (minimum of c er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4)	one is requ	Wa Aqu Tru Hyo Oxi Pre Reu Thi	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph sence of Redu cent Iron Redu	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Cition in Tille E (C7)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stuntee	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	gy Indicators: s (minimum of cor (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5)	one is requ	Wa Aqu Tru Hyo Oxi Pre Rea Thi Ga	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph sence of Redu cent Iron Redu n Muck Surface	ts (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille e (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stuntee	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Print (inches): Proposition of the proposition of	gy Indicators: s (minimum of control (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) sible on Aerial elated Concavens:	magery (le Surface	Wa Aqu Tru Hyo Oxi Pre Rec Thi B7) Ga (B8) Oth	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph esence of Redu cent Iron Reduc in Muck Surface uge or Well Da ler (Explain in F	ts (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille e (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stuntee	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation	gy Indicators: s (minimum of control (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) sible on Aerial elated Concavens:	magery (le Surface	Wa Aqu Tru Hyo Oxi Pre Rea Thi Ga	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph esence of Redu cent Iron Reduc in Muck Surface uge or Well Da ler (Explain in F	ts (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille e (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stuntee	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Pepth (inches): Remarks: YDROLOGY Vetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation Surface Water Pre	gy Indicators: s (minimum of control of cont	Imagery (I e Surface	— Wa — Aqu — Tru — Hyo — Oxi — Pre — Reu — Thi B7) — Gan (B8) — Oth	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph esence of Redu cent Iron Reduc in Muck Surface uge or Well Da ler (Explain in F	ts (B14) Odor (C1) heres on Liv ced Iron (C ction in Tille e (C7) ta (D9) Remarks)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stuntee	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
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Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation Surface Water Presentation Presen	gy Indicators: s (minimum of cor (A1) able (A2) 3) (B1) posits (B2) c (B3) Crust (B4) (B5) sible on Aerial elated Concavi ns: essent? y ent? y fringe)	Imagery (I e Surface es es	Wa Aqu	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph sence of Redu- cent Iron Reduc n Muck Surface uge or Well Da ter (Explain in Fauth (inches): _ epth (inches): _ epth (inches): _ epth (inches): _	ts (B14) Odor (C1) heres on Liv ced Iron (C ction in Tille c (C7) ta (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis Stunted Geomo	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Pepth (inches): Remarks: YDROLOGY Netland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation Surface Water Present Nater Table Present includes capillary Describe Recorder	gy Indicators: s (minimum of control) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) sible on Aerial elated Concave ns: esent? y ent? y fringe) d Data (stream	Imagery (I e Surface es es i gauge, n	Wa Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph sence of Redu- cent Iron Reduc n Muck Surface uge or Well Da ter (Explain in Fauth (inches): _ epth (inches): _ epth (inches): _ epth (inches): _	ts (B14) Odor (C1) heres on Liv ced Iron (C ction in Tille c (C7) ta (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis Stunted Geomo	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation Surface Water Present includes capillary Describe Recorded ample located	gy Indicators: s (minimum of control) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) sible on Aerial elated Concave ns: esent? y ent? y fringe) d Data (stream	Imagery (I e Surface es es i gauge, n	Wa Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph sence of Redu- cent Iron Reduc n Muck Surface uge or Well Da ter (Explain in Fauth (inches): _ epth (inches): _ epth (inches): _ epth (inches): _	ts (B14) Odor (C1) heres on Liv ced Iron (C ction in Tille c (C7) ta (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis Stunted Geomo	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation Surface Water Presentation Presen	gy Indicators: s (minimum of control) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) sible on Aerial elated Concave ns: esent? y ent? y fringe) d Data (stream	Imagery (I e Surface es es i gauge, n	Wa Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu Aqu	ter-Stained Lea uatic Fauna (B' e Aquatic Plan drogen Sulfide dized Rhizosph sence of Redu- cent Iron Reduc n Muck Surface uge or Well Da ter (Explain in Fauth (inches): _ epth (inches): _ epth (inches): _ epth (inches): _	ts (B14) Odor (C1) heres on Liv ced Iron (C ction in Tille c (C7) ta (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis Stunted Geomo	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar				City/Co	unty:	Dodge		Sampling [Date: 2020	D-10-29
Applicant/Owner: EDF Renewables							State: Minnesota			07 Wet A
Investigator(s): David Kuhlmann				Section	, Tox	vnship, Ra	nge: Section 12, T10	6N, R16W		
Landform (hillslope, terrace, etc.): Swa							(concave, convex, none)	_		
Slope (%): 2 Lat. 43.996	3684			Long: _	-92.	689465°	1	Datum: N	AD 83	
Soil Map Unit Name: Coland, frequently fle	ooded-Spil	Iville, oc	casionally flooded	complex	, 0 to	2 percent sle	opes (1027A) NWI classific	cation: PEM	11B	
Are climatic / hydrologic conditions on the	ne site ty	pical fo	r this time of ye	ar? Yes	s	No_	(If no, explain in R	(emarks.)		
Are Vegetation, Soil, or	Hydrolog	у	significantly	disturbe	ed?	Are *	"Normal Circumstances"	present? Y	es	No
Are Vegetation, Soil, or	Hydrolog	у	naturally pro	blemati	c?	(If ne	eeded, explain any answe	ers in Remar	ks.)	
SUMMARY OF FINDINGS - A	ttach s	ite m	ap showing	samr	oline	point l	ocations, transects	. importa	nt featur	es. etc.
Hydrophytic Vegetation Present?	Yes	4000	No		37.579	2.01-752-55	a sumanay agus sans	3 1110 2111	reside elega	2083111
Hydric Soil Present?	Yes		No	1	s the	Sampled	I Area			
Wetland Hydrology Present?	_		No	- 2	withi	n a Wetlar	nd? Yes	No_		
Remarks:										
Wet Swale										
VEGETATION – Use scientific i	names	of pla	nts.							
20.64.			Absolute			Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30 ft r			% Cover	Speci	es?	Status	Number of Dominant S That Are OBL, FACW,		1	(A)
2							Total Number of Domin	annt		
3					_		Species Across All Stra			(B)
4					_		Percent of Dominant S	necies		
5				-	-		That Are OBL, FACW,		00	_ (A/B)
Sapling/Shrub Stratum (Plot size 15	5 ft r			= Total	Cov	er	Prevalence Index wor	ksheet:		
1			*				Total % Cover of:		Multiply by:	=="
2.							OBL species 0	x1=	0	
3							FACW species 100		200	_
4,					_		FAC species 5		= 15	_
5				_	_		FACU species 0		= 0	
Herb Stratum (Plot size: 5 ft r				= Total	Cov	er	UPL species 0	x 5 =		
sedge species			70	~		FACW	Column Totals: 105	(A)	215	(B)
2 Phalaris arundinacea			30	~		FACW	Prevalence Index	= B/A = 2	.0	
3. Hydrophyllum virginianum			5			FAC	Hydrophytic Vegetation	on Indicato	rs:	
4.							✓ 1 - Rapid Test for	Hydrophytic	Vegetation	
5.							✓ 2 - Dominance Tes	st is >50%		
6							✓ 3 - Prevalence Index	ex is ≤3.0 ¹		
7				-	_3		4 - Morphological /	Adaptations ¹	(Provide su	pporting
8							data in Remark			4
9,					_		Problematic Hydro	phytic Vege	tation (Exp	lain)
10				_			¹ Indicators of hydric so	il and wetlar	nd hydrology	milet
Woody Vine Stratum (Plot size: 30	ft r)	105%	= Total	Cov	er	be present, unless distr			riiust
1				· -	_		Hydrophytic			
2.				No. vo	_	_	Vegetation Present? Ye	s	No	
Remarks: (Include photo numbers he				= Total	Cov	er	10	7 ===		
Tremains. (meases prote numbers no	0,000	e sepai	ate sheet.)							

SOIL Sampling Point: WB-07 Wet A

(inches)	Matrix			ox Feature			21	47.40
	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
0 - 24 1	0YR 2/2	75	10YR 3/4	25	<u>C</u>	М	Sandy clay loam	
-								
-								
		_		-	_	_		
		-	+	-	-			
	THE STATE OF THE	0 -	. District 202 (0.70)	2 92		-		A CONTRACTOR OF THE PARTY OF TH
Type: C=Conc lydric Soil Ind		letion, RN	M=Reduced Matrix, M	S=Maske	d Sand Gr	rains.		L=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
A COLUMN TO SERVICE STATES			Condu	Claused M	ntin (CA)			[전기: 200 - 100 H.H. H. H. H. H. H. H. H. H. H. H. H. H
Histosol (A1) Histic Epipe	4			Redox (S	atrix (S4)		Dark Surfa	rie Redox (A16)
Black Histic				d Matrix (anese Masses (F12)
Hydrogen S	A 100 March 100				ineral (F1)			ow Dark Surface (TF12)
Stratified La			Loamy	Gleyed N	latrix (F2)		Other (Exp	olain in Remarks)
_ 2 cm Muck				ed Matrix				
	elow Dark Surfac	e (A11)		Dark Suri			5	and the feet and a second state of the second
	Surface (A12) ky Mineral (S1)			Depressi	urface (F7).		hydrophytic vegetation and drology must be present,
	y Peat or Peat (S	3)		Depressi) iis (i o)			turbed or problematic.
	yer (if observed)						1.17.7030	2-2-2-CH 1-4-5-3-41-
							10 V 10 V 10 V 10 V 10 V 10 V 10 V 10 V	
Type:							Hudric Sail Dro	analo Van Na
Depth (inche	es):						Hydric Soil Pre	sent? Yes V No
Depth (inche Remarks:							nyunc sun Pre	sent? YesNo
Depth (inche Remarks:							nyunc sun Pre	sent? YesNo
Depth (inche Remarks: YDROLOGY Vetland Hydro	Y ology Indicators:		uired; check all that a	pply)				
Depth (inche Remarks: YDROLOGY Vetland Hydro	Y ology Indicators: ors (minimum of c		uired: check all that a		ves (B9)		Secondary li	
Depth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicato Surface Wa	Y ology Indicators: ors (minimum of c			ained Lea			Secondary II	ndicators (minimum of two required
Depth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicato Surface Wa	Y ology Indicators: ors (minimum of cater (A1) Table (A2)		Water-Sta	ained Lea auna (B1)	3)		Secondary II Surface Drainag	ndicators (minimum of two required Soil Cracks (B6)
Primary Indicate Surface Water High Water Saturation (Water Mark	Y plogy Indicators: ors (minimum of cater (A1) r Table (A2) (A3) ks (B1)		Water-Sta Aquatic F True Aqua Hydrogen	ained Lea auna (B1) atic Plants Sulfide (3) s (B14) odor (C1)		Secondary II Surface Drainag Dry-Sea Crayfish	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8)
Popth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D	Y plogy Indicators: ors (minimum of cater (A1) Table (A2) (A3) (A3) Opposits (B2)		Water-Sta Aquatic F True Aqua Hydrogen Oxidized	ained Lea auna (B1) atic Plants Sulfide C Rhizosph	3) s (B14) Odor (C1) eres on Liv		Secondary II Surface Drainag Dry-Sea Crayfish (C3) Saturati	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9)
Depth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi	Y plogy Indicators: prs (minimum of cater (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5		Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence	ained Lea auna (B1) atic Plants Sulfide C Rhizosph of Reduc	3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Secondary II Surface Drainag Dry-Sea Crayfish (C3) Saturati	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or	Y plogy Indicators: prs (minimum of cater (A1) Table (A2) (A3) (xs (B1) Deposits (B2) pr Crust (B4)		Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In	ained Lea auna (B1: atic Plants Sulfide C Rhizosph of Reduc on Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille	4)	Secondary II Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2)
Pepth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat o Iron Deposi	y cology Indicators: ors (minimum of color (A1) Table (A2) (A3) (A3) (A5 (B1) Deposits (B2) (A5 (B3) Or Crust (B4) (A5 (B5)	one is requ	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In	ained Lea auna (B1) atic Plants Sulfide C Rhizosph of Reduc on Reduc k Surface	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7)	4)	Secondary II Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi	y cology Indicators: ors (minimum of colors) ater (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	one is requ	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Mucl	ained Lea auna (B1) atic Plants Sulfide C Rhizosph of Reduc on Reduc k Surface Well Data	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Secondary II Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2)
Depth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation V Sparsely Ve	Y plogy Indicators: prs (minimum of cater (A1) Table (A2) (A3) (S (B1) Deposits (B2) pr Crust (B4) its (B5) Visible on Aerial egelated Concave	one is requ	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Mucl	ained Lea auna (B1) atic Plants Sulfide C Rhizosph of Reduc on Reduc k Surface Well Data	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Secondary II Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2)
Pepth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation V Sparsely Veter Field Observati	Y plogy Indicators: prs (minimum of cater (A1) Table (A2) (A3) (S (B1) Deposits (B2) pits (B3) pr Crust (B4) pits (B5) Visible on Aerial egelated Concavitions:	magery (I	Water-Sta Aquatic F Aquatic F True Aqua Hydrogen Oxidized Presence Recent Int Thin Mucl B7) Gauge or (B8) Other (Ex	ained Lea auna (B1) atic Plants Sulfide C Rhizosph of Reduc on Reduc k Surface Well Data plain in R	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Secondary II Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2)
Pepth (inche Remarks: YDROLOGY Vetland Hydro Primary Indicato Surface Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation or Sparsely Veter Surface Water Felicial Observation	Y plogy Indicators: prs (minimum of cater (A1) Table (A2) (A3) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	magery (le Surface	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Mucl B7) Gauge or (B8) Other (Ex	ained Lea auna (B1) atic Plants Sulfide C Rhizosph of Reduc on Reduc k Surface Well Data plain in R	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4)	Secondary II Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2)
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Project/Site: Byron Solar		City/Coun	ity: Dodge		Sampling Date: 2020-10-29
Applicant/Owner: EDF Renewables		6		State: Minnesota	Sampling Point: WB-07 Wet B
Investigator(s): David Kuhlmann		Section,	Township, Rai	nge: Section 13, T106	N, R16W
				(concave, convex, none):	_
Slope (%): 2 Lat: 43.993002		Long: -9	2.688797	t	Datum: NAD 83
Soil Map Unit Name: Coland, frequently flooded-Spillville,					ion: PEM1B
Are climatic / hydrologic conditions on the site typical	for this time of ye	ar? Yes	✓ No	(If no, explain in Rer	marks.)
Are Vegetation, Soil, or Hydrology					
Are Vegetation, Soil, or Hydrology				eded, explain any answers	
SUMMARY OF FINDINGS – Attach site					
Hydrophytic Vegetation Present? Yes	No	1111		40.	
Hydric Soil Present? Yes	No		the Sampled		
Wetland Hydrology Present? Yes	No	wi	thin a Wetlan	id? Yes	No
Remarks:					
Grazed pasture					
VEGETATION – Use scientific names of pl	ants.		- (
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover		nt Indicator ? Status	Dominance Test works! Number of Dominant Spe That Are OBL, FACW, or	ecies
2					
3.				Total Number of Dominar Species Across All Strata	
4.					- 200
5				Percent of Dominant Spe That Are OBL, FACW, or	
Sapling/Shrub Stratum (Plot size 15 ft r 1	_1	= Total C	over	Prevalence Index works Total % Cover of: OBL species 40	
3.				FACW species 21	x 2 = 42
4,				FAC species 40	x 3 = 120
5				FACU species 0	x 4 = 0
5 ft r		= Total C	over	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r) 1 Poa pratensis	40	~	FAC	Column Totals: 101	(A) <u>202</u> (B)
2 Scirpus atrovirens	40	~	OBL	Prevalence Index =	= B/A = 2.0
3. Phalaris arundinacea	20		FACW	Hydrophytic Vegetation	Indicators:
4. Verbena hastata	1		FACW	1 - Rapid Test for Hy	drophytic Vegetation
5				✓ 2 - Dominance Test i	s >50%
6				3 - Prevalence Index	is ≤3.0 ¹
7					aptations (Provide supporting
8					or on a separate sheet) nytic Vegetation¹ (Explain)
9,				Froblematic Hydropi	lytic vegetation (Explain)
10		-		¹ Indicators of hydric soil a	and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	= Total C	over	be present, unless disturb	ped or problematic.
1.		-	-	Hydrophytic	
2		W T T T T T T T T T T T T T T T T T T T		Vegetation Present? Yes	No
Remarks: (Include photo numbers here or on a sep		= Total C	over	7.337.3	
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SOIL Sampling Point: WB-07 Wet B

Hydric Soil Indicators: Histos (A1) Histos (A1) Histos (A2) Histos (A3) Black Histis (A3) Depleted Black With Mideral (F1) Depleted Matrix (F3) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Bark Surface (F7) Redox Dark Surface (F7) Findicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (Incnes): 9 Wetland Hydrology indicators: Pimary Indicators (minimum of one is required check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Primary Indicators (minimum of two required check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Dirinange Patienns (B10) Water Marks (B1) Water Marks (B1) Privace (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation (A3) Presence of Reduction in Tilled Soils (C6) In non Deposits (B3) Presence of Reduction in Remarks) Field Observations: Surface Water Present? Yes V No Depth (Inches): Water able Present? Yes V No Depth (Inches): Water able Present? Yes V No Depth (Inches): Unless disturbed or Problematic Recordary Indicators (minimum of two required check all that apply) Secondary Indicators (minimum of two required check all that apply) Secondary Indicators (minimum of two required check all that apply) Secondary Indicators (minimum of two required check all that apply) Secondary Indicators (minimum of two required check all th	0 - 6 10YR 2/1 75 10YR 3/4 25 C M Silty clay loam 6 - 9 5GY 5/1 95 10YR 5/8 5 C M Silty clay - - - - - - - - - <th>M=Matrix. Hydric Soils³: 6) s (F12) cce (TF12)</th>	M=Matrix. Hydric Soils ³ : 6) s (F12) cce (TF12)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thirties of the Statistic Statistic (AS) Histocol (AT) Histocol (AT) Histocol (AT) Histocol (AT) Histocol (AT) Histocol (AT) Hydrogon Statistic (AS) Loamy Mucky Mineral (E1) Loamy Gleyed Matrix (E2) Depleted Below Dark Surface (AT1) Depleted Below Dark Surface (AT1) Thick Dark Surface (AT2) Depleted Below Dark Surface (AT1) Thick Dark Surface (AT2) Depleted Below Dark Surface (AT1) Thick Dark Surface (AT2) Depleted Below Dark Surface (AT1) Thick Dark Surface (AT2) Depleted Dark Surface (AT2) Depleted Dark Surface (AT2) Thick Dark Surface (AT2) Depleted Dark Surface (AT2) Thick Dark Surface (AT2) Depleted Dark Surface (AT2) Thick Dark Surface (AT2) Pepleted Dark Surface (AT2) Thick Dark Surface (AT2) Pepleted Dark Surface (AT2) Thick Dark Surface (AT2)	6 - 9	Hydric Soils ³ : 6) s (F12) ce (TF12)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thydric Soil Indicators: Histocol (A1) Sandy Gleyed Matrix (S4) Histlic Epipedon (A2) Sandy Redox (S5) Black Histlic (A3) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Loarny Mucky Mineral (F1) Depleted Below Dark Surface (F12) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Medox Dark Surface (F7) Thick Dark Surface (A12) Sandy Medox Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Sondy Mucky Mineral (S1) Type: Rock Deptin (Inches): YPROCK Deptin (Inches): YPROCK Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required: Mydrology Mineral (S1) Drainage Patterns (B10) Pry-Season Visible on Aerial Imagery (C9) Sondiace Water (A1) Value Yadar Marks (B1) Hydrogen Sulfide (A4) Agal Mat or Crust (B4) Recent Into Reduxed (S1) Sondiace Water Present? Yes No	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Z cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Redox Depressions (F8) PL=Pore Lining. Coast Prairie Redox (A1 Coast Prairie Redox (A1 Loamy Redox (S5) Dark Surface (S7) Loanty Gleyed Matrix (F8) Depleted Matrix (F2) Other (Explain in Remark Surface (F6) Thick Dark Surface (A12) Redox Depressions (F8) Wetland hydrology must I	Hydric Soils ³ : 6) s (F12) ce (TF12)
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Stratified Layers (A5)	Stratified Layers (A5) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) ✓ Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) ✓ Indicators of hydrophytic versions (F8)	
Depleted Matrix (F3) Depleted Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sc m Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Rock Depth (inches): 9 Remarks: Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drint Deposits (B1) Saturation (A3) True Aquatic Planus (B14) Sediment Deposits (B2) Originating Rock (B1) Sediment Deposits (B3) Originating Rock (B1) Drint Deposits (B3) Originating Rock (B3) Originating Rock (B3) Originating Rock (B3) Originating Rock (B3) Originating Rock (B3) Drint Deposits (B3) Originating Rock (B3) Originating Rock (B3) Originating Rock (B3) Originating Rock (B3) Originating Rock (B4) Drint Deposits (B3) Originating Rock (B4) Innuclation (Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Open (Explain in Remarks)	2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must I	ks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Ser Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Rock Depth (inches): 9 Remarks: Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) wetland hydrology must I	
Thick Dark Surface (A12) Depleted Dark Surface (F7)	Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) wetland hydrology must lead to the control of the co	
Sandy Mucky Mineral (S1)	Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must l	getation and
Secondary Indicators (minimum of two required: Surface Water Atl) Water Staturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Iron Deposits (B5) Iron Deposits (B5) Iron Deposits (B5) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Iron Reduction in Tilled Soils (C6) Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Iron Deposits (B7) Algal Mat or Crust (B4) Iron Deposits (B7) Iron Deposits (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Vater (Present? Yes V No Depth (inches): Water Table (C2) Wettand Hydrology Present? Yes No Depth (inches):		
Type: Rock Depth (inches): 9 Hydric Soil Present? Yes		lematic.
Popth (Inches): 9 Remarks: Hydric Soil Present? Yes		
Remarks: Pydrology Indicators: Secondary Indicators (minimum of two required: Check all that apply) Secondary Indicators (minimum of two required: Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Prainage Patterns (B10) Prainage Patterns (B10) Prainage Patterns (B10) Prainage Patterns (B10) Prainage Patterns (B10) Prainage Patterns (B10) Prainage Patterns (B10) Prainage Patterns (B10) Prainage Patterns (B10) Presence of Coraylish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Other (Explain In Remarks) Other (Explain In Remark	Under Call Description Van	V No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inches): 9	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Valuatic Fauna (B13) Surface Soil Cracks (B6) Valuatic Fauna (B13) Vater Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Vo Depth (inches): Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOGY	
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required: Surface Water (A1) Water Stained Leaves (B9) Water Act (B1) Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Dray-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) In Deposits (B5) In Undation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Soil Cracks (B6) Drainage Patterns (B10) Drain		
Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Aquatic Fauna (B13) Drainage Patterns (B10) Vater Marks (B1) Nater Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Surface Water (A1) Water-Stained Leaves (B9) Aquatic Fauna (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Factorial Test (D1) Factorial Test (D5) Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Other (Explain in Remarks) Wetland Hydrology Present? Yes No No Depth (inches): Saturation Present? Yes No Depth (inches): O Wetland Hydrology Present? Yes No No Depth (inches): O Wetland Hydrology Present? Yes No No Depth (inches): O No Depth (inches): Includes capillary fringe)		imum of two required
✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ✓ Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) ✓ Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: </td <td></td> <td></td>		
✓ Saturation (A3)		
Water Marks (B1)	그리스 경험 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
Drift Deposits (B3)		
Algal Mat or Crust (B4)	Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on A	Aerial Imagery (C9)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available:		Plants (D1)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present?		(D2)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present?	Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed P	\/
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): 2 Saturation Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed P Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position	
Surface Water Present? Yes No Depth (inches); Water Table Present? Yes No Depth (inches); Saturation Present? Yes No Depth (inches); Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed P Algal Mat or Crust (B4) Iron Deposits (B5) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5)	
Water Table Present? Yes Vo Depth (inches); 2 Saturation Present? Yes No Depth (inches); 0 Wetland Hydrology Present? Yes No Depth (inches); 0 Uncludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available:	Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed P Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
Saturation Present? Yes No Depth (inches); O Wetland Hydrology Present? Yes No No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available:	Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed P Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position of Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed P Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5 Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drift Deposits (B3)	
Remarks:	Drift Deposits (B3))
ACTIONS.	Drift Deposits (B3))
	Drift Deposits (B3))
	Drift Deposits (B3))

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020	0-10-30
Applicant/Owner: EDF Renewable	s				Sampling Point: WB-	
nvestigator(s): David Kuhlmann			Section, Township, Ra	nge: Section 13, T10	6N, R16W	
Landform (hillslope, terrace, etc.): Up				(concave, convex, none):		
Slope (%): 0-2 Lat: 43.98	26355			6		
Soil Map Unit Name: Clyde-Floyd					and a first of the second	
Are climatic / hydrologic conditions on					7	
Are Vegetation, Soil, c						No V
Are Vegetation, Soil, c						
SUMMARY OF FINDINGS -						es etc
		12200000	sampling point i	ocations, transects	, important leatur	C3, Ct0.
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No	Is the Sampled	Area		
Wetland Hydrology Present?		No_V	within a Wetlan	nd? Yes	No	
Remarks			1	10.10		-
Harvested soybean fie	eld					
VEGETATION - Use scientific	names of p	lants.				
7 30 ft r		Absolute	(12) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30 ft r		% Cover	Species? Status	Number of Dominant S		VAY
				That Are OBL, FACW,	DI FAC. U	_ (A)
2 3				Total Number of Domin Species Across All Stra		(B)
4.				Species Across Air Stra	<u>-</u>	(6)
5				Percent of Dominant Sp That Are OBL, FACW,		(A/B)
A	1E ft v		= Total Cover		-	- X X
Sapling/Shrub Stratum (Plot size				Prevalence Index wor		
1)						_
2			-	FACW species 0	x 2 = 0	_
3					x 3 = 0	
5				FACU species 0		
			= Total Cover		x 5 = 0	
Herb Stratum (Plot size: 5 ft r)		Total Gover		(A) 0	(B)
1						
2,				Prevalence Index		_
3.				Hydrophytic Vegetation		
4				2 - Dominance Tes	Hydrophytic Vegetation	
5				3 - Prevalence Inde	107. U 1 R.	
6					Adaptations [†] (Provide su	innorting
7				data in Remarks	s or on a separate shee	et)
8			FACU	Problematic Hydro	phytic Vegetation' (Exp	lain)
9,			TACO			
			= Total Cover	¹ Indicators of hydric soi be present, unless distu		y must
Woody Vine Stratum (Plot size: 30)	7227	be present, unless distr	arbed or problematic.	
1				Hydrophytic		
				Vegetation	s No	
2			= Total Cover	Present? Yes	s No	

SOIL Sampling Point: WB-08 Up

Color (moist) % 0 - 24 10YR 2/2 95 Type: C=Concentration, D=Depletion, F Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	Color (moist) 10YR 3/4 RM=Reduced Matrix, I	5 <u>C</u>	/pe¹ Loc² M	Silt Loam	Remarks
Type: C=Concentration, D=Depletion, F Hydric Soil Indicators: Histosol (A1)			M	Silt Loam	
ydric Soil Indicators: _ Histosol (A1)	RM=Reduced Matrix, I				
lydric Soil Indicators: Histosol (A1)	RM=Reduced Matrix, I				
ydric Soil Indicators: _ Histosol (A1)	RM=Reduced Matrix, I				
ydric Soil Indicators: _ Histosol (A1)	RM=Reduced Matrix, I				
ydric Soil Indicators: _ Histosol (A1)	RM=Reduced Matrix, I				
lydric Soil Indicators: Histosol (A1)	RM=Reduced Matrix, I				
lydric Soil Indicators: Histosol (A1)	RM=Reduced Matrix, I				
lydric Soil Indicators: Histosol (A1)	NIVI-Reduced IVIatrix, I	and the standard Con	nd Grains	21 position: DI =Dr	ore Lining, M=Matrix.
_ Histosol (A1)		vio-iviaskeu oai	id Grains.		blematic Hydric Soils ³ :
	Sandy	Gleyed Matrix	(S4)	Coast Prairie R	마다 그는 것이 맛있다. 스타스 보기 그녀는 그 그 때문
Histic Epipedoli (AZ)		Redox (S5)	,	Dark Surface (
Black Histic (A3)	Stripp	ed Matrix (S6)		Iron-Manganes	se Masses (F12)
_ Hydrogen Sulfide (A4)		y Mucky Mineral			Dark Surface (TF12)
Stratified Layers (A5)		y Gleyed Matrix	(F2)	Other (Explain	in Remarks)
_ 2 cm Muck (A10)		ted Matrix (F3) c Dark Surface (FG)		
 Depleted Below Dark Surface (A11) Thick Dark Surface (A12) 		ted Dark Surface (3 Indicators of hydro	ophytic vegetation and
Sandy Mucky Mineral (S1)		Depressions (F			ogy must be present,
5 cm Mucky Peat or Peat (S3)		, especially	-/		ed or problematic
testrictive Layer (if observed):					
Type:				incode warm	3. 5. / 2.
Depth (inches):				Hydric Soil Present	t? Yes No
YDROLOGY					
Vetland Hydrology Indicators:					
rimary Indicators (minimum of one is re	equired; check all that	apply)		Secondary Indica	ators (minimum of two require
Surface Water (A1)	Water-S	tained Leaves (E	39)	Surface Soil	Cracks (B6)
High Water Table (A2)	Aquatic	Fauna (B13)		Drainage Pa	itterns (B10)
Saturation (A3)	True Aqu	uatic Plants (B14	1)	Dry-Season	Water Table (C2)
Water Marks (B1)	Hydroge	n Sulfide Odor (C1)	Crayfish Bur	rows (C8)
_ Sediment Deposits (B2)	Oxidized	Rhizospheres o	on Living Roots (0	3) Saturation V	isible on Aerial Imagery (C9)
_ Drift Deposits (B3)	Presence	e of Reduced Iro	on (C4)		Stressed Plants (D1)
_ Algal Mat or Crust (B4)			Tilled Soils (C6)		Position (D2)
_ Iron Deposits (B5)		ck Surface (C7)		FAC-Neutra	Test (D5)
Inundation Visible on Assist Income		r Well Data (D9)			
_ Inundation Visible on Aerial Imagery	ce (B8) Other (E	xplain in Remarl	KS)		
Sparsely Vegetated Concave Surface					
Sparsely Vegetated Concave Surfactive Sparsely Vegetated Concave Surfactive Sparsely	V 5-44	Carrier.			
Sparsely Vegetated Concave Surfactield Observations: surface Water Present? Yes	No Depth (_		
Sparsely Vegetated Concave Surfactive Concave Surfactive Concave Surface Surface Water Present? Yes	No V Depth (inches):			
Sparsely Vegetated Concave Surface lield Observations: Surface Water Present? Yes Vater Table Present? Yes Saturation Present? Yes Includes capillary fringe)	No Depth (inches):inches):		nd Hydrology Preser	nt? Yes No
Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Nater Table Present? Yes Saturation Present? Yes includes capillary fringe) Describe Recorded Data (stream gauge)	No V Depth (No V Depth (monitoring well, aeria	inches): inches); il photos, previou	us inspections), it	available:	nt? Yes No
Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Includes capillary fringe) Describe Recorded Data (stream gauge, ample tucked between 2 hills be	No V Depth (No V Depth (monitoring well, aeria	inches): inches); il photos, previou	us inspections), it	available:	nt? Yes No
Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes	No V Depth (No V Depth (monitoring well, aeria	inches): inches); il photos, previou	us inspections), it	available:	nt? Yes No

Project/Site: Byron Solar				City/Co	ounty:	Dodge		Sampling Date: 202	0-10-30
Applicant/Owner: EDF Renewables	3						State: Minnesota	Sampling Point: WB-	-08 Wet
Investigator(s): David Kuhlmann				Sectio	n, To	wnship, Ra	nge: Section 13, T10	6N, R16W	
Landform (hillslope, terrace, etc.): Dep							(concave, convex, none):	_	
Slope (%): 0-2 Lat: 43.982	2586			Long:	-92	.69792	Transfer Transfer	Datum: NAD 83	
Soil Map Unit Name: Clyde-Floyd	complex	, 1 to	4 percent sl	opes	(M5	18B)	NWI classific	ation: None	
Are climatic / hydrologic conditions on t	he site typ	oical fo	r this time of yea	ar? Ye	es	No	(If no, explain in R	(emarks.)	
Are Vegetation, Soil, or							'Normal Circumstances"		No
Are Vegetation, Soil, or							eeded, explain any answe		
SUMMARY OF FINDINGS - A									res, etc.
Hydrophytic Vegetation Present?	Yes		No		. 7 5		a sanda di alimatana		
Hydric Soil Present?	Yes		No		is th	e Sampled			
Wetland Hydrology Present?	Yes_	~	No	-1,1	with	in a Wetlar	nd? Yes	No	
Remarks:									
Roadside ditch									
VEGETATION – Use scientific	names o	of pla	nts.						
			Absolute	Dom	inant	Indicator	Dominance Test work	sheet;	
Tree Stratum (Plot size: 30 ft r			% Cover	Spec	cies?	Status	Number of Dominant S		
1				_	_		That Are OBL, FACW,	or FAC: 1	(A)
3						_	Total Number of Domin	geogra-	(D)
4.				-			Species Across All Stra	ıta:	(B)
5.							Percent of Dominant S That Are OBL, FACW,		(A/B)
1	F 64			= Tota	al Cov	er		A A A	_ (////)
Sapling/Shrub Stratum (Plot size 1)				Prevalence Index wor		
1.				-	_	—	Total % Cover of:		_
2				_	-	_	OBL species 0 FACW species 100	$x 1 = \frac{0}{x 2 = 200}$	-
4.				-	-	_	FAC species 0	x 3 = 0	==
5				_	_	_	FACU species 0	x 4 = 0	_
A				= Tota	al Cov	er	UPL species 0	× 5 = 0	
Herb Stratum (Plot size: 5 ft r)						Column Totals: 100	(A) 200	(B)
1. Phalaris arundinacea			100		_	FACW	Bank as full	- P/4 - 2 O	
2,				_	_	-	Prevalence Index Hydrophytic Vegetation	3000	_
3				-	_			Hydrophytic Vegetation	
4				_	_	_	✓ 2 - Dominance Tes		-
5 6							✓ 3 - Prevalence Inde		
7				_		_	4 - Morphological /	Adaptations ¹ (Provide s	upporting
8.				_				s or on a separate shee	
9,							Problematic Hydro	phytic Vegetation¹ (Exp	olain)
10							4	and the late of th	10.7
Woody Vine Stratum (Plot size: 30	ft r)	100%	= Tota	al Cov	/er	¹ Indicators of hydric so be present, unless disti		y must
1							Hydrophytic		
2.							Vegetation	V	
				= Tota	al Cov	er	Present? Ye	s No	
Remarks: (Include photo numbers he	ere or on a	separ	ate sheet.)						

SOIL Sampling Point: WB-08 Wet

Depth	Matrix			dox Featur				
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc2	Texture	Remarks
0 - 24	10YR 2/1	95	10YR 5/8	5	<u> </u>	М	Sandy clay loam	
8-24	10YR 4/2	75	10YR 5/8	25	С	M	Clay	
						=		
Type: C=Co	ndicators:	pletion, RI	M=Reduced Matrix,	MS=Maske	JE 4.5		Indicators for	L=Pore Lining, M=Matrix. Problematic Hydric Soils ³ : irie Redox (A16)
Histic Ep Black His Hydroge	oipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5)		Sand Stripp Loam Loam	y Redox (S bed Matrix (by Mucky M by Gleyed N eted Matrix	5) (S6) lineral (F1) flatrix (F2)	6	Dark Surfa Iron-Mang Very Shall	
Depleted Thick Da Sandy M 5 cm Mu	Below Dark Surface ark Surface (A12) lucky Mineral (S1) lucky Peat or Peat (S	33)	✓ Redo — Deple	x Dark Sur eted Dark S x Depressi	face (F6) Surface (F7	n	wetland hy	nydrophytic vegetation and drology must be present, turbed or problematic.
Restrictive L	ayer (if observed)):						
Tuesday								
Type:	ab no le		_				Hydric Soil Pre	sent? Yes No
Depth (inc Remarks:		be re	ached, A12	assum	ed		Hydric Soil Pre	sent? Yes No
Depth (inc Remarks: B horizo	on could not		ached, A12	assum	ed		Hydric Soil Pre	sent? Yes No
Depth (inc Remarks: B horizo	on could not GY drology Indicators	:			ed			
Depth (incongress) Remarks: B horizo IYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation	GY drology Indicators eators (minimum of Water (A1) ter Table (A2)	: one is req	uired: check all that Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu B7) Gauge 6		ves (B9) 3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary II Surface Drainag Dry-Sea Crayfish s (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Depth (incongress) Proposition of the proposition	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial (Vegelated Concavivations:	: one is req Imagery (ve Surface	uired: check all that Water-S Aquatic True Aq Hydroge Oxidizer Presenc Recent Thin Mu B7) Gauge 6 (B8) Other (B	apply) Stained Lea Fauna (B1 uatic Plant en Sulfide (d Rhizosph te of Reduc lron Reduc lck Surface or Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary II Surface Drainag Dry-Sea Crayfish s (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Depth (incongress) Remarks: B horizo YDROLO Wetland Hyo Primary Indicongress High Water Mand Sediment Drift Depton Algal Mander Incongress Inundationg Sparsely Field Observious	GY drology Indicators eators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) arks (B3) art Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial of Vegetated Concavivations:	: one is req Imagery (ve Surface	uired: check all that Water-S Aquatic True Aq Hydroge Oxidized Presend Recent Thin Mu B7) Gauge 6 (B8) Depth	apply) Stained Lea Fauna (B1 uatic Plant en Sulfide (d Rhizosph ce of Reduc lron Reduc lck Surface or Well Dat explain in R	ves (B9) 3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary II Surface Drainag Dry-Sea Crayfish s (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) in Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Depth (incongress) Remarks: B horizo IYDROLOG Wetland Hyde Primary Indicongress High Water Manager Mater Manager Manager Manager Manager Manager Mater Table Depth (incongress) IYDROLOG Wetland Hyde Surface High Water Manager Mate	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Vegelated Concavivations: er Present?	: one is req Imagery (ve Surface Yes Yes	uired: check all that Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu B7) Gauge ((B8) Other (B	apply) Stained Lea Fauna (B1 uatic Plant en Sulfide (d Rhizosph ce of Reduc lron Reduc ick Surface or Well Dat Explain in R (inches): (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Secondary II Surface Drainag Dry-Sea Crayfish S (C3) Saturati Stunted Geomor	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Depth (inc Remarks: B horizo IYDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observ Surface Water Table Saturation Pr (includes cap	GY drology Indicators eators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) arks (B3) arks (B3) art or Crust (B4) oosits (B5) on Visible on Aerial of Vegetated Concavity vations: er Present? Present?	: one is req Imagery (ve Surface Yes Yes Yes	uired: check all that Water-S Aquatic True Aq Hydroge Oxidized Presend Recent Thin Mu B7) Gauge ((B8) Other (B	apply) Stained Lea Fauna (B1 uatic Plant en Sulfide (d Rhizosph ce of Reduc lron Reduc lron Reduc lck Surface or Well Dat Explain in R (inches): (inches): (inches): (inches): (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	We	Secondary II Surface Drainag Dry-Sea Crayfish S (C3) Saturati Stunted C6) Geomor	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) in Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Depth (inc Remarks: B horizo IYDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observ Surface Water Table Saturation Pr (includes cap	GY drology Indicators eators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) arks (B3) arks (B3) art or Crust (B4) oosits (B5) on Visible on Aerial of Vegetated Concavity vations: er Present? Present?	: one is req Imagery (ve Surface Yes Yes Yes	uired: check all that Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu B7) Gauge ((B8) Other (B	apply) Stained Lea Fauna (B1 uatic Plant en Sulfide (d Rhizosph ce of Reduc lron Reduc lron Reduc lck Surface or Well Dat Explain in R (inches): (inches): (inches): (inches): (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Li ced Iron (C tion in Tille (C7) a (D9)	We	Secondary II Surface Drainag Dry-Sea Crayfish S (C3) Saturati Stunted C6) Geomor	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar			City/County: Dodge	Sampling Date: 2020-10	-30
Applicant/Owner: EDF Renewables	S		6.00	State: Minnesota Sampling Point: WB-09 U	Jp
Investigator(s): David Kuhlmann			Section, Township, Ra	nge: Section 11, T106N, R16W	
Landform (hillslope, terrace, etc.); Hill				(concave, convex, none): Convex	
Slope (%): 2-5 Lat: 44.003	3042		Long: -92.711954	Datum: NAD 83	
		3 percent slo	opes (M517A)	NWI classification: None	
Are climatic / hydrologic conditions on t	the site typical	for this time of ye	ar? Yes No	(If no, explain in Remarks.)	
Are Vegetation, Soil, or				"Normal Circumstances" present? Yes No	~
Are Vegetation, Soil, or				eeded, explain any answers in Remarks.)	
				ocations, transects, important features,	etc.
Hydrophytic Vegetation Present?	Yes	No	111 / 2000		
Hydric Soil Present?	Yes V	No	Is the Sample		
Wetland Hydrology Present?	Yes	No	within a Wetla	nd? Yes No	
Remarks:					
Harvested and tilled co	orn field o	outside of	swale		
VEGETATION – Use scientific	names of pl	ants.			
		Absolute	Dominant Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species? Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 0 (A	1)
2			-	Total Number of Dominant	
3		$-\langle - \rangle$		Species Across All Strata: 0 (B	()
4			-	Percent of Dominant Species	
5			T-1-10	That Are OBL, FACW, or FAC: 0 (A	VB)
Sapling/Shrub Stratum (Plot size 1	5 ft r	3	≃ Total Cover	Prevalence Index worksheet:	
1				Total % Cover of: Multiply by:	
2				OBL species 0 x 1 = 0	
3.				FACW species $0 \times 2 = 0$	
4,				FAC species 0 x 3 = 0	
5				FACU species 0 x 4 = 0	
FA.			= Total Cover	UPL species 0 x 5 = 0	
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0 (A) 0	(B)
1				Prevalence Index = B/A = 0.0	
2,				Hydrophytic Vegetation Indicators:	_
3			FACU	1 - Rapid Test for Hydrophytic Vegetation	
4			17.00	2 - Dominance Test is >50%	
5 6				3 - Prevalence Index is ≤3.01	
7				4 - Morphological Adaptations (Provide suppor	tina
8				data in Remarks or on a separate sheet)	
9,				Problematic Hydrophytic Vegetation¹ (Explain)	
10.					
Woody Vine Stratum (Plot size: 30			= Total Cover	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	t
1		,		Hardan double	
				Hydrophytic Vegetation	
2					
2.			= Total Cover	Present? Yes No	

SOIL Sampling Point: WB-09 Up

(inches) Color (most) % Type Loc* Teture Remarks 0 - 24 10YR 2/2 95 10YR 3/4 5 C M Silt Loam Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains.	Depth Mat			lox Feature			41	6/2-4
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.			Color (moist)	%_	Type ¹	Loc2	Texture	Remarks
Histosol (A1)	0 - 24 10YR 2/2	95	10YR 3/4	_ 5	<u>C</u>	M	Silt Loam	
Mydric Soil Indicators:								
Miscosol (A1)	-							
Mydric Soil Indicators:								
Miscosol (A1)			-		_	_		
Miscosol (A1)			-		-	_		
Histosol (A1)				_				
Histosol (A1)								
Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A3) Histos Epipedon (A2) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Histosol (A3) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Delow Dark Surface (A11) Depleted Delow Dark Surface (A11) Pereleted Delow Dark Surface (A12) Depleted Delow Dark Surface (F7) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Redox Depressions (F8) Hydric Soil Present? Yes No Depth (Inches): Hydric Soil Present? Yes No No Wetland Hydrology Indicators: Hydric Soil Present? Yes No Drink Dark Surface (A11) Drink Dark Surface (A11) Hydric Soil Present? Yes No Depth (Inches): Hydric Soil Present? Yes No Drink Dark Surface (A11) Drink Dark Surface (A11) Drink Dark Surface (A11) Drink Dark Surface (A11) Drink Dark Surface (A11) Hydric Soil Present? Yes No Drink Dark Surface (A11) D	Type: C=Concentration, D=	Depletion, RI	M=Reduced Matrix, I	//S=Maske	d Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hallic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F2) Strattled Layers (A5) Loarny Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Set mucky Peat or Peat (S3) Set indicators (F5) Depleted Dark Surface (F6) Type: Depth (inches): Wetland Hydrology Indicators: Inmary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Hydrix Soil Present? Yes No Depleted Park (B1) Naturation (A3) True Aquatic Plants (B14) Sediment Deposits (B2) Oxidized Rhizosphieres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Info Deposits (B3) Presence of Reduced Iron (C4) Info Peoposits (B3) Presence of Reduced Iron (C4) Sparsely Vegetated Concave Surface (B8) Info Deposits (B5) Inimal Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Surface (B1) Saturation Present? Yes No Depth (inches): Dep	ydric Soil Indicators:						Indicators for	Problematic Hydric Soils ³ :
Ellack Histic (A3)	_ Histosol (A1)		Sandy	Gleyed M	atrix (S4)		Coast Prai	rie Redox (A16)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Query Shallow Dark Surface (TF12) Query Shallow Dark Surface (TF12) Query Shallow Dark Surface (A10) Query Shallow Dark Surface (A11) Peleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S3) Sandy Mucky Mineral (S1) Some Mucky Peat or Peat (S3) Surface Water (F6) Peleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Some Mucky Peat or Peat (S3) Surface Water (F6) Pepth (inches): Wetland Hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: Depth (inches): Water Hark Soil Present? Yes No No No Persence of Reduced Iron (C4) Surface Water (A1) Secondary Indicators (minimum of two requires (A2) Saturation (A3) True Aquatic Plants (B14) Drainage Patterns (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Subted or Stressed Plants (D1) Algal Mat or Crust (B4) Persence of Reduced Iron (C4) Sparsely Vegetated Concave Surface (B8) Drift (Romery) Control of the Members of Present? Pes No Depth (inches): Unlead Observations: Unlead Observations: Unlead Observations: Unlead Outside of swale approximately 2 foot higher in elevation Wetland Hydrology Present? Yes No Depth (inches): Surface Water Present? Pes No Depth (inches): Surface Water Present? Pes No Depth (inches): Surface Water Present? Pes								
Stratified Layers (A5)					the second second second			
2 cm Muck (A10)	The state of the s							
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F5) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Sestrictive Layer (if observed): Type: Depth (inches): Setrictive Layer (if observed): Type: Depth (inches): Surface (A12) Water Marks (B1) Surface (A12) Water Marks (B1) Surface (B1) Surface (B2) Surface (B2) Surface (B2) Surface (B3) Surface (B1) Surface (B1) Surface (B1) Surface (B1) Surface (B1) Surface (B1) Surface (B1) Surface (B2) Surface (B1) Surface (B1) Surface (B1) Surface (B1) Secondary Indicators (minimum of two required check all that apply) Secondary Indicators (minimum of two required check all that apply) Surface (B1) S							Other (Exp	plain in Remarks)
Thick Dark Surface (A12) Depleted Dark Surface (F7)		ofeen (A44)						
Sandy Mucky Mineral (S1)						1	3 Indicators of I	ovdrophytic vegetation and
Sex Mucky Peat or Peat (S3) Type:					The second second second	, .		
PyDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Surface Water (A2) Surface Water (A2) Aqualic Fauna (B13) Surface Water (A2) High Water Table (A2) Surface Water (A3) True Aquatic Plants (B14) Sediment Deposits (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation (A3) Presence of Reduced Iron (C4) Suthated or Stressed Plants (D1) Algal Mat or Crust (B4) Iron Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B5) Inhin Muck Surface (C7) Inhundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Vater Table Present? Ves No Depth (inches): Vater Table Present? Ves No Depth (inches): Vater Table Present? Ves No Depth (inches): Vater Table Present? Ves No Depth (inches): Vater Table Present? Ves No Depth (inches): Vater Table Present? Ves No Depth (inches): Vater Table Present? Ves No Depth (inches): Vater Table Cotted outside of swale approximately 2 foot higher in elevation Wetland Hydrology Present? Ves Mo Water Inchesical Imagery (B7) Vater Table Present? Ves No Depth (inches): Vater Table Cotted outside of swale approximately 2 foot higher in elevation				, 20, 500,	,,,,			
Depth (Inches):							1	
POROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Sediment Deposits (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Ino Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Vere (B8) Other (Explain in Remarks) Vetland Hydrology Present? Ves No Depth (inches): Selutation (A3) Water Marks (B1) Algal Mat or Crust (B4) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Vetland Hydrology Present? Ves No Depth (inches): Surface Soil Cracks (B6) Dorin Deposits (B2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D5) Water Marks (B1) FAC-Neutral Test (D5) Water Table Present? Ves No Depth (inches): Surface Water Present? Ves No Depth (inches): Wetland Hydrology Present? Yes No Search (Inches): Wetland Hydrolo	Type:						The second second	
VPDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B8) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Veriface Water Present? Ves No Depth (inches): Vestand Hydrology Present? Ves No Depth (inches): Vestand Hydrology Present? Ves No Depth (inches): Vestand Hydrology Present? Ves No Depth (inches): Vestand Hydrology Present? Ves No Depth (inches): Vestand Hydrology Present? Ves No Vestand Hydrology Present? Ves No Vestand Hydrology Present? Ves No Vestand Hydrology Present? Ves No Vestand Hydrology Present? Ves No Ves No Vestand Hydrology Present? Ve	Depth (inches):						Hydric Soil Pre	sent? Yes No
Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) Vater Marks (B7) Depth (inches): Vater Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Sparsely Vegelated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Water Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Wetland Hydrology Pre								
Netland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6)	Remarks:							
Secondary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Secondary Indicators (minimum of two required in the properties of the proper								
Surface Water (A1)	YDROLOGY							
High Water Table (A2)	YDROLOGY Vetland Hydrology Indicat							
Saturation (A3)	YDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum			to the second				
Water Marks (B1)	YDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1)		Water-S	tained Leav			Surface	Soil Cracks (B6)
Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Ves No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available: Sample located outside of swale approximately 2 foot higher in elevation	YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-S Aquatic	tained Leav Fauna (B13	3)		Surface Drainag	Soil Cracks (B6) e Patterns (B10)
	YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Si Aquatic True Aqu	tained Leav Fauna (B13 uatic Plants	3) s (B14)		Surface Drainag Dry-Sea	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vesturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Vescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections); if available: ample located outside of swale approximately 2 foot higher in elevation	YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is req	Water-Si Aquatic True Aqu Hydroge	tained Leav Fauna (B1) uatic Plants n Sulfide C	3) s (B14) odor (C1)		Surface Drainag Dry-Sea Crayfish	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Surface Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Saturation Pre	YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is req	Water-Si Aquatic True Aqu Hydroge Oxidized	tained Leav Fauna (B13 uatic Plants n Sulfide O Rhizosph	3) s (B14) odor (C1) eres on Liv		Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present?	YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is req	Water-Si Aquatic True Aqu Hydroge Oxidized	tained Leav Fauna (B13 uatic Plants n Sulfide C Rhizosphi e of Reduc	3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
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Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: ample located outside of swale approximately 2 foot higher in elevation	YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations:	of one is req rial Imagery (cave Surface	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B7) Gauge of	tained Leav Fauna (B1; uatic Plants n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface r Well Data xplain in R	B) s (B14) clor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish S(C3) Saturati Stunted G6) Geomo	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: ample located outside of swale approximately 2 foot higher in elevation	YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present?	of one is req rial Imagery (cave Surface Yes	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B7) Gauge of e (B8) Other (E	tained Leav Fauna (B1; uatic Plants in Sulfide C Rhizosphi e of Reduct ron Reduct ck Surface in Well Data xplain in R	B) s (B14) clor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish S(C3) Saturati Stunted G6) Geomo	Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
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Project/Site: Byron Solar	City	County: Dodge		Sampling Date: 2020-10-30
Applicant/Owner: EDF Renewables			State: Minnesota	Sampling Point: WB-09 Wet
nvestigator(s): David Kuhlmann	Sec	tion, Township, Ra	nge: Section 11, T106	5N, R16W
			(concave, convex, none):	
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 p	- 0.0			A STATE OF THE STA
Are climatic / hydrologic conditions on the site typical for the			To a decrease de	
Are Vegetation, Soil, or Hydrology				resent? Yes No
Are Vegetation, Soil, or Hydrology			eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map				
		Inpining point i	ocations, transects	, important leatures, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No	Is the Sampled	Area	
Wetland Hydrology Present? Yes 1		within a Wetlan		No
Remarks		1 10 0 277		
Wetland swale, distinguished from other upla	nd swales bas	sed on predom	inance of barnyard g	rass and yellow nutsedge
VEGETATION – Use scientific names of plants	S			
Tree Stratum (Plot size:30 ft r)		ominant Indicator	Dominance Test work	
	% Cover Sp	ecies? Status	Number of Dominant Sp	
1		_	That Are OBL, FACW, o	or FAC: 2 (A)
3			Total Number of Domin Species Across All Stra	
4.				327
5.			Percent of Dominant Sp That Are OBL, FACW, of	
1F ft	= ∓ T	otal Cover		
Sapling/Shrub Stratum (Plot size 15 ft r)			Prevalence Index work	
1			Total % Cover of:	
2			OBL species 0 FACW species 60	x 1 = 0 x 2 = 120
3			FAC species 10	$x = \frac{120}{30}$
4	-		FACU species 0	x 4 = 0
0	- T	otal Cover	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r)			Column Totals: 70	(A) 150 (B)
1. Cyperus esculentus	30	✓ FACW	Column Totalo,	
2. Echinochloa crus-galli	30	✓ FACW	Prevalence Index	= B/A = 2.1
3. Setaria pumila	10	FAC	Hydrophytic Vegetation	
4			✓ 1 - Rapid Test for h	
5,			✓ 2 - Dominance Tes	
6			3 - Prevalence Inde	
7				daptations (Provide supporting sor on a separate sheet)
8/				phytic Vegetation¹ (Explain)
9,	-		i residinate riyarej	Stry to Vegetation (Explain)
10	700/		¹ Indicators of hydric soi	I and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	70% = T	otal Cover	be present, unless distu	orbed or problematic.
1	->		Hydrophytic	
			Vegetation	s No
2	100	otal Cover	Present? Yes	s No

SOIL Sampling Point: WB-09 Wet

Depith Matrix Redox Features Color (moist) % Type Loc Texture Remarks
8 · 24 10YR 4/2 75 10YR 5/8 25 C M Clay Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosoil (A1)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Redox (Af 6) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Below Dark Surface (F1) Type: Other (Explain in Remarks) Type: Other (Explain in Rema
Hydric Soil Indicators: Histosof (A1)
Hydric Soil Indicators: Histosof (A1)
Hydric Soil Indicators: Histosof (A1)
Hydric Soil Indicators: Histosof (A1)
Hydric Soil Indicators: Histosof (A1)
Hydric Soil Indicators: Histosof (A1)
Hydric Soil Indicators: Histosof (A1)
Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Depleted Matrix (F2) Other (Explain in Remarks) V Depleted Below Dark Surface (A11) Pepoleted Matrix (F3) V Depleted Below Dark Surface (A11) Pepoleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Pepoleted Dark Surface (F8) Som Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Water Stained Leaves (B9) Surface (A11) Surface (A11) Surface (A11) Surface (A12) Surface Water (A1) Water-Stained Leaves (B9) Surface (A12) Surface (A13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery Drift Deposits (B2) Oxidized Phizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Z cm Muck (A10) Depleted Matrix (F3) Z Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present? Yes No_
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Z Depleted Below Dark Surface (A11) Pepleted Matrix (F3) Z Depleted Below Dark Surface (A11) Pepleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No_ Remarks: Wetland Hydrology Indicators: Frimary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two responses to the problematic of the problematic o
Stratified Layers (A5)
2 cm Muck (A10)
✓ Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Inhick Dark Surface (A12) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:
Thick Dark Surface (A12) Depleted Dark Surface (F7)
5 cm Mucky Peat or Peat (S3) unless disturbed or problematic. Restrictive Layer (if observed):
Restrictive Layer (if observed): Type:
Type:
Remarks: Application Present? Present
Remarks: IVDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two records) Secondary Indicators (minimum of two records) Secondary Indicators (minimum of two records) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (Drift Deposits (B3)) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Secondary Indicators (minimum of two regreed and provided and prov
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Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Water Marks (B1)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Swale Remarks:

Applicant/Owner: EDF Renewables Investigator(s): David Kuhlmann Landform (hillslope, terrace, etc.): Hills Slope (%): 2-5 Lat: 44.001 Soil Map Unit Name: Readlyn silt loc Are climatic / hydrologic conditions on the	slope 8311 am, 1 to 3 p		Local relief	State: Minnesota	6N, R16W	WB-10 Up
Landform (hillslope, terrace, etc.): Hills Slope (%): 2-5 Lat: 44.001 Soil Map Unit Name: Readlyn silt lo	slope 8311 am, 1 to 3 p ne site typical		Local relief			
Slope (%): 2-5 Lat: 44.001	slope 8311 am, 1 to 3 p ne site typical		Local relief			
Soil Map Unit Name: Readlyn silt lo	am, 1 to 3 p	-		(concave, convex, none):	Convex	
	ne site typical	acroont alance	Long: -92.7221769		Datum: NAD 83	}
Are climatic / hydrologic conditions on the		bercent slopes	(M511A)	NWI classific	ation: None	
		for this time of year	ar? Yes No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or l	Hydrology					No V
Are Vegetation, Soil, or				eded, explain any answe		
SUMMARY OF FINDINGS - A						atures etc
	SECTION AND ADDRESS OF	T T CO O CO O CO	Sampling point i	ocations, transects	, important le	itures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No	Is the Sampled	Area		
Wetland Hydrology Present?		No V	within a Wetlan		No	
Remarks:			1 1000 277	200		
Harvested and tilled corn field,	located up	slope and out	side of area with a	erial signatures. Soil	less heavily ti	lled.
VEGETATION - Use scientific r	names of p	lants.		W		
20 ft =		Absolute	12.3 A 1 MARIE CO. JAN 14.2 CO. CO.	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30 ft r		% Cover	Species? Status	Number of Dominant Sp That Are OBL, FACW, of		(A)
2.					-	1
3				Total Number of Domini Species Across All Stra		(B)
4						-325-
5				Percent of Dominant Sp That Are OBL, FACW, of		(A/B)
Sapling/Shrub Stratum (Plot size 15	5 ft r	W 1	= Total Cover	Prevalence Index worl	leheati	
				Total % Cover of:		hv-
1 2					x 1 = 0	Dy.
3				FACW species 0	x 2 = 0	
4,				FAC species 0	x 3 = 0	
5:				FACU species 0		
1 A 7			= Total Cover		x 5 = 0	
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0	(A) 0	(B)
1				Prevalence Index		
2,				Hydrophytic Vegetation	100	
3				1 - Rapid Test for H		ation
4				2 - Dominance Tes		idori
5				3 - Prevalence Inde		
6				4 - Morphological A		de supporting
7			-		s or on a separate	
8 9,			FACU	Problematic Hydrop	ohytic Vegetation ¹	(Explain)
10.			17,00	A STATE OF THE STA		
Woody Vine Stratum (Plot size: 30 f			= Total Cover	¹ Indicators of hydric soil be present, unless distu		
1				Hydrophytic		
2,				Vegetation	s No	V
			= Total Cover	Present? Yes	s No	
Remarks: (Include photo numbers her Harvested and tilled co		arate sheet.)				

SOIL Sampling Point: WB-10 Up

Depth Ma			dox Feature			-1	670.40
(inches) Color (mois		Color (moist)	%	Type ¹	_Loc2	Texture	Remarks
0 - 24 10YR 2/1	98	10YR 3/4	_ 2	<u>C</u>	M	Clay loam	
		-					
	_			-	_		
			_				
			نسان				
Type: C=Concentration, D	Depletion, RI	M=Reduced Matrix,	MS=Maske	d Sand G	ains.	² Location: PL	=Pore Lining, M=Matrix.
ydric Soil Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol (A1)		Sand	y Gleyed M	atrix (S4)		Coast Prair	ie Redox (A16)
Histic Epipedon (A2)			y Redox (S			Dark Surfa	
_ Black Histic (A3)			ed Matrix (the second second second			nese Masses (F12)
_ Hydrogen Sulfide (A4)			y Mucky M				w Dark Surface (TF12)
Stratified Layers (A5)			y Gleyed N			Other (Exp	ain in Remarks)
_ 2 cm Muck (A10) _ Depleted Below Dark S	urface (A11)		ted Matrix x Dark Suri				
Thick Dark Surface (A1			ted Dark S		Y	3Indicators of h	ydrophytic vegetation and
Sandy Mucky Mineral (x Depressi	The state of the s	,		Irology must be present,
5 cm Mucky Peat or Pe			y 2-16-5-50	- V - V			urbed or problematic
estrictive Layer (if obser						1	
Type:						100000000	7 Th to 1 2
						Hydric Soil Pres	sent? Yes No
Depth (inches):temarks:		_				The second second second	
emarks:		_					
remarks:	ors:						
Remarks: YDROLOGY Vetland Hydrology Indica		uired; check all that	apply)			Secondary In	dicators (minimum of two require
Pemarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimun			the second second	ves (B9)			
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum Surface Water (A1)		Water-S	tained Lea	0.00		Surface	Soil Cracks (B6)
Pemarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimun		Water-S Aquatic	the second second	3)		Surface Drainage	Soil Cracks (B6) Patterns (B10)
YDROLOGY Vetland Hydrology Indica rimary Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-S Aquatic True Aq	tained Lea Fauna (B1)	3) s (B14)		Surface Drainage Dry-Sea	Soil Cracks (B6)
YDROLOGY Vetland Hydrology Indica rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is req	Water-S Aquatic True Aq Hydroge	tained Lea Fauna (B1) uatic Plants	3) s (B14) Odor (C1)	ving Roots	Surface Drainage Dry-Sea: Crayfish	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized	tained Lea Fauna (B1) uatic Plants en Sulfide (3) s (B14) Odor (C1) eres on Liv	1000	Surface Drainage Dry-Sea: Crayfish s (C3) Saturation	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph	3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Surface Drainage Dry-Sea: Crayfish (C3) Saturatio	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indica rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized Presenc	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph ee of Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C	4)	Surface Drainage Dry-Sea: Crayfish Stunted Stunted Geomor	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one is req	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph ee of Reduc Iron Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7)	4)	Surface Drainage Dry-Sea: Crayfish Stunted Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Onic Position (D2)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	n of one is req	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of	tained Lea Fauna (B1) uatic Plants on Sulfide C d Rhizosph de of Reduc lron Reduc ck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea: Crayfish Stunted Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Onic Position (D2)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ai	n of one is req	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph e of Reduc fron Reduc ck Surface or Well Data	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea: Crayfish Stunted Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Onic Position (D2)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ac Sparsely Vegetated Co Field Observations:	n of one is req	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph e of Reduc fron Reduc ck Surface or Well Data	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea: Crayfish Stunted Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Onic Position (D2)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ac Sparsely Vegetated Co field Observations:	of one is req erial Imagery (ncave Surface	Water-S Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of (B8) Other (E	tained Lea Fauna (B1) uatic Plants en Sulfide (d d Rhizosph e of Reduc fron Reduc ck Surface or Well Data explain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface Drainage Dry-Sea: Crayfish Stunted Stunted Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Onic Position (D2)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on AcSparsely Vegetated Coffield Observations: Surface Water Present? Nater Table Present? Saturation Present? includes capillary fringe)	erial Imagery (ncave Surface Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Presence Recent I Thin Mu (B7) Gauge of (B8) Other (B	tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph de of Reduc fron Reduc ck Surface or Well Data explain in R inches); (inches); (inches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainage Dry-Sea: Crayfish s (C3) Saturatio Stunted 6) Geomory FAC-Net	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Ohic Position (D2) Utral Test (D5)
Process Process Process Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ausparsely Vegetated Coffield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Social Company Strings Secribe Recorded Data (st	erial Imagery (ncave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of (B8) Other (E No Depth (No Depth (No Depth (tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph e of Reduc fron Reduc ck Surface or Well Data explain in R finches): finches): al photos, p	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainage Dry-Sear Crayfish (C3) Saturatio Stunted (6) Geomory FAC-Net	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1) Ohic Position (D2) Utral Test (D5)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ai Sparsely Vegetated Co Field Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Security Saturation Present Present? Security Saturation Present P	erial Imagery (ncave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of (B8) Other (E No Depth (No Depth (No Depth (tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph e of Reduc fron Reduc ck Surface or Well Data explain in R finches): finches): al photos, p	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainage Dry-Sear Crayfish (C3) Saturatio Stunted (6) Geomory FAC-Net	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2) Utral Test (D5)
Process Process Process Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ausparsely Vegetated Coffield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Social Company Strings Secribe Recorded Data (st	erial Imagery (ncave Surface Yes Yes Yes	Water-S Aquatic Aquatic True Aq Hydroge Oxidized Presenc Recent I Thin Mu (B7) Gauge of (B8) Other (E No Depth (No Depth (No Depth (tained Lea Fauna (B1) uatic Plants en Sulfide C d Rhizosph e of Reduc fron Reduc ck Surface or Well Data explain in R finches): finches): al photos, p	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface Drainage Dry-Sear Crayfish (C3) Saturatio Stunted (6) Geomory FAC-Net	e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Project/Site: Byron Solar	City/County: Dodge	Sampling Date: 2020-10-31
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: WB-10 Wet
Investigator(s): David Kuhlmann	Section, Township, Ra	ange: Section 10, T106N, R16W
Landform (hillslope, terrace, etc.): Swale		(concave, convex, none): Concave
Slope (%): 2-5 Lat: 44.0018311	Long: -92.722176	
Soil Map Unit Name: Readlyn silt Ioam, 1 to 3 percer		
Are climatic / hydrologic conditions on the site typical for this		
Are Vegetation, Soil, or Hydrology sig		"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na		eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	C1 15 6 8 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		d Area
Hydric Soil Present? Yes V No Wetland Hydrology Present? Yes V No		
Remarks:		····
Heavily tilled field mixing A And B horizons. Bou	ndary drawn hased on we	etland signatures in aerial Imagery, Elevation
slopes down to the northwest, loses hydrology	•	
VEGETATION – Use scientific names of plants.		
	Absolute Dominant Indicator	Dominance Test worksheet:
00 ft	% Cover Species? Status	Number of Dominant Species
1	200	That Are OBL, FACW, or FAC: 0 (A)
2		Total Number of Dominant
3		Species Across All Strata: 0 (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size 15 ft r)	= Total Cover	Prevalence Index worksheet:
1		Total % Cover of: Multiply by:
2		OBL species 0 x 1 = 0
3.		FACW species 0 x 2 = 0
4,		FAC species 0 x 3 = 0
5.		FACU species 0 x 4 = 0
A	= Total Cover	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)		Column Totals: 0 (A) 0 (B)
1		
2,		Prevalence Index = B/A = 0.0
3		Hydrophytic Vegetation Indicators:
4		1 - Rapid Test for Hydrophytic Vegetation
5		2 - Dominance Test is >50%
6		3 - Prevalence Index is ≤3.01
7		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8		✓ Problematic Hydrophytic Vegetation¹ (Explain)
9,		
10		¹Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	= Total Cover	be present, unless disturbed or problematic.
		Hydranhydia
1.		
1		Hydrophytic Vegetation
	= Total Cover	

SOIL Sampling Point: WB-10 Wet

	70 /	OYR 5/8	5	Type ¹	Loc2	Texture	Remarks
0 - 40 10YR 4/2)YR 5/8	5				Remarks
Type: C=Concentration, D=Deple	25 10)YR 5/8	5			Clay	
			-	<u>C</u>	M	Clay	Mixed matrix
				-	_	-	
							- 1
			1		_	-	
							-
lydric Soil Indicators:	etion, RM=Re	duced Matrix, M	S=Maske	d Sand Gr	ains.		on: PL=Pore Lining, M=Matrix.
						Indicato	rs for Problematic Hydric Soils ³ :
_ Histosol (A1)				atrix (S4)			st Prairie Redox (A16)
Histic Epipedon (A2)			Redox (S				Surface (S7)
Black Histic (A3)			d Matrix (the second secon			Manganese Masses (F12)
Hydrogen Sulfide (A4)				ineral (F1)			Shallow Dark Surface (TF12)
Stratified Layers (A5) 2 cm Muck (A10)			Gleyed N ed Matrix	latrix (F2)		Othe	er (Explain in Remarks)
2 cm Muck (A10) Depleted Below Dark Surface	/A44V		Dark Surf				
Thick Dark Surface (A12)	(411)			urface (F7	Y	3Indicate	ors of hydrophytic vegetation and
Sandy Mucky Mineral (S1)			Depression	The state of the s	,		and hydrology must be present,
5 cm Mucky Peat or Peat (S3)	,		E 0 P 1 D 0 0 1	,,,,			ss disturbed or problematic
Restrictive Layer (if observed):						T	
Type:						1000	
Depth (inches):						Hydric Sc	oil Present? Yes No
Remarks:		_					
							e of deleted matrix
VDPOLOGY							
Vetland Hydrology Indicators:		aha ah ah libat a				Canada	
Vetland Hydrology Indicators: Primary Indicators (minimum of one	e is required:		and a fire of the	/00/			dary Indicators (minimum of two require
Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1)	e is required:	Water-St	ained Lea			S	dary Indicators (minimum of two require urface Soil Cracks (B6)
Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	e is required:	Water-St	ained Lea auna (B1)	3)		St	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10)
Netland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	e is required:	Water-St Aquatic F True Aqu	ained Lea auna (B1: atic Plants	3) s (B14)		Si Di Di	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2)
Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	e is required:	Water-St. Aquatic F True Aqu Hydroger	ained Lea auna (B1; atic Plants Sulfide C	3) s (B14) odor (C1)	ijna Ponto	Si Di Di Ci	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Netland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	e is required:	Water-St. Aquatic F True Aqu Hydroger Oxidized	ained Lea auna (B1) atic Plants Sulfide C Rhizosphi	3) s (B14) Odor (C1) eres on Liv	The second second	Si Di Di Ci . (C3) <u>v</u> Sa	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Netland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	e is required:	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea auna (B1; atic Plants Sulfide C Rhizospho of Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C	4)	Si Di Ci Ci Si	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1)
Netland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	e is required:	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea auna (B1: atic Plants Sulfide C Rhizosphi of Reduct on Reduct	3) s (B14) Odor (C1) eres on Liv ed Iron (Cotion in Tille	4)	Si Di Ci Si Si Si 6) G	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea auna (B1; atic Plants Sulfide C Rhizosphi of Reduct on Reduct k Surface	3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7)	4)	Si Di Ci Si Si Si 6) G	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1)
Netland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im	nagery (B7)	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lear auna (B1; atic Plants Sulfide C Rhizospho of Reduct on Reduct k Surface Well Data	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4)	Si Di Ci Si Si Si 6) G	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S	nagery (B7)	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lear auna (B1; atic Plants Sulfide C Rhizospho of Reduct on Reduct k Surface Well Data	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4)	Si Di Ci Si Si Si 6) G	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2)
Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave Stried Observations:	nagery (B7) Surface (B8)	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc	ained Lear auna (B1; atic Plants Sulfide C Rhizospho of Reduction Reduction k Surface Well Data splain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4)	Si Di Ci Si Si Si 6) G	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2)
Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave Stield Observations: Surface Water Present?	nagery (B7) Surface (B8)	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex	ained Lear auna (B1; atic Plants Sulfide C Rhizosphi of Reduct on Reduct k Surface Well Data cplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4)	Si Di Ci Si Si Si 6) G	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave Selected Observations: Surface Water Present? Ves Saturation Present? Yes	nagery (B7) Surface (B8) s No s No	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex	ained Lear auna (B1; atic Plants Sulfide C Rhizospho of Reduct on Reduct k Surface Well Data cplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4) d Soils (C	Si Di Ci Si Si 6) Si F/	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2)
Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave Selected Observations: Surface Water Present? Vestoriation Present? Vestoriation Present? Vestoriation Present? Vestoriation Present? Vestoriation Present? Vestoriation Present? Vestoriation Present? Vestoriation Present? Vestoriation Present? Vestoriation Present? Vestoriation Present?	nagery (B7) Surface (B8) s No.s No.s No.	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc Gauge or Other (Ex	ained Lear auna (B1; atic Plants Sulfide C Rhizosph of Reduct on Reduct k Surface Well Data cplain in R nches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Si Di Ci Si Si Si Fi	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2) AC-Neutral Test (D5)
Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave Serial Observations: Surface Water Present? Vestinctudes capillary fringe) Describe Recorded Data (stream general indicators)	nagery (B7) Surface (B8) s No.s No.s No.	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc Gauge or Other (Ex	ained Lear auna (B1; atic Plants Sulfide C Rhizosph of Reduct on Reduct k Surface Well Data cplain in R nches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Si Di Ci Si Si Si Fi	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2) AC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes	nagery (B7) Surface (B8) s No.s No.s No.	Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc Gauge or Other (Ex	ained Lear auna (B1; atic Plants Sulfide C Rhizosph of Reduct on Reduct k Surface Well Data cplain in R nches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Si Di Ci Si Si Si Fi	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) tunted or Stressed Plants (D1) eomorphic Position (D2) AC-Neutral Test (D5)

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020-10-31
Applicant/Owner: EDF Renewables			6 1 7 7		Sampling Point: WB-11 Up
Investigator(s): David Kuhlmann			Section, Township, Ra	ange: Section 10, T106	6N, R16W
Landform (hillslope, terrace, etc.): Hills				(concave, convex, none):	
Slope (%): 2-5 Lat: 43.993	3431				
Soil Map Unit Name: Clyde-Floyd o				NWI classific	2,1,1,1,1
Are climatic / hydrologic conditions on t					
Are Vegetation, Soil, or					present? Yes No
Are Vegetation, Soil, or				eeded, explain any answe	
SUMMARY OF FINDINGS - A					
Hydrophytic Vegetation Present?	Yes			Same and with each	. Tips: 210 controct 23.
Hydric Soil Present?	Yes V		Is the Sample	d Area	
Wetland Hydrology Present?	- 10 O		within a Wetla	nd? Yes	No
Remarks:					
Harvested and tilled co	rn field, l	ocated up	slope of wetla	and sample.	
VEGETATION – Use scientific	names of pla	ants			
		Absolute	Dominant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30 ft r			Species? Status	Number of Dominant Sp That Are OBL, FACW,	
2.					
3.				Total Number of Domin Species Across All Stra	•
4					
5				Percent of Dominant Sp That Are OBL, FACW,	
- World Warring (1997)	5 ft r		= Total Cover		
Sapling/Shrub Stratum (Plot size 1		- "		Prevalence Index wor Total % Cover of:	
1					x 1 = 0
2					x 2 = 0
3				FAC species 0	x 3 = 0
5.				FACU species 0	x 4 = 0
5.			= Total Cover	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r)		10101 00701		(A) 0 (B)
1				1.4	
2,				Prevalence Index	
3				Hydrophytic Vegetation	
4					Hydrophytic Vegetation
5.				2 - Dominance Tes	
6			FACU	3 - Prevalence Inde	
7,				4 - Morphological A	Adaptations ¹ (Provide supporting sor on a separate sheet)
8					phytic Vegetation (Explain)
9,				2- 10-10-10-10-11-12-11-11-11-11-11-11-11-11-11-11-11-	- The real of the second secon
10					I and wetland hydrology must
Woody Vine Stratum (Plot size: 30	ft r		= Total Cover	be present, unless distu	
1				Hydrophytic	
				Vegetation	
2.					s No
2,			= Total Cover	Present? Yes	SNO

Sampling Point: WB-11 Up

	Matrix			ox Feature		1 2	41	67. 4
(inches) 0 - 24	Color (moist) 10YR 2/1	100	Color (moist)	%	_Type ¹	_Loc²		Remarks
24 ⁻ 34	10YR 2/1	90	10YR 3/4	10	С	M	Silty clay	
34 - 40	10YR 4/2	80	10YR 5/8	20	C	M	Silty clay	
	101K 4/2	- 80	101K 3/8					
lydric Soil I Histosol Histic Ep Black His Hydroge Stratified 2 cm Mu Depleted Thick Da Sandy M 5 cm Mu	ndicators: (A1) opedon (A2) stic (A3) n Sulfide (A4) I Layers (A5)	ce (A11)	Sandy Strippe Loamy Loamy Deplet Redox Deplet	Gleyed M Redox (S ed Matrix (Mucky M Gleyed M ed Matrix Dark Suri	atrix (S4) 5) S6) ineral (F1) fatrix (F2) (F3) face (F6) urface (F7)		Indicators for I Coast Prair Dark Surface Iron-Manga Very Shallo Other (Expl	nnese Masses (F12) ow Dark Surface (TF12) lain in Remarks) ydrophytic vegetation and drology must be present, urbed or problematic.
Type: Depth (inc	ches):						nyuric Soil Pres	Sentr TesNU
Type: Depth (inc Remarks:	GY						nyuric Soil Pres	SERTE TESNU
Type: Depth (inc Remarks: YDROLOG Vetland Hyd	GY drology Indicators							
Type: Depth (inc Remarks: YDROLO Vetland Hyc Primary Indic	GY drology Indicators ators (minimum of		uired; check all that a		Ven (PRV		Secondary In	dicators (minimum of two require
Type: Depth (inc Remarks: YDROLO Vetland Hyc Primary Indic Surface	GY drology Indicators ators (minimum of Water (A1)		Water-St	ained Lea			Secondary In Surface S	dicators (minimum of two required
Type: Depth (inc Remarks: YDROLO Vetland Hyc Surface V High Wa	GY drology Indicators ators (minimum of Water (A1) ter Table (A2)		Water-St Aquatic F	ained Lea auna (B1)	3)		Secondary In Surface S Drainage	idicators (minimum of two required Soil Cracks (B6) Patterns (B10)
Type: Depth (inc Remarks: YDROLOG Vetland Hyd Simary Indic Surface \(\) High Wa Saturatio	GY drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3)		Water-St Aquatic F True Aqu	ained Lea auna (B1) atic Plant	3) s (B14)		Secondary In Surface S Drainage Dry-Seas	idicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Type: Depth (included) Permarks: YDROLOG Vetland Hydrimary Indicute Surface High Wa Saturatic Water M	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)		Water-St Aquatic F True Aqu Hydroger	ained Lea auna (B1) atic Plants Sulfide (3) s (B14)	ing Roots	Secondary In Surface S Drainage Dry-Seas Crayfish	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)
Type: Depth (included) Permarks: YDROLOG Vetland Hyd Surface High Wa Saturation Water M. Sedimen	GY drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3)		Water-St Aquatic F True Aqu Hydroger Oxidized	ained Lea auna (B1) atic Plants Sulfide C Rhizosph	3) s (B14) Odor (C1) eres on Liv		Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Type: Depth (included in the content of the c	GY drology Indicators actors (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)		Water-St Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea fauna (B1) latic Plants n Sulfide C Rhizosph e of Reduc	3) s (B14) Odor (C1)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Type: Depth (included in the content of the c	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3)		Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea fauna (B1) latic Plants n Sulfide C Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C4) tion in Tille	4)	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted (6) Geomory	dicators (minimum of two required Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Type: Depth (included in the content of the c	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4)	one is req	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea Fauna (B1) ratic Plants n Sulfide C Rhizosph e of Reduc on Reduc	s (B14) odor (C1) eres on Liv ed Iron (C4 tion in Tille (C7)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted (6) Geomory	dicators (minimum of two required Soil Cracks (B6) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C9) or Stressed Plants (D1) obtic Position (D2)
Type:	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one is required in the second	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea Fauna (B1) Patic Plants Sulfide C Rhizosph of Reduction Reduction k Surface	3) s (B14) Odor (C1) eres on Liv ed Iron (C4) tion in Tille (C7) a (D9)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted (6) Geomory	dicators (minimum of two required Soil Cracks (B6) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C9) or Stressed Plants (D1) obtic Position (D2)
Type: Depth (incline emarks: TDROLOG lettand Hydrimary Indice High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial of Vegetated Concav	one is required in the second	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea auna (B1) atic Plants Sulfide C Rhizosph of Reduction Reduction k Surface	3) s (B14) Odor (C1) eres on Liv ed Iron (C4) tion in Tille (C7) a (D9)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted (6) Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Type: Depth (incline emarks: //DROLOG fetland Hydrimary Indicate	GY drology Indicators sators (minimum of the ter Table (A2) on (A3) arks (B1) on the Deposits (B2) cosits (B3) of the Crust (B4) cosits (B5) on Visible on Aerial Vegelated Concavivations:	one is required in the second	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea auna (B1) autic Plants Sulfide C Rhizosph of Reduction Reduction k Surface well Data coplain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C4) tion in Tille (C7) a (D9)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted (6) Geomory	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Type: Depth (incline incline drology Indicators sators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial of Vegetated Concavivations:	one is required in the second of the second	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge or (B8) Other (Ex	ained Lea auna (B1) attic Plants Sulfide C Rhizosph of Reduction Reduction k Surface Well Data (plain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C4) tion in Tille (C7) a (D9)	4)	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted (6) Geomory	dicators (minimum of two required Soil Cracks (B6) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C9) or Stressed Plants (D1) obtic Position (D2)	
Type: Depth (inc Remarks: YDROLOG Vetland Hyc Vetland Hyc Surface Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Observious Surface Water Table Saturation Princludes cap	GY drology Indicators sators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present? Present?	Imagery (//e Surface Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex No Depth (in No Depth (in)	ained Lea auna (B1) atic Plants a Sulfide C Rhizosph e of Reduct on Reduct on Reduct k Surface well Data (plain in R nches); nches); nches);	3) s (B14) Odor (C1) eres on Liv ed Iron (C4 tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted (6) Geomory FAC-Neu	dicators (minimum of two requires Soil Cracks (B6) a Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Type:	drology Indicators ators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial vegetated Concaverations: er Present? Present? present.	Imagery (//e Surface Yes Yes Yes n gauge, n	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc B7) Gauge of (B8) Other (Ex	ained Leater auna (B1) aun	3) s (B14) Odor (C1) eres on Liv ed Iron (C4 tion in Tille (C7) a (D9) emarks)	4) d Soils (C	Secondary In Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted (6) Geomory FAC-Neu	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Project/Site: Byron Solar				City/Co	ounty: Dodge		Sampling Dat	te 2020-10-3
Applicant/Owner: EDF Renewables						State: Minnesota		nt. WB-11 Wet
Investigator(s): David Kuhlmann				Section	n, Township, Ra	nge: Section 10, T10	6N, R16W	
Landform (hillslope, terrace, etc.): Swa						(concave, convex, none)		
Slope (%): 0-2 Lat. 43.993	391			Long:	-92.726144		Datum: NAD	83
Soil Map Unit Name: Clyde-Floyd c		κ, 1 to	4 percent sl	lopes	(M518B)	NWI classific	cation: R4SB0	С
Are climatic / hydrologic conditions on the								
Are Vegetation, Soil, or						'Normal Circumstances"		No.
Are Vegetation, Soil, or						eeded, explain any answe		
SUMMARY OF FINDINGS - A								
Hydrophytic Vegetation Present?	Yes	/	No			1 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		
Hydric Soil Present?	Yes	_	No		Is the Sampled			
Wetland Hydrology Present?	Yes	'	No		within a Wetlan	nd? Yes	No	
Remarks								
Tilled corn field								
VEGETATION – Use scientific r	names	of plar	nts.					
Tree Stratum (Plot size: 30 ft r	v		Absolute		inant Indicator	Dominance Test work	ksheet;	
1.				Spec	ies? Status	Number of Dominant S That Are OBL, FACW,		(A)
2.				_		That Are OBL, FACV.	OFFAC	(4)
3.						Total Number of Domin Species Across All Stra		(B)
4.								(8)
5						Percent of Dominant S That Are OBL, FACW,		(A/B)
16	ft v			= Tota	l Cover	1		V-2-
Sapling/Shrub Stratum (Plot size 15						Prevalence Index wor		Marie E. Marie
1)				-		Total % Cover of:	x 1 = (Itiply by:
2				-			x 1 = 0	
3				-		FAC species 0	x3=	
4,				_		FACU species 0	x4= 0	
5				- Tota	l Cover	UPL species 0	x5=	
Herb Stratum (Plot size: 5 ft r)		-	- Tuta	Cover	Column Totals: 0	(A)	
1.						1 1 4 4 4		270
2,				_		Prevalence Index	c = B/A = 0.0	_
3						Hydrophytic Vegetati		
4				_		1 - Rapid Test for		egetation
5				_		2 - Dominance Tes		
6						3 - Prevalence Ind		
7						4 - Morphological / data in Remark		
8				-		✓ Problematic Hydro		
9,				-				A SOLETHIN
40				-		¹ Indicators of hydric so	il and wetland l	hydrology must
10				= Tota	l Cover	be present, unless dist		
(A)	ft r	1						
Woody Vine Stratum (Plot size: 30						Hydrophytic		
Woody Vine Stratum (Plot size: 30						Hydrophytic Vegetation	.,	
Woody Vine Stratum (Plot size: 30					l Cover	Vegetation	es_ No	i

SOIL Sampling Point: WB-11 Wet

(inches) Color (mais)	ix		edox Featur			120.00	45.40
(inches) Color (moist		Color (moist)		Type ¹	_Loc²	Texture	Remarks
0 - 24 10YR 2/1	80	10YR 3/4	20	<u> </u>	М	Clay	
-							
		-				-	
-	_				_		
		-					
-							
Type: C=Concentration, D=	Depletion, RM	1=Reduced Matrix	MS=Maske	ed Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
lydric Soil Indicators:							Problematic Hydric Soils ³ :
Histosol (A1)		San	dy Gleyed N	latrix (S4)		Coast Pra	nirie Redox (A16)
Histic Epipedon (A2)			dy Redox (S			Dark Surfa	
Black Histic (A3)		Strip	ped Matrix	(S6)			ganese Masses (F12)
Hydrogen Sulfide (A4)		Loan	ny Mucky M	ineral (F1)		The second secon	low Dark Surface (TF12)
Stratified Layers (A5)			ny Gleyed N			Other (Ex	plain in Remarks)
2 cm Muck (A10)	2 11.00		leted Matrix				
Depleted Below Dark Su			ox Dark Sur			Si de la la la la la la la la la la la la la	en grant and a surface to the
Thick Dark Surface (A12 Sandy Mucky Mineral (S	,		eted Dark S ox Depressi)		hydrophytic vegetation and ydrology must be present,
5 cm Mucky Peat or Pea			ox Depressi	ons (Fo)			sturbed or problematic
Restrictive Layer (if observ						unicas dis	number of problematic
							The second second
Type:							wanto Van V
Type:						Hydric Soil Pre	esent? Yes No
Depth (inches):Remarks:	darker d	ue to great	er soil r	moistu	re wit		than nearby upland
Depth (inches): Remarks: Tilled soil visibly (darker d	ue to great	er soil r	moistu	re wit		
Depth (inches):Remarks: Tilled soil visibly of the process		ue to great	er soil r	moistu	re wit		
Depth (inches): Remarks: Tilled soil visibly of the control of the contro	ors:			noistu	re wit	hin wetland	than nearby upland
Depth (inches):	ors:	ired; check all tha	t apply)		re wit	hin wetland	than nearby upland
Depth (inches):	ors:	iired: check all tha	t apply) Stained Lea	ves (B9)	re wit	hin wetland Secondary Surface	than nearby upland Indicators (minimum of two required
Depth (inches):	ors:	uired: check all tha Water- Aquati	t apply) Stained Lea c Fauna (B1	ves (B9) 3)	re wit	hin wetland Secondary Surface Drainag	than nearby upland Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10)
Depth (inches):	ors:	iired: check all tha Water- Aquati True A	t apply) Stained Lea c Fauna (B1 quatic Plant	ves (B9) 3) s (B14)	re wit	Secondary Surface Drainag Dry-Se	than nearby upland Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Depth (inches):	ors:	iired: check all tha Water- Aquati True A	t apply) Stained Lea Fauna (B1 quatic Plant len Sulfide (ves (B9) 3) s (B14) Odor (C1)		Secondary Surface Drainage Crayfis	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8)
Depth (inches):	ors:	iired: check all tha Water- Aquati True A Hydrog Oxidize	t apply) Stained Lea c Fauna (B1 quatic Plant gen Sulfide (ad Rhizosph	ves (B9) 3) s (B14) Odor (C1) eres on Liv	ing Roots	Secondary Surface Drainage Crayfisi S(C3) Saturat	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (inches):	ors:	uired: check all tha Water- Aquati- True A Hydros Oxidize	t apply) Stained Lea Fauna (B1 quatic Plant gen Sulfide (ed Rhizosph ce of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Liv ced Iron (C	ring Roots	Secondary Surface Drainag Dry-See Crayfisi s (C3)	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) dion Visible on Aerial Imagery (C9) dior Stressed Plants (D1)
Depth (inches):	ors:	uired: check all that Water- Aquatic True A Hydrog Oxidize Preser Recen	t apply) Stained Lea Fauna (B1 quatic Plant len Sulfide (led Rhizosph ice of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Liv eed Iron (C	ring Roots	Secondary Surface Drainag Dry-Se Crayfist Stunted Stunted	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches):	ors: of one is requ	uired: check all that Water- Aquatic True A Hydrog Oxidize Preser Recen Thin M	t apply) Stained Lea Fauna (B1 quatic Plant gen Sulfide (ad Rhizosph ice of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	ring Roots	Secondary Surface Drainag Dry-Se Crayfist Stunted Stunted	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) dion Visible on Aerial Imagery (C9) dior Stressed Plants (D1)
Depth (inches):	ors: of one is requ rial Imagery (E	uired: check all that Water- Aquati True A Hydrog Oxidize Preser Recen Thin M	t apply) Stained Lea Fauna (B1 quatic Plant len Sulfide (led Rhizosph ice of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	ring Roots	Secondary Surface Drainag Dry-Se Crayfist Stunted Stunted	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches):	ors: of one is requ rial Imagery (E	uired: check all that Water- Aquati True A Hydrog Oxidize Preser Recen Thin M	t apply) Stained Lea c Fauna (B1 quatic Plant ten Sulfide (d Rhizosph ce of Reduc l Iron Reduc uck Surface or Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	ring Roots	Secondary Surface Drainag Dry-Se Crayfist Stunted Stunted	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches): Remarks: Tilled soil visibly of the primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Con Field Observations:	ors: of one is requ rial Imagery (E cave Surface	ired: check all that Water- Aquati True A Hydrog Oxidize Preser Recen Thin M 37) Gauge (B8) Other	t apply) Stained Lea Fauna (B1 quatic Plant len Sulfide (ed Rhizosph ice of Reduc Uron Reduc uck Surface or Well Dat Explain in R	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	ring Roots	Secondary Surface Drainag Dry-Se Crayfist Stunted Stunted	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches):	ors: of one is required in the second	ired: check all that Water- Aquati True A Hydrog Oxidize Preser Recen Thin M 37) Gauge (B8) Other	t apply) Stained Lea c Fauna (B1 quatic Plant gen Sulfide (ad Rhizosph ice of Reduc iron Reduc uck Surface or Well Dat Explain in R	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	ring Roots	Secondary Surface Drainag Dry-Se Crayfist Stunted Stunted	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches):	ors: of one is requ rial Imagery (E cave Surface	wired: check all that Water- Aquati True A Hydrog Oxidiz Preser Recen Thin M 37) Gauge (B8) Other No Depth	t apply) Stained Lea Fauna (B1 quatic Plant len Sulfide (ed Rhizosph ice of Reduc Uron Reduc uck Surface or Well Dat Explain in R	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	ving Roots 4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfist Stunted Stunted	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Depth (inches): Remarks: Tilled soil visibly of the property	ors: of one is required limagery (Ecave Surface Yes Yes Yes	wired: check all that Water- Aquatic True A Hydrog Oxidize Preser Recen Thin M 37) Gauge (B8) Other No Depth No Depth	t apply) Stained Lea Fauna (B1 quatic Plant gen Sulfide (ad Rhizosph ice of Reduc Uron Reduc uck Surface or Well Dat Explain in R (inches): (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) Remarks)	ving Roots 4) ad Soils (C	Secondary Surface Drainag Dry-Se Crayfisi S (C3) Saturat Stunted FAC-Ne	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Depth (inches):	ors: of one is required limagery (Ecave Surface Yes Yes Yes	wired: check all that Water- Aquatic True A Hydrog Oxidize Preser Recen Thin M 37) Gauge (B8) Other No Depth No Depth	t apply) Stained Lea Fauna (B1 quatic Plant gen Sulfide (ad Rhizosph ice of Reduc Uron Reduc uck Surface or Well Dat Explain in R (inches): (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) Remarks)	ving Roots 4) ad Soils (C	Secondary Surface Drainag Dry-Se Crayfisi S (C3) Saturat Stunted FAC-Ne	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) iron Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Depth (inches):	ors: of one is required limagery (Ecave Surface Yes Yes Yes	wired: check all that Water- Aquatic True A Hydrog Oxidize Preser Recen Thin M 37) Gauge (B8) Other No Depth No Depth	t apply) Stained Lea Fauna (B1 quatic Plant gen Sulfide (ad Rhizosph ice of Reduc Uron Reduc uck Surface or Well Dat Explain in R (inches): (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) Remarks)	ving Roots 4) ad Soils (C	Secondary Surface Drainag Dry-Se Crayfisi S (C3) Saturat Stunted FAC-Ne	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) iron Visible on Aerial Imagery (C9) of or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (AV	Project/Site: Byron Solar			City/Cou	nty: Dodge		Sam	pling Date	2020	-10-31
Landom (hillslope, terrace, etc.) Swale Losal relief (concave, convex, none) Slope (%), 2-5 Lat 43.991249 Long: -92.724558 Nay Unth Name. Clyde-Floyd complex, 1 to 4 percent slopes (M518B) NWI classification. R4SBC Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology in anturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation Soil or Hydrology in anturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation Soil or Hydrology in anturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No within a Wetland? Yes No Wetland Hydrology in No within a Wetland? Yes No within a Wetland? Yes No Wetland Hydrology in No No Wetland Hydrology in No No	Applicant/Owner: EDF Renewable	s				State: Minne	esota Sam	pling Poin	WB-1	I2 Up
Landom (hillslope, terrace, etc.) Swale Losal relief (concave, convex, none) Slope (%), 2-5 Lat 43.991249 Long: -92.724558 Nay Unth Name. Clyde-Floyd complex, 1 to 4 percent slopes (M518B) NWI classification. R4SBC Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology in anturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation Soil or Hydrology in anturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation Soil or Hydrology in anturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No within a Wetland? Yes No Wetland Hydrology in No within a Wetland? Yes No within a Wetland? Yes No Wetland Hydrology in No No Wetland Hydrology in No No	Investigator(s): David Kuhlmann			Section,	Township, Ra	nge: Section 15,	T106N, R	R16W		
Soil Map Unit Name: Clyde-Floyd complex, 1 to 4 percent slopes (M518B) Are climate: / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, ethydrophytic Vegetation Present? Yes No Is the Sampled Area	Landform (hillslope, terrace, etc.): Sv						_			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology instinued for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology instinued for the first of the first o	Slope (%): 2-5 Lat: 43.99	1249		Long:	92.724558		Datu	m: NAD	83	
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Norway Septentian Present? Yes No Within a Wetland? Are Normal Circumstances in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, ethydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland? Yes	Soil Map Unit Name: Clyde-Floyd	complex, 1 to	o 4 percent sl	opes (I	M518B)	NWI cla	assification:	R4SBC		
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Norway Squattation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, ethydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland? Yes No We	Are climatic / hydrologic conditions on	the site typical f	or this time of year	ar? Yes	V No	(If no, explai	n in Remark	ks.)		
Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrophytic Vegetation Present? Remarks: Sample located further up gradient within swale in area that transitions from reed canary grass to smooth brome VEGETATION — Use scientific names of plants. Tree Stratum (Plot size: 30 ft r)									V 1	Vo
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, e Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland? Yes No Wetl										
Hydrophytic Vegetation Present? Yes										es, etc.
Is the Sampled Area Wetland Hydrology Present? Yes No Within a Wetland? Yes No		to the distributed by	7497676		7,9,		572571			
Wetland Hydrology Present? Yes	[2] [1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	Yes V	No	ls	the Sampled					
Sample located further up gradient within swale in area that transitions from reed canary grass to smooth brome VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: _30 ft r _) Absolute _ McGover	Wetland Hydrology Present?			v	vithin a Wetlar	id? Yes		No		
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft r)	Remarks									
Absolute % Cover Species 7 Status Number of Dominant Species Num	Sample located further up gra	dient within	swale in area	that tr	ansitions fro	om reed canary	grass to	smooth	brome	
Absolute % Cover Species 7 Status Number of Dominant Species Num										
Number of Dominant Species That Are OBL, FACW, or FAC: 1	VEGETATION – Use scientific	names of pla								
That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 20 x2 = 40 FAC species 0 x3 = 0 FACU species 0 x3 = 0 FACU species 80 x4 = 320 UPL species 80 x4 = 320 UPL species 80 x5 = 0 Column Totals: 100 (A) 360 (B) Prevalence Index = B/A = 3.6 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation	Tree Stratum (Plot size: 30 ft r	1				377001670136	The state of the s			
2.			70 00401	Ороспо	o: Otatoo					(A)
Species Across All Strata 2 (B)										- 4.37
### Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (AV) ### Sapling/Shrub Stratum (Plot size: 15 ft r) ### Stratum (Plot size: 15 ft r) ### Bromus inermis						The property of the party of the first of the party of th		2		(B)
That Are OBL, FACW, or FAC: 50 (AV Prevalence Index worksheet: Total % Cover of; Multiply by; OBL species 0 x1 = 0 FACW Species 20 x2 = 40 FAC Species 0 x3 = 0 FACW Species 0 x4 = 320 FAC Species 0 x4 = 320 FAC Species 0 x5 = 0 FACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Species 0 x5 = 0 TACU Sp	4									- 326
Sapling/Shrub Stratum (Plot size 15 ft r)	5,									(A/B)
Total % Cover of:		15 ft r	W 1	= Total	Cover	Descriptions Indo				
2.									inly by:	
3.				-						-
FAC species O x 3 = 0	3			_						
5. = Total Cover FACU species 0 x 4 = 320 Herb Stratum (Plot size: 5 ft r 1) 80	4									
Herb Stratum (Plot size: 5 ft r) Bromus inermis 80	5.						30			
Bromus inermis 80	A			= Total	Cover	the first part and the same and the		x.5 = 0		
Phalaris arundinacea 20 FACW Prevalence Index = B/A = 3.6 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) 9	Herb Stratum (Plot size: 5 ft r)	90	.,	EACH	Column Totals:	100	(A) 3	60	(B)
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) 9 - FACU FACU 100% = Total Cover 1 - Rapid Test for Hydrophytic Vegetation 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) - Problematic Hydrophytic Vegetation¹ (Explain) 1 - Hydrophytic Vegetation 1 - Hydrophytic Vege				_		Provolonos	Indox = D//	3.6		
4	P			_	- FACVV	III	State of Bridge	100		_
5				-					etation	
6	1.7-			_					19,000	
7 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) 9 FACU 10										
8 data in Remarks or on a separate sheet) 9 Problematic Hydrophytic Vegetation¹ (Explain) 10 ** Woody Vine Stratum** (Plot size: 30 ft r) 1 ** Hydrophytic Vegetation* Hydrophytic Vegetation ** Hydrophytic Vegetation**				-	7	4 - Morpholog	gical Adapta	ations (Pr	ovide su	pporting
9					= = =					
10					FACU	Problematic I	Hydrophytic	Vegetatio	n' (Expla	ain)
Woody Vine Stratum (Plot size: 30 ft r) be present, unless disturbed or problematic. 1. Hydrophytic Vegetation									474-50	
2. Vegetation	Woody Vine Stratum (Plot size: 30) ft r	100%	= Total	Cover					must
2. Vegetation				-		Hydrophytic				
	2,					Vegetation Present?	Voc	Ne	~	
Remarks: (Include photo numbers here or on a separate sheet.)		W		= Total	Cover	riesenti	Tes	NO		

SOIL Sampling Point: WB-12 Up

O - 24 10YR 2/1 95 10YR 3/4 5 C M Silt Loam	6/0.40	43400	1 2 -		ox Feature			Matrix	Depth
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Histosol (A1) Sandy Gleyed Matrix (S4) Coasts Prairie Redox Black Histosol (A1) Sandy Redox (S5) Dark Surface (S7) Inn-Manganese Matrix (S6) Loarny Mulcely Mineral (F1) Very Shallow Dark Stratified Layers (A5) Loarny Mulcely Mineral (F1) Very Shallow Dark Stratified Layers (A5) Loarny Mulcely Mineral (F1) Very Shallow Dark Stratified Layers (A5) Loarny Mulcely Mineral (F1) Very Shallow Dark Stratified Layers (A6) Loarny Mulcely Mineral (F1) Very Shallow Dark Stratified Layers (A6) Loarny Mulcely Mineral (F2) Other (Explain in Re Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Wetland Hydrology mulces disturbed or in the Stratific Very Shallow Dark Stratific Very Sha	Remarks	Texture		Type ¹	%	Color (moist)	%	Color (moist)	(inches)
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Histosol (A1)									-
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Landform (hillstope, terrace, etc.): Swale Slope (%): 0-2	No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) g point locations, transects, important features, etc. se Sampled Area in a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Dominance Test worksheet:
Landform (hillstope, terrace, etc.): Swale Slope (%): 0-2	Local relief (concave, convex, none): Concave Datum: NAD 83 NAD 83 NWI classification: R4SBC No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) g point locations, transects, important features, etc. se Sampled Area in a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status
Landform (hillstope, terrace, etc.): Swale Slope (%): 0-2	Local relief (concave, convex, none): Concave Datum: NAD 83 NAD 83 NWI classification: R4SBC No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) g point locations, transects, important features, etc. se Sampled Area in a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status
Soil Map Unit Name: Clyde-Floyd complex, 1 to 4 percent slopes (M51 Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) g point locations, transects, important features, etc. e Sampled Area in a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B)
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) g point locations, transects, important features, etc. se Sampled Area in a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status
Are Vegetation, Soil, or Hydrology significantly disturbed? Are Vegetation, Soil, or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present?	Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) g point locations, transects, important features, etc. le Sampled Area lin a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status
Are Vegetation, Soil, or Hydrology significantly disturbed? Are Vegetation, Soil, or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present?	Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) g point locations, transects, important features, etc. le Sampled Area lin a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status
Are Vegetation, Soil, or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present?	(If needed, explain any answers in Remarks.) g point locations, transects, important features, etc. e Sampled Area in a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Swale, distinguished from other upland swales based on based on transition from reed canary grass in wetland to smooth of the stratum (Plot size: 30 ft r) Absolute	g point locations, transects, important features, etc. le Sampled Area lin a Wetland? Yes No In predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status Dominance Test worksheet:
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Swale, distinguished from other upland swales based on based on transition from reed canary grass in wetland to smooth based on transition from reed canary grass in wetland to smooth based on transition from reed canary grass in wetland to smooth by the stratum (Plot size: 30 ft r)	in a Wetland? Yes No predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status
Hydric Soil Present? Wetland Hydrology Present? Wetland Swale, distinguished from other upland swales based on based on transition from reed canary grass in wetland to smooth of the stratum (Plot size: 30 ft r) 1	predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status
Remarks: Wetland swale, distinguished from other upland swales based on based on transition from reed canary grass in wetland to smooth to smooth to see the scientific names of plants. Tree Stratum (Plot size: 30 ft r)	in predominance of reed canary grass, boundary drawn brome in upland portion of swale upslope Indicator Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B)
Wetland swale, distinguished from other upland swales based on based on transition from reed canary grass in wetland to smooth vegetation. Vegetation – Use scientific names of plants. Tree Stratum (Plot size: 30 ft r)	Indicator Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 1 (B)
based on transition from reed canary grass in wetland to smooth VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft r)	Indicator Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 1 (B)
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft r)	Indicator Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1
Tree Stratum (Plot size:	Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B)
Tree Stratum (Plot size: 30 ft r) % Cover Species? 1. 2. 3. 4. 5. = Total Cover Species? Sapling/Shrub Stratum (Plot size: 15 ft r) 1. = Total Cover Species? 4. = Total Cover Species? 5. = Total Cover Species? 4. = Total Cover Species? 5. = Total Cover Species? 4. = Total Cover Species? 5. = Total Cover Species? 4. = Total Cover Species? 5. = Total Cover Species? 6. = Total Cover Species? 7. = Total Cover Species? 80 • Total Cover Species? 80 • Total Cover Species? 80 • Total Cover Species? 80 • Total Cover Species?	Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B)
1	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B)
2	Total Number of Dominant Species Across All Strata: 1 (B)
3	Species Across All Strata: 1 (B)
4	
Sapling/Shrub Stratum (Plot size 15 ft r) 1. 2. 3. 4. 5. = Total Cove Herb Stratum (Plot size: 5 ft r) 1. Phalaris arundinacea 80 ✓ 2. Bromus inermis 20	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size 15 ft r) 1. 2. 3. 4. 5. = Total Cove Herb Stratum (Plot size: 5 ft r) 1. Phalaris arundinacea 80 ✓ 2. Bromus inermis 20	That Are OBL, FACW, or FAC: 100 (A/B)
1.	ver
2	Prevalence Index worksheet: Total % Cover of: Multiply by:
3	OBL species 0 x 1 = 0
5 = Total Covered	FACW species 80 x 2 = 160
5 = Total Covered	FAC species 10 x 3 = 30
Herb Stratum (Plot size: 5 ft r 1. Phalaris arundinacea 80 2. Bromus inermis 20	FACU species 20 x 4 = 80
1. Phalaris arundinacea80✓2. Bromus inermis20	ver UPL species 0 x 5 = 0
2. Bromus inermis 20	FACW Column Totals: 110 (A) 270 (B)
	FACU Prevalence Index = B/A = 2.5
	FAC Hydrophytic Vegetation Indicators:
4	✓ 1 - Rapid Test for Hydrophytic Vegetation
5	✓ 2 - Dominance Test is >50%
6	3 - Prevalence Index is ≤3.0 ¹
7	4 - Morphological Adaptations (Provide supporting
8.	data in Remarks or on a separate sheet)
9,	Problematic Hydrophytic Vegetation¹ (Explain)
10	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	be present, unless disturbed or problematic.
1	be present, unless disturbed of problematic.
2	Hydrophytic
= Total Cove	be present, unless distanced of problematic.

SOIL Sampling Point: WB-12 Wet

	trix		lox Feature				
(inches) Color (moi		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 18 10YR 2/1	95	10YR 3/4	5	С	М	Silt Loam	
18 - 24 10YR 4/2	75	10YR 5/8	25	С	М	Silt Loam	
-							
-							
	_	-	~		_		
			-				
				-	-		
Type: C=Concentration, D	=Depletion, RN	M=Reduced Matrix, N	/IS=Maske	d Sand Gr	ains.		=Pore Lining, M=Matrix.
lydric Soil Indicators:		4.00					Problematic Hydric Soils ³ :
_ Histosol (A1)			Gleyed M				e Redox (A16)
Histic Epipedon (A2) Black Histic (A3)			Redox (S ed Matrix (Dark Surfac	e (57) nese Masses (F12)
Hydrogen Sulfide (A4)				ineral (F1)			w Dark Surface (TF12)
Stratified Layers (A5)				latrix (F2)			ain in Remarks)
2 cm Muck (A10)			ted Matrix				
Depleted Below Dark S			Dark Sur			100000	
✓ Thick Dark Surface (A1)				urface (F7)		drophytic vegetation and
 Sandy Mucky Mineral (5 cm Mucky Peat or Pe 		Redox	Depressi	ons (F8)			rology must be present, irbed or problematic.
Restrictive Layer (if obser						uniess distu	roed or problematic
Type:	veu).						
Type.						Hydric Soil Pres	ent? Yes No
Depth (inches)							
Depth (inches):: Remarks:							
Remarks:							
Remarks: YDROLOGY	tore						
Remarks: YDROLOGY Vetland Hydrology Indica						Secondary In	
Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum				vec (PO)		100 mm - 12 / 12 / 12 / 12 / 12 / 12 / 12 / 12	dicators (minimum of two require
YDROLOGY Netland Hydrology Indica Primary Indicators (minimul Surface Water (A1)	n of one is req	Water-St	ained Lea			Surface S	dicators (minimum of two require Soil Cracks (B6)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimul Surface Water (A1) High Water Table (A2)	n of one is req	Water-St	ained Lea Fauna (B1)	3)		Surface S Drainage	dicators (minimum of two require Soil Cracks (B6) Patterns (B10)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3)	n of one is req	Water-St Aquatic F True Aqu	ained Lea Fauna (B1) uatic Plants	3) s (B14)		Surface S Drainage Dry-Seas	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	n of one is req	Water-St Aquatic F True Aqu Hydroge	ained Lea Fauna (B1) uatic Plants n Sulfide C	3) s (B14) Odor (C1)	ving Roots	Surface S Drainage Dry-Seas Crayfish	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimul Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	n of one is req	Water-St Aquatic F True Aqu Hydrogei Oxidized	ained Lea Fauna (B1) uatic Plants n Sulfide C Rhizosph	3) s (B14)		Surface S Drainage Dry-Seas Crayfish s (C3) Saturatio	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	n of one is req	Water-St Aquatic F True Aqu Hydroge Oxidized Presence	ained Lea Fauna (B1) uatic Plants n Sulfide C Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Liv	4)	Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted of	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	n of one is req	Water-St Aquatic F True Aqu Hydrogei Oxidized Presence Recent Is	ained Lea Fauna (B1) uatic Plants n Sulfide C Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C	4)	Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted of Geomorp	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1)
YDROLOGY Vetland Hydrology Indica Primary Indicators (minimul Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	n of one is req	Water-St Aquatic F True Aqu Hydroget Oxidized Presencet Recent It	rained Lea Fauna (B1: patic Plants on Sulfide C Rhizosph e of Reduction Reduction	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7)	4)	Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted of Geomorp	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
YDROLOGY Netland Hydrology Indica Primary Indicators (minimul Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	n of one is req) erial Imagery (Water-St Aquatic F True Aqu Hydroger Oxidized Presencer Recent In Thin Muc	ained Lea Fauna (B1: Jatic Plants In Sulfide C Rhizosph e of Reductor on Reductor ck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted of Geomorp	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
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YDROLOGY Netland Hydrology Indica Primary Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Coffield Observations:	n of one is req) erial Imagery (Water-St Aquatic F True Aqu Hydroger Oxidized Presencer Recent In Thin Muc	ained Lea Fauna (B1) natic Plants n Sulfide (C Rhizosph e of Reduc ron Reduc ck Surface r Well Data xplain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted of Geomorp	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Our Stressed Plants (D1) Solic Position (D2)
YDROLOGY Vetland Hydrology Indicators (minimum Indicators (minimu	n of one is req) erial Imagery (ncave Surface	Water-St Aquatic F True Aqu Hydroger Oxidized Presencer Recent In Thin Muc	ained Lea Fauna (B1) atic Plants n Sulfide C Rhizosph e of Reduc ron Reduc ck Surface r Well Data xplain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Surface S Drainage Dry-Seas Crayfish S (C3) Saturatio Stunted of Geomorp	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)
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Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Coffield Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Cincludes capillary fringe) Describe Recorded Data (see Present Patents Presented Patents Patents Presented Patents Presented Patents Presented Patents Presented Patents Presented Patents Presented Patents Patents Patents Presented Patents Pate	erial Imagery (ncave Surface Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E) No Depth (in No Depth (in	ained Lea Fauna (B1) natic Plants n Sulfide C Rhizosph e of Reduc- ron Reduc- ck Surface r Well Data xplain in R nches): nches): nches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface S Drainage Dry-Seas Crayfish Stunted of Stunted of FAC-Neu tland Hydrology Pre	dicators (minimum of two requires Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Shic Position (D2) Itral Test (D5)
YDROLOGY Wetland Hydrology Indicate Primary Indicators (minimumon Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Cofficial Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (sowale	erial Imagery (ncave Surface Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E) No Depth (in No Depth (in	ained Lea Fauna (B1) natic Plants n Sulfide C Rhizosph e of Reduc- ron Reduc- ck Surface r Well Data xplain in R nches): nches): nches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface S Drainage Dry-Seas Crayfish Stunted of Stunted of FAC-Neu tland Hydrology Pre	dicators (minimum of two requires Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Shic Position (D2) Itral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Coffield Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Cincludes capillary fringe) Describe Recorded Data (see Present Patents Presented Patents Patents Presented Patents Presented Patents Presented Patents Presented Patents Presented Patents Presented Patents Patents Patents Presented Patents Pate	erial Imagery (ncave Surface Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc B7) Gauge o (B8) Other (E) No Depth (in No Depth (in	ained Lea Fauna (B1) natic Plants n Sulfide C Rhizosph e of Reduc- ron Reduc- ck Surface r Well Data xplain in R nches): nches): nches):	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (C	Surface S Drainage Dry-Seas Crayfish Stunted of Stunted of FAC-Neu tland Hydrology Pre	dicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2) stral Test (D5)

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020-10-31
Applicant/Owner: EDF Renewable	es			State: Minnesota	Sampling Point: WB-13 Up
Investigator(s): David Kuhlmann			Section, Township, Ra	ange: Section 15, T106	3N, R16W
Landform (hillslope, terrace, etc.): Hi				(concave, convex, none):	
Slope (%): 2-5 Lat: 43.98	87085		ong: -92.722800	5	Datum: NAD 83
Soil Map Unit Name: Oran silt loar				NWI classific	
Are climatic / hydrologic conditions on	the site typical	for this time of year			
Are Vegetation, Soil, c	or Hydrology	significantly	disturbed? Are	"Normal Circumstances" p	resent? Yes No
Are Vegetation, Soil, c				eeded, explain any answe	
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	Com a Charles	No_		e annanzi a meaan	
Hydric Soil Present?		No_	Is the Sample	d Area	
Wetland Hydrology Present?			within a Wetla	nd? Yes	No
Remarks:					
Sample located approx	ximately	5 feet high	er In elevatio	n than wetland s	sample point
VEGETATION - Use scientific	names of p	lants.			
30 ft =		Absolute	Dominant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30 ft r		% Cover	Species? Status	Number of Dominant Sp	
1				That Are OBL, FACW, o	or FAC: 0 (A)
2				Total Number of Domin	
3				Species Across All Stra	ta: <u>1</u> (B)
4				Percent of Dominant Sp	
-			= Total Cover	That Are OBL, FACW, o	or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size	15 ft r	_)	10141 00101	Prevalence Index work	ksheet:
1					Multiply by:
2				The state of the s	$x 1 = \frac{0}{0.0}$
3				FACW species 10	
4,				FAC species 0	
5			7.6 (2-7)	FACU species 90	
Herb Stratum (Plot size: 5 ft r	1		= Total Cover	Of E species	$\times 5 = \frac{0}{380}$ (B)
1 Bromus inermis	/	80	✓ FACU	Column Totals: 100	(A) 380 (B)
2 Cirsium arvense		10	FACU	Prevalence Index	= B/A = 3.8
3. Urtica dioica		10	FACW	Hydrophytic Vegetation	on Indicators:
4				1 - Rapid Test for H	lydrophytic Vegetation
5				2 - Dominance Tes	t is >50%
6				3 - Prevalence Inde	ex is ≤3.0 ¹
7					daptations1 (Provide supporting
8					s or on a separate sheet)
9,				Problematic Hydrop	ohytic Vegetation¹ (Explain)
10				Indicators of hydric soil	and wetland hydrology must
Woody Vine Stratum (Plot size: 30	Oft r	100%	= Total Cover	be present, unless distu	
1			C 16	Hydrophytic	
				Vegetation	4
2				December 11	Al-
Remarks: (Include photo numbers h			= Total Cover	Present? Yes	s No

Sampling Point: WB-13 Up

Depth Mat		Redo	x Features			
(inches) Color (mois	t) %	Color (moist)	% Type ¹	_Loc2	Texture	Remarks
0 - 24 10YR 2/2	100	1			Loam	
-						
		÷				
11-		-				
		-				
Type: C=Concentration, D=	Depletion, RM	=Reduced Matrix, M	S=Masked Sand Gr	ains.		L=Pore Lining, M=Matrix.
lydric Soil Indicators:		4.00				Problematic Hydric Soils ³ :
_ Histosol (A1)			Gleyed Matrix (S4)			rie Redox (A16)
Histic Epipedon (A2) Black Histic (A3)			Redox (S5)		Dark Surfa	anese Masses (F12)
Hydrogen Sulfide (A4)			d Matrix (S6) Mucky Mineral (F1)			ow Dark Surface (TF12)
Stratified Layers (A5)			Gleyed Matrix (F2)			plain in Remarks)
2 cm Muck (A10)			ed Matrix (F3)		====================================	and the same of th
Depleted Below Dark St	urface (A11)		Dark Surface (F6)			
Thick Dark Surface (A12			ed Dark Surface (F7	1	3Indicators of I	hydrophytic vegetation and
_ Sandy Mucky Mineral (S		Redox	Depressions (F8)			drology must be present,
_ 5 cm Mucky Peat or Pea					unless dist	turbed or problematic.
Restrictive Layer (if observ	/ed):					
Type:		_			Hydric Soil Pre	sent? Yes No
					100 200 200 200 200 200 200 200 200 200	
Depth (inches):						
Depth (inches):						
Depth (inches):Remarks:	ors:					
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicat		ired' check all that a	only)		Secondary	ndicators (minimum of two required
Depth (inches):			CONTRACTOR OF STREET			ndicators (minimum of two required
Depth (inches): Permarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Water-Sta	ined Leaves (B9)		Surface	Soil Cracks (B6)
Depth (inches): Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-Sta Aquatic Fa	iined Leaves (B9) auna (B13)		Surface Drainag	Soil Cracks (B6) e Patterns (B10)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Sta Aquatic Fa True Aqua	nined Leaves (B9) auna (B13) atic Plants (B14)		Surface Drainag Dry-Sea	Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is requi	Water-Sta Aquatic Fa True Aqua Hydrogen	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1)	ing Roots (Surface Drainag Dry-Sea Crayfish	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) Burrows (C8)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is requi	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	iined Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv		Surface Drainag Dry-Sea Crayfish C3) Saturati	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Depth (inches): Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is requi	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (C-	1)	Surface Drainag Dry-Sea Crayfish C3) Saturati	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) Burrows (C8)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is requi	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	iined Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv	1)	Surface Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomor	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	n of one is requi	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (Control Reduced Iron)	1)	Surface Surface Drainag Dry-Sea Crayfish Stunted Geomor	Soil Cracks (B6) e Patterns (B10) uson Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) uphic Position (D2)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	n of one is requi	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck To Gauge or	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (Con Reduction in Tille	1)	Surface Surface Drainag Dry-Sea Crayfish Stunted Geomor	Soil Cracks (B6) e Patterns (B10) uson Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) uphic Position (D2)
Print Pepsits (B2) Netland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor	n of one is requi	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck To Gauge or	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (C4) on Reduction in Tille of Surface (C7) Well Data (D9)	1)	Surface Surface Drainag Dry-Sea Crayfish Stunted Geomor	Soil Cracks (B6) e Patterns (B10) uson Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) uphic Position (D2)
Popth (inches): Proposition of the proposition of	erial Imagery (B ncave Surface (Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or (88) Other (Ex) No Depth (in	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (C- on Reduction in Tille c Surface (C7) Well Data (D9) plain in Remarks)	1)	Surface Surface Drainag Dry-Sea Crayfish Stunted Geomor	Soil Cracks (B6) e Patterns (B10) uson Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) uphic Position (D2)
Pepth (inches): Permarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corield Observations: Surface Water Present?	erial Imagery (B ncave Surface (Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Thin Muck Gr) Gauge or (B8) Other (Ex	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (C- on Reduction in Tille c Surface (C7) Well Data (D9) plain in Remarks)	1)	Surface Surface Drainag Dry-Sea Crayfish Stunted Geomor	Soil Cracks (B6) e Patterns (B10) uson Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) uphic Position (D2)
Pepth (inches): Permarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Corrield Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	erial Imagery (B ncave Surface (Yes Yes Yes	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Thin Muck (RB) Other (Exp No Depth (in No Depth (in	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (Con Reduction in Tille c Surface (C7) Well Data (D9) plain in Remarks) sches):	d Soils (C6)	Surface Drainag Dry-Sea Crayfish C3) Saturati Stunted) Geomon FAC-Ne	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Vater Table Present? Vater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Social Control of the Control of Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	erial Imagery (B ncave Surface (Yes Yes Yes	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Thin Muck (RB) Other (Exp No Depth (in No Depth (in	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (Con Reduction in Tille c Surface (C7) Well Data (D9) plain in Remarks) sches):	d Soils (C6)	Surface Drainag Dry-Sea Crayfish C3) Saturati Stunted) Geomon FAC-Ne	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5)
Depth (inches):	erial Imagery (B ncave Surface (Yes Yes Yes	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Thin Muck (RB) Other (Exp No Depth (in No Depth (in	ained Leaves (B9) auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (Con Reduction in Tille c Surface (C7) Well Data (D9) plain in Remarks) sches):	d Soils (C6)	Surface Drainag Dry-Sea Crayfish C3) Saturati Stunted) Geomon FAC-Ne	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar				City/Co.	inty: Dodge		Sampling	Date: 20	20-10-31
Applicant/Owner: EDF Renewables						State: Minnesota			
Investigator(s): David Kuhlmann				Section	Township, Ra	ange: Section 15, T10	06N, R16W		
Landform (hillslope, terrace, etc.): Depr						(concave, convex, none			
Slope (%): 0-2 Lat: 43.9887	'15			Long:	92.72285		Datum: N	AD 83	
Soil Map Unit Name: Oran silt Ioam,						NWI classif	ication: Nor	ne	
Are climatic / hydrologic conditions on the	site ty	oical fo	r this time of year	ar? Yes					
Are Vegetation, Soil, or H								es V	No
Are Vegetation, Soil, or H						eeded, explain any answ			
SUMMARY OF FINDINGS - Att									ures etc
				Samp	ing point	ocations, transect	s, importe	int leat	ures, etc
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	~	No	1:	s the Sample	d Area			
Wetland Hydrology Present?			No		vithin a Wetla		No_		
Remarks:	103				00 U- 0- X 7	750			
Excavated depression/p	it.								
Excavated depression/p	,,,,								
VEGETATION - Use scientific na	ames	of pla	nts.						
20.6			Absolute		ant Indicator	Dominance Test wor	ksheet:		
Tree Stratum (Plot size: 30 ft r			% Cover	Specie	es? Status	Number of Dominant	Species	,	979
1				_		That Are OBL, FACW	or FAC: 4	2	(A)
2				_		Total Number of Domi	Selection.	,	(0)
3				_		Species Across All Str	rata: 2	2	(B)
5						Percent of Dominant S		00	/A7D\
	_			= Total	Cover	That Are OBL, FACW	OF PAC.		(A/B)
Sapling/Shrub Stratum (Plot size 15)	1772	4910	Prevalence Index wo			
10						Total % Cover of:			y:
2				_			x1		_
3				-		FACW species 10		= <u>20</u> = 0	_
4,				_		FAC species 0		= 0	-
5				*		UPL species 0		= 0	_
Herb Stratum (Plot size: 5 ft r).		-	= Total	Cover	Column Totals: 10	(A)	20	(B)
1. Bidens frondosa			5	~	FACW	Column Totals,	(5)		(6)
2 Sedge species			5		FACW	Prevalence Inde	x = B/A = 2	2.0	
3						Hydrophytic Vegetat	ion Indicato	rs:	7 1 1 1
4,						✓ 1 - Rapid Test for		Vegetatio	on
5				_		✓ 2 - Dominance Tell			
6				-		✓ 3 - Prevalence Inc			
7						4 - Morphological data in Remark	Adaptations	(Provide	supporting
8				_	_	Problematic Hydr			
9,			_			i robiciliatio riyur	opilytic vege	idioi (L	Apjoint
10			400/	-		¹ Indicators of hydric so	oil and wetlar	nd hydrolo	ogy must
Woody Vine Stratum (Plot size: 30 ft	r)	10%	= Total	Cover	be present, unless dis			0,
1				· -		Hydrophytic			
						Vegetation	_	3.4	
2.						Dynanas 2		NI-o	
Remarks: (Include photo numbers here				= Total	Cover	Present? Y	es	No	-

SOIL Sampling Point: WB-13 Wet

(inches) Color (0 - 6 10YR 2 6 - 24 10YR 4	/2 70	Color (moist) 10YR 5/8 10YR 5/8	30 25	C C	M M	Loam Sand	Rémarks
6 - 24 10YR 4		7 7					
¹ Type: C=Concentration	/4 /5	10YR 5/8		<u>. c </u>	<u>M</u>	Sand	
		-					
	10 de 2 millo 00 - 120						- C
.,		M=Reduced Matrix, M	IS=Maske	d Sand Gr	ains.		_=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol (A1)		Sandy	Gleyed M	atrix (SA)			rie Redox (A16)
Histic Epipedon (A2	ν)		Redox (S			Dark Surfa	
Black Histic (A3)			ed Matrix (anese Masses (F12)
Hydrogen Sulfide (A	44)			ineral (F1)			ow Dark Surface (TF12)
Stratified Layers (A			Gleyed N				lain in Remarks)
2 cm Muck (A10)			ed Matrix				
Depleted Below Da	rk Surface (A11)		Dark Surf				
Thick Dark Surface				urface (F7)	3Indicators of h	hydrophytic vegetation and
Sandy Mucky Mine			Depression	The state of the s			drology must be present,
5 cm Mucky Peat o			200				urbed or problematic
Restrictive Layer (if of							
Туре:		_				Modela Call Bas	sent? Yes No
Depth (inches):						Hydric Soil Pre	sent? Yes No
YDROLOGY							
Vetland Hydrology Inc	dicators:						
Primary Indicators (mini	mum of one is req	uired; check all that a	pply)			Secondary li	ndicators (minimum of two require
Surface Water (A1)		Water-St	ained Leav	ves (B9)		Surface	Soil Cracks (B6)
High Water Table (and the second s	auna (B1				e Patterns (B10)
Saturation (A3)	-7		atic Plants				son Water Table (C2)
Water Marks (B1)			Sulfide C				Burrows (C8)
Sediment Deposits	(B2)				ing Roots		on Visible on Aerial Imagery (C9)
Drift Deposits (B3)	(62)			ed Iron (C			or Stressed Plants (D1)
Algal Mat or Crust (B4)				d Soils (Ci		phic Position (D2)
Iron Deposits (B5)	04)		k Surface		d dons (ci		utral Test (D5)
	n Aorial Imagany /		Well Data	2 - 10		_ PAC-NE	uliai (est (D5)
Inundation Visible of Sparsely Vegetated			oplain in R				
ield Observations:	Concave Surface	(Do) Other (Ex	plain in K	emarks)	_		
	Van	No Depth (in	nahaa).				
	100				-		
	Yes	No Depth (in			_	and the desired Ba	and the V
Water Table Present?			nches):		Weti	and Hydrology Pr	esent? Yes No
Nater Table Present? Saturation Present? includes capillary fringe	Yes	No Depth (in		roulous le	nootions	if available.	
Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Date	Yesa) a (stream gauge, r			revious in	spections),	if available:	
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date Potentially excavate	Yesa) a (stream gauge, r			revious in	spections),	if available:	
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date Potentially excavate Remarks:	Yesa) a (stream gauge, r			revious in	spections),	if available:	

Project/Site: Byron Solar			City/County: Dodge		Sampling Date: 2020-10-31
Applicant/Owner: EDF Renewable	es				Sampling Point: WB-14 Up
nvestigator(s): David Kuhlmann			Section, Township, Ra	nge: Section 11, T106	6N, R16W
Landform (hillslope, terrace, etc.): Up				(concave, convex, none):	
Slope (%); 2-5 Lat, 43.99	77417		Long: -92.7180705	5	Datum: NAD 83
Soil Map Unit Name: Tripoli clay le					
Are climatic / hydrologic conditions on	the site typical	for this time of yea	ar? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, c					resent? Yes No
Are Vegetation, Soil, c				eeded, explain any answe	
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	to the of the order	No			
Hydric Soil Present?	Yes V	No	Is the Sampled	I Area	
Wetland Hydrology Present?		No V	within a Wetlan	nd? Yes	No
Remarks:					
Sample located in flat,	tilled sov	bean field			
Compre received in march					
VEGETATION - Use scientific	names of pl	ants.			
30 ft r		Absolute	Dominant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30 ft r		% Cover	Species? Status	Number of Dominant Sp	
1				That Are OBL, FAGW,	or FAC: 0 (A)
2 3				Total Number of Domin	
4.				Species Across All Stra	ta: <u>0</u> (B)
5			=	Percent of Dominant Sp	
			= Total Cover	That Are OBL, FACW,	or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size	15 ft r	_)	V. 1975 - 5-20 C.	Prevalence Index work	ksheet:
1					Multiply by:
2					x 1 = 0
3				FACW species 0	x 2 = 0
4,				FAC species 0	x 3 = 0
5				FACU species 0	
Herb Stratum (Plot size: 5 ft r	1		= Total Cover		x = 0
1.				Column Totals: 0	(A) <u>0</u> (B)
2.				Prevalence Index	= B/A = 0.0
3.				Hydrophytic Vegetation	on Indicators:
4				1 - Rapid Test for H	Hydrophytic Vegetation
5				2 - Dominance Tes	t is >50%
6				3 - Prevalence Inde	ex is ≤3.0 ¹
7					daptations (Provide supporting
8			FACU		s or on a separate sheet)
9,				Problematic Hydrop	ohytic Vegetation¹ (Explain)
10				Indicators of hydric noi	and wetland hydrology must
Woody Vine Stratum (Plot size: 30	Oft r	, —	= Total Cover	be present, unless distu	
The second secon				Hydrophytic	
1				Vegetation	
2			= Total Cover		s No

Sampling Point: WB-14 Up

	Matrix			lox Featur	es	-		45. 4.
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc²	Texture	Remarks
0 - 14	10YR 2/1	100	1	-	-		Clay	
14 ⁻ 18	10YR 3/1	100					Clay	
18 - 24	10YR 4/2	80	10YR 5/8	20	С	M	Clay	
-								
	-							
			1.1					
Type: C=Co	oncentration D=De	enletion RN	M=Reduced Matrix, N	MS=Masks	d Sand G		21 ocation: P	L=Pore Lining, M=Matrix.
ydric Soil I		pionom, i ii	n negacia manni	no maone	o ound on	GIIIO.		Problematic Hydric Soils ³ :
_ Histosol	(A1)		Sandy	Gleyed N	latrix (S4)		Coast Pra	irie Redox (A16)
_ Histic Ep	pipedon (A2)		Sandy	Redox (S	5)		Dark Surfa	
_ Black His	and the second s			ed Matrix (the second second			anese Masses (F12)
	n Sulfide (A4)				ineral (F1)			ow Dark Surface (TF12)
	Layers (A5) ck (A10)			y Gleyed N ted Matrix	Matrix (F2)		Other (Exp	olain in Remarks)
	Below Dark Surfa	ce (A11)		Dark Sur				
	ark Surface (A12)				Surface (F7)	3Indicators of	hydrophytic vegetation and
	lucky Mineral (S1)		Redox	Depressi	ons (F8)			drology must be present,
_ 5 cm Mu	cky Peat or Peat (unless dis	turbed or problematic
	ayer (if observed	():						
							Hydric Soil Pro	esent? Yes No
Type:	AC-S						I I I V UI I C O O II I I I C	
	ches)::						Tryunc gorre	NO
Type: Depth (inc emarks:							Tryunc gorrie	165 NO
Type: Depth (inc Remarks:	GY	5.					Tryunc guirre	165 NO
Type: Depth (inc Remarks: YDROLO Vetland Hyc	GY drology Indicators		uired check all that	anniv)				
Type: Depth (indicemarks: YDROLO Vetland Hydrimary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary Indicemary	GY drology Indicators ators (minimum of		uired; check all that a		wae (RQ)		Secondary I	ndicators (minimum of two required
Type: Depth (ind emarks: /DROLO /etland Hyd rimary Indic Surface	GY drology Indicators ators (minimum of Water (A1)		Water-St	tained Lea	4.0		Secondary I	ndicators (minimum of two required Soil Cracks (B6)
Type: Depth (indicates) PROLO Petland Hydrimary Indicates High Wa	GY drology Indicators ators (minimum of Water (A1) ter Table (A2)		Water-Si	tained Lea Fauna (B1	3)		Secondary I Surface Drainag	indicators (minimum of two required Soil Cracks (B6) ge Patterns (B10)
Type: Depth (indicemarks: PROLO Vetland Hydrimary Indice High Wa Saturation	GY drology Indicators ators (minimum of Water (A1) ter Table (A2)		Water-Si Aquatic I True Aqu	tained Lea	3) s (B14)		Secondary I Surface Drainag Dry-Sea	ndicators (minimum of two required Soil Cracks (B6)
Type: Depth (indicemarks: /DROLO /etland Hydrimary Indice High Wa Saturatic Water M	GY drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3)		Water-Si Aquatic I True Aqu Hydroge	tained Lea Fauna (B1 uatic Plant n Sulfide (3) s (B14)	ving Roots	Secondary I Surface Drainag Dry-Sea Crayfish	ndicators (minimum of two required Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Type: Depth (indicemarks: POROLO Vetland Hydrimary Indice Surface High Wa Saturatic Water M Sedimer	GY drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)		Water-Si Aquatic I True Aqu Hydroge Oxidized	tained Lea Fauna (B1 uatic Plant n Sulfide (I Rhizosph	3) s (B14) Odor (C1)	1. 16.3	Secondary I Surface Drainag Dry-Sea Crayfish	ndicators (minimum of two required Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2)
Type: Depth (indicemarks: YDROLO Vetland Hyderimary Indicemary Indicemarks: Surface High Wa Saturation Water Mater Mater Mater Mater Mater Mater Mater Drift Dep	GY drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)		Water-Si Aquatic I True Aqu Hydroge Oxidized Presence	tained Lea Fauna (B1 uatic Plant n Sulfide (I Rhizosph e of Reduc	3) s (B14) Odor (C1) eres on Liv	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted	ndicators (minimum of two required Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) Burrows (C8) Son Visible on Aerial Imagery (C9)
Type: Depth (ind Remarks: YDROLO Vetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) ossits (B3) at or Crust (B4) ossits (B5)	one is requ	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Mue	tained Lea Fauna (B1 Justic Plant In Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted G6) Geomo	indicators (minimum of two required Soil Cracks (B6) Be Patterns (B10) Beson Water Table (C2) Beson Water Table (C2) Bon Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Type: Depth (indicemarks: YDROLO Vetland Hydrimary Indice Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria	one is required in the second of the second	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc	tained Lea Fauna (B1 uatic Plant In Sulfide (I I Rhizosph e of Reduc ron Reduc ck Surface Ir Well Dat	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted G6) Geomo	ndicators (minimum of two required Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) Bason Water Table (C2) Bason Visible on Aerial Imagery (C9) For Stressed Plants (D1) Strephic Position (D2)
Type: Depth (ind remarks: TOROLO Vetland Hyd rimary Indic High Wat Saturatio Water M Sedimer Drift Dep Algal Ma _ Iron Dep Inundatio Sparsely	GY drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aeria (Vegetated Conca	one is required in the second of the second	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc	tained Lea Fauna (B1 Justic Plant In Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted G6) Geomo	ndicators (minimum of two required Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) Bason Water Table (C2) Bason Visible on Aerial Imagery (C9) For Stressed Plants (D1) Strephic Position (D2)
Type: Depth (indicemarks: TOROLO Vetland Hydrimary Indice High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely ield Obsen	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aeria Vegelated Conca	one is required in the second of the second	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge o (B8) Other (E	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface ir Well Dat xplain in R	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted G6) Geomo	ndicators (minimum of two required Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) Bason Water Table (C2) Bason Visible on Aerial Imagery (C9) For Stressed Plants (D1) Strephic Position (D2)
Type: Depth (indicemarks: YDROLO Vetland Hydromary Indice Water M Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely ield Observation	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aeria of Vegetated Conca vations: er Present?	I Imagery (ve Surface	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Mue B7) Gauge o (B8) Other (E	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduc ron Reduc ck Surface ir Well Dat xplain in R	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted G6) Geomo	ndicators (minimum of two required Soil Cracks (B6) Be Patterns (B10) Bason Water Table (C2) Bason Water Table (C2) Bason Visible on Aerial Imagery (C9) For Stressed Plants (D1) Strephic Position (D2)
Type: Depth (indicemarks: //DROLO //etland Hydrimary Indice High Wa Saturatice Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatice Sparsely ield Obsern urface Water //ater Table	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria (Vegetated Conca vations: er Present?	I Imagery (ve Surface Yes	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge o (B8) Other (E	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduction fron Reduction ck Surface or Well Date explain in Reduction inches): inches): inches):	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4) ed Soils (C	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	ndicators (minimum of two required Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) fon Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Type: Depth (ind Remarks: YDROLO Vetland Hyd Vetland Hyd Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely ield Obsentation Princludes cap	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aeria (Vegetated Conca vations: er Present? Present? resent?	I Imagery (ve Surface Yes Yes	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge o (B8) Other (E No Depth (i) No Depth (i)	tained Lea Fauna (B1 uatic Plant in Sulfide (I Rhizosph e of Reduction fron Reduction ck Surface or Well Date explain in Reduction inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) lemarks)	4) ed Soils (C	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomo	ndicators (minimum of two required Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) fon Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Type: Depth (ind Remarks: YDROLO Vetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obsen Surface Water Vater Table Saturation Princludes cap Describe Rec	GY drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aeria vegetated Conca vations: er Present? Present? present? corded Data (strea	I Imagery (ve Surface Yes Yes Yes m gauge, n	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge o (B8) Other (E No Depth (i No Depth (i nonitoring well, aeria	tained Lea Fauna (B1 Latic Plant In Sulfide (I I Rhizosph I Rhizosph I Reduc I	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) demarks)	4) ed Soils (C	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi FAC-Ne	ndicators (minimum of two required Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) fon Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)
Type: Depth (ind Remarks: YDROLO Vetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obsen Surface Water Vater Table Saturation Princludes cap Describe Rec	GY drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aeria vegetated Conca vations: er Present? Present? present? corded Data (strea	I Imagery (ve Surface Yes Yes Yes m gauge, n	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc B7) Gauge o (B8) Other (E No Depth (i) No Depth (i)	tained Lea Fauna (B1 Latic Plant In Sulfide (I I Rhizosph I Rhizosph I Reduc I	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) demarks)	4) ed Soils (C	Secondary I Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi FAC-Ne	ndicators (minimum of two required Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) in Burrows (C8) fon Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar		City/County: Dodge	Sampling Date: 2020-10-31
Applicant/Owner: EDF Renewables			State: Minnesota Sampling Point: WB-14 Wet
Investigator(s): David Kuhlmann		Section, Township, Ra	ange: Section 11, T106N, R16W
Landform (hillslope, terrace, etc.); Swale			(concave, convex, none): Concave
Slope (%): 0-2 Lat: 43.997743		Long: -92.718081	Datum: NAD 83
Soil Map Unit Name: Tripoli clay loam, 0 to 2 pe	rcent slopes	(M515A)	NWI classification: R4SBC
Are climatic / hydrologic conditions on the site typical fo	r this time of ye	ar? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally pro	oblematic? (If no	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site m	ap showing	sampling point l	locations, transects, important features, etc.
Hydrophytic Vegetation Present?	No	111111111111111111111111111111111111111	
Hydric Soil Present? Yes	No	Is the Sample	
Wetland Hydrology Present? Yes	No	within a Wetla	nd? Yes No
Remarks:			
VEGETATION - Use scientific names of pla	nts.		
20 # *	Absolute	1 1 2 2 3 4 1 WHITE CO. 149 24 2 5 5 5 7 1	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: 2 (A)
2		$\overline{}$	Total Number of Dominant
3			Species Across All Strata: 2 (B)
5.			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
3		= Total Cover	(12)
Sapling/Shrub Stratum (Plot size 15 ft r)	4 FACIAL	Prevalence Index worksheet:
1 Salix interior	30	FACW	
2	_		OBL species $\frac{0}{130}$ $x = \frac{0}{260}$
3			FAC species 0 x 3 = 0
5.			FACU species 0 x 4 = 0
J	30%	= Total Cover	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)		1 4 4 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Column Totals: 130 (A) 260 (B)
1. Phalaris arundinacea	100	FACW	2.0
2,			Prevalence Index = B/A = 2.0
3			Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
4			✓ 2 - Dominance Test is >50%
5			✓ 3 - Prevalence Index is ≤3.01
6			4 - Morphological Adaptations¹ (Provide supporting
7			data in Remarks or on a separate sheet)
9,			Problematic Hydrophytic Vegetation (Explain)
10			
		= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft r)			be present, unless distance of problematic.
1			Hydrophytic
2.			Vegetation Present? Yes No
-		= Total Cover	Present res No

SOIL Sampling Point: WB-14 Wet

0 - 14 10YR 2/1			ox Featur				
0 - 1/1 10VP 2/1		Color (moist)	%	Type ¹	_Loc2_	Texture	Remarks
0 14 10 TR 2/1	95	10YR 3/4	5	<u>C</u>	PL / M	Clay	
14 - 24 10YR 4/2	75	10YR 5/8	25	С	M	Clay	
-							
		7					
			~		_		
		-	-		_		
Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual		A	2 00 -				ACCUSE AND ACCUSE OF
Type: C=Concentration, lydric Soil Indicators:	D=Depletion, F	RM=Reduced Matrix, N	IS=Maske	ed Sand Gr	rains.		PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
. at the state of the state of a		Consti	Cleves				맛이 얼마나 이 사이를 하면서 아무슨 때문에 되었다.
Histosol (A1) Histic Epipedon (A2)			Redox (S	fatrix (S4)		Coast Pra	airie Redox (A16)
Black Histic (A3)			ed Matrix				ganese Masses (F12)
Hydrogen Sulfide (A4				lineral (F1)			llow Dark Surface (TF12)
Stratified Layers (A5)				Matrix (F2)			plain in Remarks)
2 cm Muck (A10)			ed Matrix				ALL ALL ALL AND AND AND AND AND AND AND AND AND AND
Depleted Below Dark			Dark Sur			12.5	
✓ Thick Dark Surface (A)				Surface (F7)		hydrophytic vegetation and
Sandy Mucky Mineral		Redox	Depressi	ons (F8)			ydrology must be present,
5 cm Mucky Peat or F						unless dis	sturbed or problematic
Restrictive Layer (if obse	erved):						
-						11.12.0.118.	esent? Yes No
Туре:						Hydric Soil Pr	esent? Yes No
Depth (inches):						Hydric Soil Pr	esent? Yes No
Depth (inches):Remarks:						Hydric Soil Pr	esent? Yes No
Depth (inches):Remarks:	ators:					Hydric Soil Pr	esent? Yes No
Depth (inches):Remarks: YDROLOGY Wetland Hydrology India		quired; check all that a	ipply)				
Depth (inches):		The state of the s	will at the same	was /BO\		Secondary	Indicators (minimum of two require
Depth (inches):	ım of one is re	Water-St	ained Lea			Secondary Surface	Indicators (minimum of two require e Soil Cracks (B6)
Depth (inches):	ım of one is re	Water-St Aquatic F	ained Lea auna (B1	3)		Secondary Surface Draina	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indice Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	ım of one is re	Water-St Aquatic F True Aqu	ained Lea auna (B1 atic Plant	3) s (B14)		Secondary Surface Drainae Dry-Se	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	um of one is re	Water-St Aquatic F True Aqu Hydroger	ained Lea auna (B1 atic Plant Sulfide (3) s (B14) Odor (C1)	vina Roots	Secondary Surface Drainae Dry-Se Crayfis	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) rason Water Table (C2) th Burrows (C8)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B	um of one is re	Water-St Aquatic F True Aqu Hydroger Oxidized	ained Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Liv	ving Roots	Secondary Surface Drainae Dry-Se Crayfis (C3) Satural	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (inches): Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	um of one is re	Water-St Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Liv ced Iron (C	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Depth (inches):	um of one is re	Water-St Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C	1000	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stunter Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) dor Stressed Plants (D1) orphic Position (D2)
Depth (inches):	um of one is read	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea fauna (B1 atic Plant n Sulfide (Rhizosph of Reduc on Reduc k Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stunter Geomo	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Depth (inches): Remarks: YDROLOGY Netland Hydrology Indice Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on	um of one is red 2) Aerial Imagery	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea fauna (B1 atic Plant n Sulfide (Rhizosph of Reduc on Reduc k Surface	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stunter Geomo	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C	um of one is red 2) Aerial Imagery	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea fauna (B1 atic Plant n Sulfide (Rhizosph of Reduc on Reduc k Surface	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stunter Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) dor Stressed Plants (D1) orphic Position (D2)
Print Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations:	um of one is red 2) Aerial Imagery	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge of	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc k Surface Well Dat cplain in R	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stunter Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) dor Stressed Plants (D1) orphic Position (D2)
Primary Indicators (minimal Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Careface Water Present?	um of one is red 2) Aerial Imagery oncave Surface	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduct on Reduct k Surface Well Dat cplain in R	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Satural Stunter Geomo	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Primary Indicators (minimal Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Officeld Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe)	um of one is re- 2) Aerial Imagery oncave Surfac Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge of the (B8) Other (Ext No Depth (in No Depth (in	ained Lea fauna (B1 atic Plant in Sulfide (Rhizosph in Geduc on Reduc k Surface in Well Dat (plain in R inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (Co	Secondary Surface Drainag Dry-Se Crayfis Stunted Stunted FAC-N	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) dor Stressed Plants (D1) or phic Position (D2)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology India Primary Indicators (minimumon of the compositi	um of one is re- 2) Aerial Imagery oncave Surfac Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge of the (B8) Other (Ext No Depth (in No Depth (in	ained Lea fauna (B1 atic Plant in Sulfide (Rhizosph in Geduc on Reduc k Surface in Well Dat (plain in R inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (Co	Secondary Surface Drainag Dry-Se Crayfis Stunted Stunted FAC-N	Indicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) dor Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Depth (inches):	um of one is re- 2) Aerial Imagery oncave Surfac Yes Yes Yes	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge of the (B8) Other (Ext No Depth (in No Depth (in	ained Lea fauna (B1 atic Plant in Sulfide (Rhizosph in Geduc on Reduc k Surface in Well Dat (plain in R inches): inches): inches): inches):	3) s (B14) Odor (C1) eres on Liv ced Iron (C tion in Tille (C7) a (D9) Remarks)	4) ed Soils (Co	Secondary Surface Drainag Dry-Se Crayfis Stunted Stunted FAC-N	Indicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) dor Stressed Plants (D1) orphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar			City/Co	ounty:	Dodge			Sampling Date:	2020-10-3
Applicant/Owner: EDF Renewables						State: Mir		Sampling Point:	
Investigator(s): David Kuhlmann			Section	n. To	wnship, Ra	nge: Section 1			
Landform (hillslope, terrace, etc.): Uplar						(concave, convex			
Slope (%): 2-5 Lat: 43.9981								Datum: NAD 8	3
Soil Map Unit Name: Barremills silt Ioan								and the state of t	
Are climatic / hydrologic conditions on the								7.1.2	
Are Vegetation, Soil, or H									No. V
						eded, explain an			
Are Vegetation, Soil, or H									1000
SUMMARY OF FINDINGS - Att	to a travel of the		sam	plin	g point i	ocations, trai	nsects,	important fo	eatures, etc
Hydrophytic Vegetation Present?	Yes		. "	le th	e Sampled	Area			
Hydric Soil Present?		No			in a Wetlar		pg	No_	
Wetland Hydrology Present? Remarks:	Yes	NO		*******	ar a rrection				
Sample located in tilled soybe	oan fiold an	nrovimato	dv 1 f	oot	higher i	n elevation t	that wo	tland camp	lo
Sample located in tilled soyb	zan nelu app	proximate	ry i i	σσι	iligilei i	ii elevation t	mat we	lianu samp	ie
VECETATION Lies scientific as	amas of plant								
VEGETATION – Use scientific na	arries of plant	S. Absolute	Domi	inant	Indicator	Dominance Te	et werkel	hoat:	
Tree Stratum (Plot size: 30 ft r)	% Cover				Number of Don			
1.					V 1	That Are OBL,			(A)
2						Total Number of	of Domina	a).	
3						Species Across		^	(B)
4.						Developed of Deve	Stand Co.	4144	
5						Percent of Don That Are OBL,			(A/B)
15	ftr		= Tota	I Cov	er		0.00		- 4.0
Sapling/Shrub Stratum (Plot size 15						Prevalence Inc	The first of the same		les berre
1			-	_				x 1 = 0	ly by:
2			-	_		OBL species FACW species			_
3			-	_	-	FAC species		x 3 = 0	
4,			_	_		FACU species	_	x = 0	-
D			= Tota	I Cou		UPL species	0	x 5 = 0	
Herb Stratum (Plot size: 5 ft r)	_	- 1018	ii Gov	CI	Column Totals:	0	(A) 0	(B)
1.		10000				Column Totalo.			(9)
2,						Prevalend	ce Index =	= B/A = 0.0	
3						Hydrophytic V	egetation/	Indicators:	8.74
4			_			1 - Rapid T	Test for Hy	drophytic Vege	tation
5						2 - Domina			
6						3 - Prevale			
7						4 - Morpho	ological Ad	laptations ¹ (Pro	vide supporting
8								or on a separate nytic Vegetation	
9,		بتستوك				Problemati	ic Hydropi	tytic vegetation	(Explain)
10			_			Indicators of h		and wetland hyd	فمدنت بتمتامة
Woody Vine Stratum (Plot size: 30 ft	r	_	= Tota	l Cov	er	be present, unl			
1			-			Hydrophytic			
2.						Vegetation	4010	11.	/
			= Tota	I Cov	er	Present?	Yes	No _	
Remarks: (Include photo numbers here	or on a separate	e sheet.)							
, and the second		- 3							

SOIL Sampling Point: WB-15 Up

Depth Matr		Redox Feature	es		
(inches) Color (mois	%	Color (moist) %	Type ¹ Loc ²	Texture	Remarks
0 - 40 10YR 2/1	100			Clay	
-					
			$\overline{}$		
				-	
-					
Type: C=Concentration. D=	Depletion, RM:	Reduced Matrix, MS=Masked	d Sand Grains.	² Location: PL	=Pore Lining, M=Matrix.
lydric Soil Indicators:					Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Gleyed Ma	atrix (S4)	Coast Prair	ie Redox (A16)
Histic Epipedon (A2)		Sandy Redox (S5		Dark Surfa	
Black Histic (A3)		Stripped Matrix (S	S6)		nese Masses (F12)
Hydrogen Sulfide (A4)		Loamy Mucky Min		The second secon	w Dark Surface (TF12)
Stratified Layers (A5)		Loamy Gleyed M		Other (Exp	lain in Remarks)
2 cm Muck (A10)	a linear	Depleted Matrix (
Depleted Below Dark Su		Redox Dark Surfa		Si. 10-10-11-12	aritistic de la constantion de
Thick Dark Surface (A12		Depleted Dark Su	THE RESERVE AND THE PARTY OF TH		ydrophytic vegetation and
 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea 		Redox Depressio	ons (ro)		drology must be present, urbed or problematic.
Restrictive Layer (if observ				diless disti	arbed of problematic
Type:	/-				A A STATE OF THE S
1,100.				Hydric Soil Pres	sent? Yes No
Denth (inches)					
Depth (inches): Remarks: B horizon could n	ot be rea	ched, A12 assume	ed		
Remarks: 3 horizon could n	ot be rea	ched, A12 assume	ed		
Remarks: 3 horizon could n YDROLOGY		ched, A12 assume	ed		
Remarks: B horizon could n YDROLOGY Wetland Hydrology Indicat	ors:		ed		
Remarks: 3 horizon could n YDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum	ors:	red; check all that apply)		Secondary In	dicators (minimum of two required
Remarks: 3 horizon could n YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1)	ors:	red; check all that apply) Water-Stained Leav	/es (B9)	Secondary Ir Surface	dicators (minimum of two required
Remarks: 3 horizon could not not not not not not not not not not	ors:	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13	/es (B9)	Secondary Ir Surface Drainage	idicators (minimum of two required Soil Cracks (B6) Patterns (B10)
Primary Indicators (Main Water Table (A2) Saturation (A3)	ors:	red; check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants	ves (B9) 3) (B14)	Secondary Ir Surface Drainage Dry-Sea	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Primary Indicators (Main Marks) YDROLOGY Vetland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ors:	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O	/es (B9) 3) 5 (B14) dor (C1)	Secondary Ir Surface Drainage Dry-Sea: Crayfish	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)
Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ors:	red; check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe	/es (B9) 3) 5 (B14) 6dor (C1) eres on Living Root	Secondary Ir Surface Drainage Dry-Sea: Crayfish S (C3) Saturatio	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ors:	red; check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	ves (B9) B) Is (B14) Idor (C1) Beres on Living Root Bed Iron (C4)	Secondary Ir Surface Drainage Dry-Sear Crayfish s (C3) Stunted	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ors:	red; check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	/es (B9) B) (B14) Idor (C1) Bres on Living Root ed Iron (C4) ion in Tilled Soils (C	Secondary Ir Surface Drainage Dry-Sea: Crayfish S (C3) Saturatio Stunted G6) Geomory	dicators (minimum of two required Soil Cracks (B6) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C9) or Stressed Plants (D1) obtic Position (D2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti	/es (B9) 3) 5 (B14) 6dor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C	Secondary Ir Surface Drainage Dry-Sea: Crayfish S (C3) Saturatio Stunted G6) Geomory	edicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) On Stressed Plants (D1)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (7) Gauge or Well Data	ves (B9) 3) 5 (B14) 6dor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C) (C7) 6 (D9)	Secondary Ir Surface Drainage Dry-Sea: Crayfish S (C3) Saturatio Stunted G6) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Con	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (7) Gauge or Well Data	ves (B9) 3) 5 (B14) 6dor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C) (C7) 6 (D9)	Secondary Ir Surface Drainage Dry-Sea: Crayfish S (C3) Saturatio Stunted G6) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Properties (B2) Properties (B2) Print Deposits (B2) Print Deposits (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Conficield Observations	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (7) Gauge or Well Data	ves (B9) 3) 5 (B14) 6dor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C) (C7) 6 (D9)	Secondary Ir Surface Drainage Dry-Sea: Crayfish S (C3) Saturatio Stunted G6) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations:	ors: of one is requi	red; check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface of Gauge or Well Data B8) Other (Explain in Re	ves (B9) 3) 5 (B14) 6dor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C) (C7) 6 (D9)	Secondary Ir Surface Drainage Dry-Sea: Crayfish S (C3) Saturatio Stunted G6) Geomory	dicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Water Table Present?	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface of Gauge or Well Data B8) Other (Explain in Re	ves (B9) 3) 5 (B14) bdor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C (C7) i (D9) emarks)	Secondary Ir Surface Drainage Dry-Sea: Crayfish S (C3) Saturatio Stunted Geomory FAC-Nei	dicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Proposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present? Nater Table Present? Saturation Present? Saturation Present? Includes capillary fringe)	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface of Gauge or Well Data B8) Other (Explain in Reserved) No Depth (inches): No Depth (inches):	/es (B9) 3) i (B14) idor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C (C7) i (D9) emarks) We	Secondary Ir Surface Drainage Dry-Sear Crayfish S (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Proposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present? Nater Table Present? Saturation Present? Saturation Present? Includes capillary fringe)	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface of Gauge or Well Data B8) Other (Explain in Re	/es (B9) 3) i (B14) idor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C (C7) i (D9) emarks) We	Secondary Ir Surface Drainage Dry-Sear Crayfish S (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Confield Observations: Surface Water Present? Nater Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present?	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface of Gauge or Well Data B8) Other (Explain in Reserved) No Depth (inches): No Depth (inches):	/es (B9) 3) i (B14) idor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C (C7) i (D9) emarks) We	Secondary Ir Surface Drainage Dry-Sear Crayfish S (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
Property Pro	ors: of one is requi	red: check all that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface of Gauge or Well Data B8) Other (Explain in Reserved) No Depth (inches): No Depth (inches):	/es (B9) 3) i (B14) idor (C1) eres on Living Root ed Iron (C4) ion in Tilled Soils (C (C7) i (D9) emarks) We	Secondary Ir Surface Drainage Dry-Sear Crayfish S (C3) Saturatio Stunted Geomory FAC-Net	dicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Project/Site: Byron Solar				City/C	County: Dodge		San	npling Dat	e 2020	0-10-30
Applicant/Owner: EDF Renewables						State: Mir	nesota San	pling Poi	nt: WB-	15 Wet
Investigator(s): David Kuhlmann				Secti	on, Township, Ra	nge: Section 1	1, T106N, F	R16W		
Landform (hillslope, terrace, etc.): Swa					Local relief					
Slope (%): 0-2 Lat. 43.997	8943			Long	-92.6983998	В	Date	ım: NAC	83	
Soil Map Unit Name: Barremills silt Ioan	ı, drainag						classification	None		
Are climatic / hydrologic conditions on the	ne site ty	oical fo	or this time of year	ar? Y	es No	(If no, exp	lain in Rema	ks.)		
Are Vegetation, Soil, or										No V
Are Vegetation, Soil, or										
SUMMARY OF FINDINGS - A										es etc
Hydrophytic Vegetation Present?	Yes_		No	-	iping point i	occiono, trai	150000, 1111	portani	ioutui	00, 010.
Hydric Soil Present?			No		Is the Sampled	Area				
Wetland Hydrology Present?			No		within a Wetlan	nd? Ye	es	No		
Remarks										
Harvested and tilled soybean fi VEGETATION – Use scientific r				of d	rown out, sam	nple point take	en at furthe	est poin	t down:	slope
VEGETATION - Ose scientific i	lames	oi pia	Absolute	Dan	minant Indicator	Dominance Te	et workehoe			
Tree Stratum (Plot size: 30 ft r				/ E/O/A	ecies? Status	Number of Dom That Are OBL,	ninant Specie	ıs .		(A)
2						Total Number o	f Dominant			
3						Species Across		0		(B)
4				_		Percent of Dom	inant Specie	9		
5				-		That Are OBL,				_ (A/B)
Sapling/Shrub Stratum (Plot size 15 15 15 15 15 15 15 15					tal Cover	OBL species FACW species FACU species FACU species UPL species Column Totals: Prevalenc Hydrophytic V 1 - Rapid T	over of: 0 0 0 0 0 0 0 ce Index = Basegetation Index for Hydro	x 1 = 0 x 2 = 0 x 3 = 0 x 4 = 0 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(B)
5.							nce Test is >			
6				-		_ 3 - Prevale				
7				_		4 - Morpho data in I	logical Adapl Remarks or d			
8				_		✓ Problemati				
9,				_				-37.40	Your Your	
10				= To	tal Cover	¹ Indicators of hybe present, unle				y must
Woody Vine Stratum (Plot size: 30)					Contraction of the Contraction o	0 t 12		
1					7:5	Hydrophytic Vegetation				
				-		Present?	Yes_	/	2000	
2,				- T-	tal Cover	Presentr	res	NC		

SOIL Sampling Point: WB-15 Wet

Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2)	O - 40 10YR 2/1 100 / Silt Loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced RSS=Sand Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduce RSS=Sand Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced RSS=Sand Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced RSS=Sand Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced RSS=Sand Matrix, MS=Masked Sand Grains. Thype: C=Concentration, D=Depletion, RM=Reduced RSS=Sand Matrix, MS=Reduced RSS=Sand Matrix, RSS=Sand Matrix, RSS=Sand RSS	O-40 10YR 2/1 100 / Silt Loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion datrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion datrix, MS=Masked Sand Grains. Type: C=Concentration. Type: C=Concentra				
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Sondy Wedox Depressions (F8) Redox Derk Surface (F7) Sandy Mucky Mineral (S1) Sondy M	- 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. - 'Const Prairie Redox (A16)	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1	0 - 40 10YR 2/1	100	Color (moist) % Type L	<u>loc² Texture Remarks</u>
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AND CONTRACTOR OF THE PROPERTY	Surface Water Present? Yes No Depth (inches):	Surface Water Present? Yes No Depth (inches):	Depth (inches): Remarks: Could not reach in the second s	tors: n of one is req erial Imagery (ncave Surface	uired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) B7) Gauge or Well Data (D9) (B8) Other (Explain in Remarks)	Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
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Project/Site: Byron Solar			City/County: Dodge	Sampling Date: 2020-10-3
Applicant/Owner: EDF Renewables	,			State: Minnesota Sampling Point: WB-16 Up
nvestigator(s): David Kuhlmann			Section, Township, Ra	ange: Section 13, T106N, R16W
andform (hillslope, terrace, etc.): Upla				(concave, convex, none): Convex
Slope (%): 5 Lat: 43.985	523		Long: -92.678279	Datum: NAD 83
Soil Map Unit Name: Winneshiek si	It Ioam, 6 t	o 12 percent s	lope, moderately	eroded NWI classification: None
Are climatic / hydrologic conditions on the	ne site typical	for this time of ye	ear? Yes No	(If no, explain in Remarks.)
				"Normal Circumstances" present? Yes No
				eeded, explain any answers in Remarks.)
				locations, transects, important features, etc
Hydrophytic Vegetation Present?	Yes	No_	Harris San San San San San San San San San San	
Hydric Soil Present?	Yes_	No	Is the Sample	
Wetland Hydrology Present?	Yes	No	within a Wetla	nd? Yes No
Remarks				
Harvested soybean fiel	d			
VEGETATION – Use scientific r	names of p	lants.		
Tree Stratum (Plot size: 30 ft r		Absolute		Dominance Test worksheet:
		% Cover	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
1				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species Across All Strata: 0 (B)
4.				Species Across Air Strata.
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
			= Total Cover	, , , , , , , , , , , , , , , , , , ,
Sapling/Shrub Stratum (Plot size 15			4 / Day 5 / Day 5	Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2				OBL species $\frac{0}{2}$ $x = \frac{0}{2}$
3				FACW species $\frac{0}{2}$ x 2 = $\frac{0}{2}$
4,				FAC species 0 $x 3 = 0$ FACU species 0 $x 4 = 0$
5			anisolo.	
Herb Stratum (Plot size: 5 ft r	- 1		= Total Cover	
1.				Column Totals: 0 (A) 0 (B)
2.				Prevalence Index = B/A = 0.0
3.				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.01
7				4 - Morphological Adaptations (Provide supporting
8				data in Remarks or on a separate sheet)
9,				Problematic Hydrophytic Vegetation¹ (Explain)
10				¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 to	ft r)	= Total Cover	he present, unless disturbed or problematic.
				Hydrophytic
1				Vegetation
2.			N	Present? Yes No

SOIL Sampling Point: WB-16 Up

	Matrix			ox Featur		1 2	43,000	670.40
inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc2	Texture	Remarks
0 - 24	10YR 2/1	98	10YR 3/4	_ 2	_ <u>C</u>	M	Silty clay	
	-							
-								
-								
			-					
-	-					-		
	-	-	-	-				
	Company of L. Lin	7					20	5 G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ype: C=Co		pletion, RM	1=Reduced Matrix, N	IS=Maske	ed Sand G	ains.		_=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
• or other states			Condu	Clayed M	Intrin (CA)			· 이렇게 많은 사람이 있다. ^^^ () - 1.20 () - 1.20 () - 1.20 () - 1.20 () - 1.20 () - 1.20 () - 1.20 () - 1.20 (
_ Histosol	(A1) ipedon (A2)			Redox (S	latrix (S4)		Coast Prair	rie Redox (A16)
_ Black His				ed Matrix (anese Masses (F12)
	n Sulfide (A4)				ineral (F1)			ow Dark Surface (TF12)
	Layers (A5)				Matrix (F2)			lain in Remarks)
2 cm Mu			Deplet	ed Matrix	(F3)			
_ Depleted	Below Dark Surfa	ce (A11)	✓ Redox	Dark Sur	face (F6)			
	rk Surface (A12)				Surface (F7)		ydrophytic vegetation and
	lucky Mineral (S1)	c de	Redox	Depressi	ons (F8)			drology must be present,
	cky Peat or Peat (S						unless dist	urbed or problematic
	ayer (if observed):						
Type:			_				Hydric Soil Pre	sent? Yes No
Depth (inc		t be rea	ached, A12 a	ıssum	ed			
Depth (inc emarks: 3 horizo	on could not	t be rea	ached, A12 a	ıssum	ed			
Depth (included included n could not		ached, A12 a	ıssum	ed				
Depth (included included n could not GY drology Indicators	ı.	4 5 4		ed				
Depth (inclination of the property of the prop	on could not GY drology Indicators eators (minimum of	ı.	ired; check all that a	ipply)			Secondary In	ndicators (minimum of two require
Depth (inclemarks: 3 horizo YDROLOG Vetland Hydrimary Indic Surface	GY drology Indicators eators (minimum of	ı.	uired; check all that a	ipply) ained Lea	ves (B9)		Secondary Ir	ndicators (minimum of two require Soil Cracks (B6)
Depth (inclination) Permarks: TOROLOG Petland Hydrimary Indication Surface Note High War	GY drology Indicators ators (minimum of Water (A1) ter Table (A2)	ı.	uired: check all that a Water-St Aquatic F	pply) ained Lea auna (B1	ves (B9)		Secondary Ir Surface Drainage	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10)
Depth (inclination) Depth (inclination) DROLOG Detland Hydrimary Indice Surface High Wa Saturation	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3)	ı.	uired: check all that a Water-Sta Aquatic F True Aqu	ipply) ained Lea auna (B1 atic Plant:	ves (B9) 3) s (B14)		Secondary Ir Surface Drainage Dry-Sea	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
Depth (incomercial contents) DROLOG DROLOG Metland Hydrimary Indice Surface High Water Mate	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)	ı.	uired: check all that a Water-Sta Aquatic F True Aqu Hydroger	ipply) ained Lea auna (B1) atic Plants	ves (B9) 3) s (B14) Odor (C1)	ving Roots	Secondary Ir Surface Drainage Dry-Sea Crayfish	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)
Depth (inclemants: 3 horizo /DROLOG /etland Hydrimary Indic Surface V High Wa Saturatio Water Mi Sedimen	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)	ı.	uired: check all that a Water-Sta Aquatic F True Aqu Hydroger Oxidized	ipply) ained Lea auna (B1, atic Plants a Sulfide (Rhizosph	ves (B9) 3) s (B14)		Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Depth (inclemants: 3 horizo (DROLOG Vetland Hydrimary Indic Surface V High Wa Saturatio Water M	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)	ı.	uired: check all that a Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence	apply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1) eres on Liv	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)
Pepth (inclemants: 3 horizo YDROLOG Vetland Hydrimary Indic Surface V High Wa Saturatio Water Mary Sediment Drift Dep Algal Mar	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3)	ı.	uired: check all that a Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	apply) ained Lea auna (B1 atic Plant a Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1) eres on Liv eed Iron (C	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inclements: 3 horizo YDROLOG Vetland Hydrimary Indic Surface High Wa Saturatio Water Mi Sediment Drift Dep Algal Ma Iron Dep	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4)	:: one is requ	uired: check all that a Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc	ipply) ained Lea fauna (B1 atic Plants Sulfide C Rhizosph of Reduct on Reduct k Surface	ves (B9) 3) s (B14) Odor (C1) eres on Lived Iron (Cotion in Tille	4)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor	ndicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
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US Army Corps of Engineers Midwest Region – Version 2.0

Project/Site: Byron Solar		City/County: Dodge		Sampling Date: 2020-10-31
Applicant/Owner: EDF Renewables		6.000	State: Minnesota	Sampling Point: WB-16 Wet
Investigator(s): David Kuhlmann		Section, Township, Ra	nge: Section 13, T106	6N, R16W
			(concave, convex, none):	_
Slope (%): 2 Lat: 43.985572		Long: -92.678279		Datum: NAD 83
Soil Map Unit Name: Winneshiek silt Ioam, 6	to 12 percent s	lope, moderately e	eroded NWI classific	ation: PEM1B
Are climatic / hydrologic conditions on the site typic	al for this time of ye	ar? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology _				
Are Vegetation, Soil, or Hydrology _			eeded, explain any answe	
SUMMARY OF FINDINGS - Attach site				
Hydrophytic Vegetation Present? Yes	No	141 1/2 107 117		
Hydric Soil Present? Yes	No	Is the Sampled		
Wetland Hydrology Present? Yes	No	within a Wetlan	nd? Yes	No
Remarks:				
Wetland swale				
VEGETATION – Use scientific names of	plants.			
Tree Stratum (Plot size: 30 ft r)	Absolute P/ Cover		Dominance Test work	
1.		Species? Status	Number of Dominant Sp That Are OBL, FACW, of	
2			A CONTRACTOR OF THE PARTY OF TH	
3.			Total Number of Domini Species Across All Stra	
4.				
5			Percent of Dominant Sp That Are OBL, FACW, of	
15 ft r	- Land	= Total Cover	1000	
Sapling/Shrub Stratum (Plot size 15 ft r			Prevalence Index work Total % Cover of:	
1				
2			FACW species 100	x 2 = 200
3			FAC species 0	x 3 = 0
5			FACU species 0	
A		= Total Cover	UPL species 0	× 5 = 0
Herb Stratum (Plot size: 5 ft r)		A CONTRACT OF THE PARTY OF THE	Column Totals: 100	(A) 200 (B)
1. Phalaris arundinacea	95	FACW		
2, Urtica dioica	5	FACW	Prevalence Index	STATE OF THE STATE
3.			Hydrophytic Vegetation	
4			1 - Rapid Test for H	
5			2 - Dominance Tes	
6		·	✓ 3 - Prevalence Inde	
7			4 - Morphological A	daptations ¹ (Provide supporting s or on a separate sheet)
8				phytic Vegetation (Explain)
9,			1	The state of the s
10		= Total Cover		and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	_)	- Total Cover	be present, unless distu	arbed or problematic.
1.			Hydrophytic	
2.			Vegetation	V
		= Total Cover	Present? Yes	s No
Remarks: (Include photo numbers here or on a se	eparate sheet.)		L.	

SOIL Sampling Point: WB-16 Wet

Depth _	Matrix			dox Featur			2.1	67.40
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc²	Texture	Remarks
0 - 24	10YR 2/1	75	10YR 3/4	25	<u>C</u>	M	Clay	
			-					
						_		
			A-T	-				
		_				-	والسجيف	
		oletion, RM	=Reduced Matrix, I	MS=Maske	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
ydric Soil Inc								r Problematic Hydric Soils ³ :
_ Histosol (A				Gleyed N				airie Redox (A16)
 Histic Epip Black Histi 				Redox (S) ed Matrix (Dark Sur	race (S7) ganese Masses (F12)
	Sulfide (A4)			y Mucky M	be a few and the same of the s			llow Dark Surface (TF12)
	ayers (A5)			y Gleyed N				(plain in Remarks)
2 cm Muck				ted Matrix			_ 000.00	,
	Below Dark Surface	ce (A11)		x Dark Sur				
	Surface (A12)			ted Dark S	The state of the s)		hydrophytic vegetation and
	cky Mineral (S1)		Redox	x Depressi	ons (F8)			ydrology must be present,
	ky Peat or Peat (S						unless di	sturbed or problematic
	yer (if observed)	5.						
Type:							Hydric Soil Pr	esent? Yes No
- Curtous services	.7.							
Depth (inche	es)::						1	
emarks:								
Remarks:	Υ							
Pemarks: YDROLOG Vetland Hydro	Y ology Indicators		ired, check all that	anniv)			Secondary	Indicators (minimum of two require
YDROLOG Vetland Hydro	Y ology Indicators tors (minimum of		ired; check all that		vec (PO)			WE ALL DOWN THE STATE OF THE ST
YDROLOG Vetland Hydro Vetland Indicat Surface W	Y ology Indicators tors (minimum of later (A1)		Water-S	tained Lea			Surfac	e Soil Cracks (B6)
YDROLOG Vetland Hydro Surface W High Wate	Y ology Indicators tors (minimum of later (A1) er Table (A2)		Water-S Aquatic	tained Lea Fauna (B1	3)		Surfac Draina	e Soil Cracks (B6) ge Patterns (B10)
YDROLOG Vetland Hydro Primary Indicat Surface W. High Wate Saturation	Y ology Indicators tors (minimum of ater (A1) or Table (A2) (A3)		Water-S Aquatic True Aqu	tained Lea Fauna (B1 uatic Plant	3) s (B14)		Surfac Draina Dry-Se	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2)
YDROLOG Vetland Hydro Surface W High Wate Saturation Water Mar	Y ology Indicators tors (minimum of ater (A1) or Table (A2) (A3) cks (B1)		Water-S Aquatic True Aqu Hydroge	tained Lea Fauna (B1) uatic Plant n Sulfide (3) s (B14) Odor (C1)	vina Roots	Surfac Draina Dry-Se Crayfis	e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8)
YDROLOG Vetland Hydro Surface W High Wate Saturation Water Mar Sediment I	Y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2)		Water-S Aquatic True Aqu Hydroge Oxidized	tained Lea Fauna (B1 uatic Plant n Sulfide (d Rhizosph	3) s (B14) Odor (C1) eres on Liv		Surfac Draina Dry-Se Crayfis s (C3) Satura	e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
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Project/Site: Byron Solar		City/Cour	nty: Dodge	Sampling Date: 2020-10-31
Applicant/Owner: EDF Renewables				State: Minnesota Sampling Point: WB-17 Up
nvestigator(s): David Kuhlmann		Section,	Township, Ra	nge: Section 2, T106N, R16W
andform (hillslope, terrace, etc.): Upland, Swale				(concave, convex, none): Concave
Slope (%): 2-5 Lat: 44.018064		Long: -	92.698863	Datum: NAD 83
Soil Map Unit Name: Clyde-Floyd complex, 1 to	o 4 percent sl	opes		NWI classification: R4SBC
Are climatic / hydrologic conditions on the site typical	for this time of ye	ar? Yes		
				"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Remarks.)
				ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No			
	No	Is	the Sampled	
	No	W	ithin a Wetlar	nd? Yes No
Remarks:				
Grassy swale dominated by FAC	CU and FA	C spe	ecies	
VEGETATION – Use scientific names of pl	ante			
PEGETATION - Ose scientific flames of pr	Absolute	Domina	int Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover			Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2		_		Total Number of Dominant
3		-		Species Across All Strata: 3 (B)
4		_		Percent of Dominant Species
5		-		That Are OBL, FACW, or FAC: 67 (A/B)
Sapling/Shrub Stratum (Plot size 15 ft r	· -	= Total C	Cover	Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2.				OBL species 0 x1 = 0
3.				FACW species 0 x 2 = 0
4,				FAC species 60 x 3 = 180
5.				FACU species 25 x 4 = 100
		= Total C	Cover	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r) 1 Setaria pumila	40	~	FAC	Column Totals: <u>85</u> (A) <u>280</u> (B)
2. Panicum capillare	20	-	FAC	Prevalence Index = B/A = 3.3
3 Phleum pratense	$-\frac{20}{20}$	-	FACU	Hydrophytic Vegetation Indicators:
4 Taraxacum officinale	5	-	FACU	1 - Rapid Test for Hydrophytic Vegetation
	_=	-		✓ 2 - Dominance Test is >50%
5 6		_		3 - Prevalence Index is ≤3.0 ¹
7		-		4 - Morphological Adaptations (Provide supporting
8			FACU	data in Remarks or on a separate sheet)
9,				Problematic Hydrophytic Vegetation (Explain)
10.				
Woody Vine Stratum (Plot size: 30 ft r		= Total C	Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				Hydrophytic
Y1 				Hydrophytic Vegetation
2.				
2		= Total C	Cover	Present? Yes No

SOIL Sampling Point: WB-17 Up

Depth	Matrix			Redox Featur			41	67.4
inches)	Color (moist)	%	Color (mois		Type¹	Loc ²	Texture	Remarks
0 - 24	10YR 2/1	95	10YR 3/4	5	_ <u>C</u>	<u>M</u>	Silty Clay Loam	
	-							
-								
			-					
	-		-			_		
	_	-	-	_				
-		-			-	-		
	oncentration, D=De	epletion, R	M=Reduced Mat	rix, MS=Mask	ed Sand Gr	ains.		L=Pore Lining, M=Matrix.
• or otherwise	Indicators:							Problematic Hydric Soils ³ :
_ Histosol	die de la constante de la cons			andy Gleyed N	200		Coast Pra	nirie Redox (A16)
	oipedon (A2) istic (A3)			andy Redox (8 tripped Matrix				ganese Masses (F12)
	n Sulfide (A4)			amy Mucky M				low Dark Surface (TF12)
	Layers (A5)			amy Gleyed I				plain in Remarks)
	uck (A10)			epleted Matrix				
	d Below Dark Surfa	ice (A11)		edox Dark Sui			4000000	
	ark Surface (A12)			epleted Dark S)		hydrophytic vegetation and
	lucky Mineral (S1) ucky Peat or Peat (53)	_ 8	edox Depress	ions (F8)			ydrology must be present, sturbed or problematic.
	Layer (if observed						unless dis	starbed of problematic
Type:	-,	,,,						
							Hydric Soil Pre	esent? Yes No
Depth (in- temarks:	ches):		_					
Remarks:								
Remarks: YDROLO Vetland Hy	GY drology Indicators							
Remarks: YDROLO Vetland Hy	GY		uired; check all t	hat apply)				
YDROLO Vetland Hy Primary India Surface	GY drology Indicators cators (minimum of Water (A1)		Wate	er-Stained Lea			Secondary Surface	Indicators (minimum of two require a Soil Cracks (B6)
YDROLO Vetland Hy Surface High Wa	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Wate	er-Stained Lea atic Fauna (B1	3)		Secondary Surface Draina	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10)
YDROLO Vetland Hy Surface High Wa Saturati	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Wate Aqua True	er-Stained Lea atic Fauna (B1 Aquatic Plan	3) s (B14)		Secondary Surface Drainag Dry-Se	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
YDROLO Vetland Hy Surface High Wa Saturati Water M	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1)		Wate Aqua True Hydr	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide	3) ts (B14) Odor (C1)		Secondary Surface Drainag Dry-See Crayfis	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8)
YDROLO Vetland Hy Surface High Wa Saturati Water M Sedimer	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		Wate Aqua True Hydi Oxid	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide lized Rhizosph	3) ts (B14) Odor (C1) neres on Liv		Secondary Surface Drainag Dry-See Crayfis	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9)
YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimet Drift De	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3)		Wate Aqua True Hydi Oxid Pres	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide ized Rhizosph ence of Redu	3) ts (B14) Odor (C1) neres on Liv ced Iron (C	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimei Drift Dej Algal Ma	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4)		Wate Aque True Hydr Oxid Pres Rece	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (ized Rhizosph rence of Redu- ent Iron Reducent Iron Reducent	3) cs (B14) Odor (C1) neres on Liv ced Iron (C	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimel Drift Del Algal Ma Iron Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one is req	Wate Aque True Hydi Oxid Pres Rece Thin	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface	3) cs (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimet Drift Det Algal Ma Iron Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4)	one is req	Wate Aqua True Hydi Oxid Pres Reco Thin [B7) Gau	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (ized Rhizosph rence of Redu- ent Iron Reducent Iron Reducent	is (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille c (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLO Vetland Hy Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca	one is req	Wate Aqua True Hydi Oxid Pres Reco Thin [B7) Gau	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface ge or Well Dat	is (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille c (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca	I Imagery i	Wate Aqua True Hydi Oxid Pres Reco Thin [B7) Gau	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface ge or Well Dat er (Explain in F	is (B14) Odor (C1) neres on Liv ced Iron (C ction in Tille c (C7) ta (D9)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLO Netland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca- vations: er Present?	I Imagery ive Surface	Wate Aqua True Hydi Oxid Pres Recc Thin (B7) Gau a (B8) Other	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface ge or Well Date (Explain in F	3) Is (B14) Odor (C1) heres on Liv ced Iron (C ction in Tille (C7) Is (D9) Remarks)	4)	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water Table	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present?	I Imagery ive Surface	Wate Aqua True Hydi Oxid Pres Reco Thin (B7) Gau (B8) Othe	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface ge or Well Dater (Explain in F oth (inches): _ oth (inches): _	is (B14) Odor (C1) heres on Liv ced Iron (C ction in Tille c (C7) is (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted FAC-No	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
YDROLO Netland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wat Nater Table Saturation P includes cal	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? present?	I Imagery ive Surface Yes Yes	Wate Aqua True Hydron Oxid Pres Record Thin Gauge (B7) Gauge Othe No	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface ge or Well Dater (Explain in F oth (inches): _ oth (inches); _ oth (inches); _	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Ction in Tille (C7) Ita (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted FAC-No	Indicators (minimum of two requires a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
YDROLO Netland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wat Nater Table Saturation P includes cal	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present?	I Imagery ive Surface Yes Yes	Wate Aqua True Hydron Oxid Pres Record Thin Gauge (B7) Gauge Othe No	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface ge or Well Dater (Explain in F oth (inches): _ oth (inches); _ oth (inches); _	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Ction in Tille (C7) Ita (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted FAC-No	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water Table Saturation Pa Includes cal Describe Re	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? present?	I Imagery ive Surface Yes Yes	Wate Aqua True Hydron Oxid Pres Record Thin Gauge (B7) Gauge Othe No	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface ge or Well Dater (Explain in F oth (inches): _ oth (inches); _ oth (inches); _	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Ction in Tille (C7) Ita (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted FAC-No	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Water Table Saturation Princludes car	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? present?	I Imagery ive Surface Yes Yes	Wate Aqua True Hydron Oxid Pres Record Thin Gauge (B7) Gauge Othe No	er-Stained Lea atic Fauna (B1 Aquatic Plant rogen Sulfide (lized Rhizosph ence of Redu- ent Iron Reduc Muck Surface ge or Well Dater (Explain in F oth (inches): _ oth (inches); _ oth (inches); _	3) Is (B14) Odor (C1) Ineres on Liv Ced Iron (C Ction in Tille (C7) Ita (D9) Remarks)	4) ed Soils (C	Secondary Surface Drainag Dry-Se Crayfis (C3) Saturat Stunted FAC-No	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) ion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)

Project/Site: Byron Solar				City/Co.	inty: Dodge		Sam	pling Da	te: 2020	0-10-31
Applicant/Owner: EDF Renewables						State: Minne	sota Sam	pling Poi	nt WB-	17 Wet
Investigator(s): David Kuhlmann				Section	Township, Ra	nge: Section 02,	T106N, F	R16W		
Landform (hillslope, terrace, etc.): Ditch						(concave, convex, n				
Slope (%): 0-2 Lat: 44.0182	201			Long:	92.698342		Datu	m NAD	83	
Soil Map Unit Name: Clyde-Floyd co		, 1 to	4 percent sl	opes		NWI cla	assification:	R4SB	С	
Are climatic / hydrologic conditions on the	e site typ	oical fo	r this time of year	ar? Yes	V No	(If no, explain	n in Remark	ks.)		
Are Vegetation, Soil, or F									~	No
Are Vegetation, Soil, or H						eded, explain any a				
SUMMARY OF FINDINGS - At										as atc
				Samp	ing point i	ocations, trans	ects, mi	portani	licatui	es, etc
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes_	~	No	1	s the Sampled	Area				
Wetland Hydrology Present?			No		vithin a Wetlar		· /	No		
Remarks:	103_				00 U- C- X-7	1014				
Convergence of swale and road	side d	itch c	coincides wit	h chan	ge in veget	ation from yellov	w foxtail (domina	ited upl	and
swale to a reed canary grass, ca					-	-				
VEGETATION – Use scientific n	ames i	of pla	nts							
			Absolute	Domin	ant Indicator	Dominance Test	worksheet	to		
Tree Stratum (Plot size: 30 ft r)				s? Status	Number of Domin	11-11-11-1			
1						That Are OBL, FA				(A)
2				_		Total Number of E	Dominant			
3			_(_		Species Across A	Il Strata:	1_		(B)
4				_		Percent of Domina	ant Species			
5				¥4.1	-	That Are OBL, FA	CW, or FA	c: <u>100</u>)	_ (A/B)
Sapling/Shrub Stratum (Plot size 15	ft r) —	= Total	Cover	Prevalence Index	workshee	et:		
10					300	Total % Cove				
2						OBL species C				_
3						FACW species 1	00	x 2 =		_
4,						FAC species C)	x 3 =		_
5				_		FACU species _C				-
Herb Stratum (Plot size: 5 ft r			1	= Total	Cover	Of Lapecies	00	x 5 = _		
1 Phalaris arundinacea			100	~	FACW	Column Totals: 1	00	(A)	200	(B)
2,						Prevalence	Index = B//	A = 2.0		
3						Hydrophytic Veg	etation Inc	licators:		
4.						✓ 1 - Rapid Tes	t for Hydro	phytic Ve	egetation	
5.						✓ 2 - Dominano	e Test is >	50%		
6						✓ 3 - Prevalenc	e Index is ≤	≤3.0 ¹		
7.						4 - Morpholog				
8							marks or or			
9,			بتسدا			Problematic H	Tydrophytic	vegetat	ion (Exp	iain)
10						1Indicators of hydr	ic soil and	wetland	hydrology	must
Woody Vine Stratum (Plot size: 30 ft)	100%		Cover	be present, unless				must
Company of the compan				-		Hydrophytic				
1.						Vocatation				
1 2				= Total	0	Vegetation Present?	Yes_	No		

SOIL Sampling Point: WB-17 Wet

Depth Mat			lox Feature			2.1	47.4
(inches) Color (mois		Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks
0 - 14 10YR 2/1	95	10YR 3/4	5	С	PL / M	Clay	
-							
		-					
				_			
-							
Type: C=Concentration, D=	Depletion, RI	M=Reduced Matrix, N	//S=Maske	d Sand Gr	ains.	² Location: Pl	=Pore Lining, M=Matrix.
ydric Soil Indicators:							Problematic Hydric Soils ³ :
Histosol (A1)		Sandy	Gleyed M	atrix (S4)		Coast Prai	rie Redox (A16)
Histic Epipedon (A2)			Redox (S			Dark Surfa	ce (S7)
Black Histic (A3)		Stripp	ed Matrix (S6)			anese Masses (F12)
_ Hydrogen Sulfide (A4)			Mucky Mi				ow Dark Surface (TF12)
_ Stratified Layers (A5)			Gleyed M			Other (Exp	lain in Remarks)
_ 2 cm Muck (A10)			ted Matrix				
_ Depleted Below Dark St			Dark Surf			Standington at t	and an also also are a second
Thick Dark Surface (A1: Sandy Mucky Mineral (S			ted Dark Si Depression	The state of the s)		hydrophytic vegetation and drology must be present,
_ 5 cm Mucky Peat or Pea			Depression) (FO)			urbed or problematic.
estrictive Layer (if obser						T direct ordi	arbed at propertiane
Type:	557						
1,160.						Hydric Soil Pre	sent? Yes No
Depth (inches);						The Administration of the Control of	
Depth (inches):Remarks:							
Remarks:							
remarks:							
Remarks: YDROLOGY Vetland Hydrology Indicat							
Primary Indicators (minimum			water to the same	- 222			
YDROLOGY Vetland Hydrology Indicators (minimum Surface Water (A1)		Water-Si	ained Leav	0.00		Surface	Soil Cracks (B6)
YDROLOGY Vetland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-St	ained Leav Fauna (B13	3)		Surface Drainag	Soil Cracks (B6) e Patterns (B10)
YDROLOGY Vetland Hydrology Indicate Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Si Aquatic I True Aqu	ained Leav Fauna (B13 uatic Plants	3) s (B14)		Surface Drainag Dry-Sea	Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
YDROLOGY Vetland Hydrology Indicatorismary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is req	Water-Si Aquatic I True Aqu Hydroge	ained Leav Fauna (B13 uatic Plants n Sulfide C	3) s (B14) odor (C1)		Surface Drainag Dry-Sea Crayfish	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	of one is req	Water-Si Aquatic I True Aqu Hydroge Oxidized	ained Leav Fauna (B13 uatic Plants n Sulfide O Rhizosphe	3) s (B14) odor (C1) eres on Liv	100	Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is req	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence	ained Leav Fauna (B13 uatic Plants n Sulfide C Rhizosphe e of Reduc	3) s (B14) odor (C1) eres on Liv ed Iron (C	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one is req	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I	cained Leav Fauna (B13 patic Plants in Sulfide C Rhizosphe e of Reduction Reduction	3) s (B14) odor (C1) eres on Liv ed Iron (C- tion in Tille	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one is req	Water-Si Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Mue	ained Leav Fauna (B13 uatic Plants in Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface	B) s (B14) clor (C1) eres on Liv ed Iron (C- tion in Tille (C7)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on As	of one is req	Water-Si Aquatic I Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc	ained Leav Fauna (B13 natic Plants n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface r Well Data	B) s (B14) clor (C1) eres on Liv ed Iron (C- tion in Tille (C7) a (D9)	4)	Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor	Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)
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Westwood

Appendix B

Wetland Delineation Photographs

Byron Solar Project

Dodge and Olmsted Counties, Minnesota







Attributes













Wetland ID



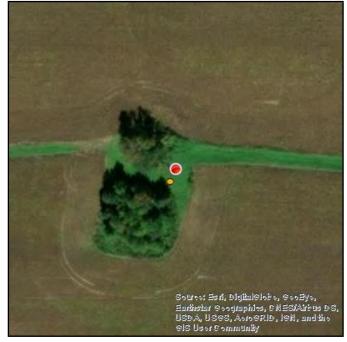




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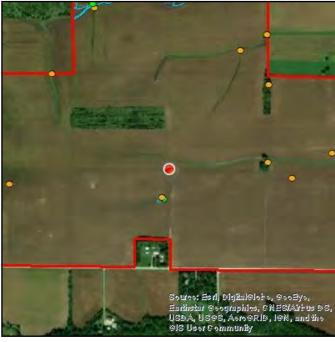


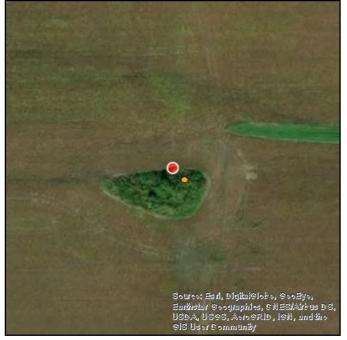


Wetland ID

NW-04



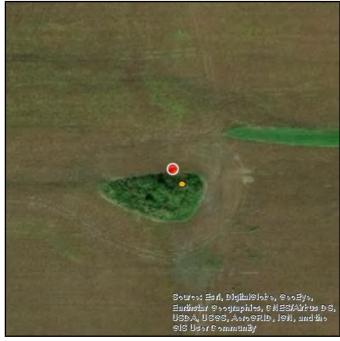




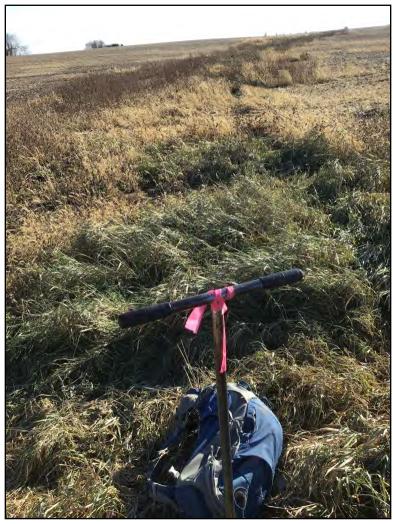
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Attributes Wetland ID NW-05







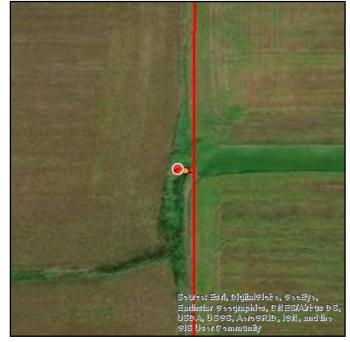






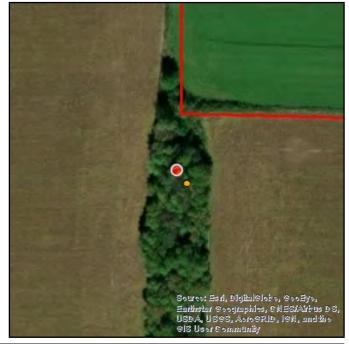


















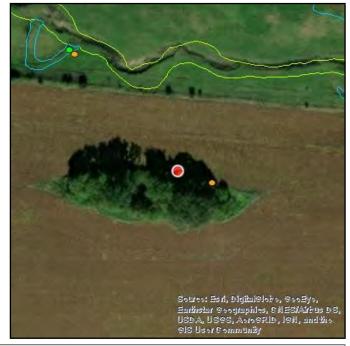












Wetland ID

