## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	[	3R								Date:	09/25/14	
Applicant:		nbridge								County:	Pennington	
Investigators		AJ/BJC			Subregio	on (MLRA	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	169A		I			•	I Classification:					
Landform:	Dip			– Lo	cal Relief:					Sample Point	:: w-154n44w34-e3	
Slope (%):	0 - 2%		Latitude: 48.11		Longitude:		7779	Datum:				
	hydrologic cond	litions on the sit							□ No	Section:		
Are Vegetation		⊐, or Hydrology			,		e normal circum			Township:		
Are Vegetation		⊐, or Hydrology	• •				⊠ Yes			Range:	Dir:	
	OF FINDINGS											
	Vegetation Pres	sent?	Yes					Hydric Soil	s Present?	Yes		
• • •	drology Present		Yes							t Within A W	/etland? Yes	
Remarks:				prass prairie	cordoras	s and re	ed canary gras					
	/		nor a long to bag	jiaco, prano	ooragraa	o, and ro	Joa oanary grad	or miparan				
HYDROLOG	V											
-	/drology Indica	ators (Check al	I that apply; Mi	nimum of on	e primary	or two se	econdary requir	'ed) <b>:</b>	•			
Primary:		4		-	D44 Colt	Ornet			Secondary:	DC Surface (		
	A1 - Surface Wa A2 - High Water				B11 - Salt B13 - Aqua		3			B6 - Surface S B8 - Sparsely	Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainag		
	B1 - Water Mark	S			C2 - Dry S	Season Wa	ater Table				Rhizospheres on Living Roots (tilled)	
	B2 - Sediment D	•					spheres on Living	Roots (not tille	€ □	C8 - Crayfish		
	B3 - Drift Deposi						educed Iron				n Visible on Aerial Imagery	
	B4 - Algal Mat or B5 - Iron Deposi				C7 - Thin M Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu		
		√isible on Aerial In	nagery			Janij					aved Hummocks (LRR F)	
	B9 - Water-Stain		lagery									
_												
Field Observ	vations:											
Surface Wate		es 🗆	Depth		(in.)							
Water Table			Depth: Depth:		(in.) (in.)			Wetland H	lydrology l	Present?	Y	
Saturation Pr			Depth: Depth:		(in.) (in.)							
			•									
	corded Data (stre	am gauge, mon	itoring well, aer	ial photos, pre	evious insp	pections),	, if available:					
Remarks:	Indicators of w	vetland hydrolog	gy are present	· · · · · · · · · · · · · · · · · · ·								
SOILS												
	iption (Describe											
(Type: C=Concer	ntration, D=Depletic	n, RM=Reducea ivi	latrix, CS=Covered	J/Coated Sand C	Grains; Loca	ition: PL=P	ore Lining, M=Matri	ix)				
	<del></del>	Matrix		<del></del>		N Aotti			<u> </u>	T		
		Matrix			A = ! = 1)	Mottl			-		Deve entre	
Depth (In.)		olor (Moist)	%	Color (I	vioist)	%	Туре	Location	Texture	<b> </b>	Remarks	
0-8	Hue_10YR	2/1	100			<b>_</b>			С			
8-12	Hue_10YR	4/2	95	Hue_10YR		5	С	M	SC	ļ		
12-18	Hue_2.5Y	5/2	95	Hue_10YR	5/8	5	C	M	COS	with abundant gr	avel	
NRCS Hydr	ric Soil Field In	dicators (cl	heck here if inc	licators are r	ot presen	nt):				L		
					ю р				Indicators f	or Problemati	ic Soils <sup>1</sup>	
	A1- Histosol			S5 - Sandy R	edox					uck (LRR I, J)		
	A2 - Histic Epipe	don		S6 - Stripped								
	A3 - Black Histic A3 - Black Histic A3 - Black Histic A3 - Black Histic D F1 - Loamy Mucky Miner						□ S7 - Dark Surface (LRR G)					
	A4 - Hydrogen S	ydrogen Sulfide D F2 - Loamy Gleyed Matrix D F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)								ONS (LRR H, outside MLRA 72, 73)		
	A5 - Stratified La	- Stratified Layers (LRR F) - F3 - Depleted Matrix - T52 - Reduced Vertic										
	A A A A A A A A A A A A A A A A A A A	A9 - 1 cm Muck (LRR FGH) A11 Depleted Below Dark Surface TF2 - Red Pa								0		
				A11 - Depleted Below Dark Surface□F7 - Depleted Dark Surface□TF12 - VeA12 - Thick Dark Surface□F8 - Redox Depressions□Other (Ex								
	A11 - Depleted E	Below Dark Surfac	ce 🗆	•					Other (Evola	in in Romarke		
	A11 - Depleted E A12 - Thick Dark	Below Dark Surfac < Surface	ce 🗆	F8 - Redox D	epressions	;	_RA 72. 73 of LRR		Other (Expla	ain in Remarks)	)	
	A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck	Below Dark Surfac < Surface ky Mineral		F8 - Redox D	epressions	;	LRA 72, 73 of LRR		Other (Expla	ain in Remarks	)	
	A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc	Below Dark Surfac < Surface	ce LRR G, H)	F8 - Redox D	epressions	;	LRA 72, 73 of LRR			,	) ation and wetland hydrology must be present,	
	A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc	Below Dark Surfac < Surface ky Mineral ky Peat or Peat (L y Peat or Peat (LR	ce LRR G, H)	F8 - Redox D	epressions	;	LRA 72, 73 of LRR	п R Н)	<sup>1</sup> Indicators of h	,	ation and wetland hydrology must be present,	
	A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc S3 - 5 cm Mucky	Below Dark Surfac < Surface ky Mineral ky Peat or Peat (L y Peat or Peat (LR	ce LRR G, H)	F8 - Redox D	epressions	;	LRA 72, 73 of LRR	п R Н)	<sup>1</sup> Indicators of h	ydrophytic vegeta	ation and wetland hydrology must be present,	
	A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc S3 - 5 cm Mucky S4 - Sandy Gley	Below Dark Surfac < Surface ky Mineral ky Peat or Peat (L y Peat or Peat (LR	ce LRR G, H)	F8 - Redox D F16 - High Pla	epressions ains Depres	;		п R H)	<sup>1</sup> Indicators of h unless disturbe	ydrophytic vegeta	ation and wetland hydrology must be present,	
	A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc S3 - 5 cm Mucky S4 - Sandy Gley	Below Dark Surfac < Surface ky Mineral ky Peat or Peat (L y Peat or Peat (LR	ce LRR G, H)	F8 - Redox D	epressions ains Depres	;		п R Н)	<sup>1</sup> Indicators of h unless disturbe	ydrophytic vegeta	ation and wetland hydrology must be present,	
	A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc S3 - 5 cm Mucky S4 - Sandy Gleye	Below Dark Surfac < Surface ky Mineral ky Peat or Peat (L y Peat or Peat (LR ed Matrix	ce LRR G, H) RR F)	F8 - Redox D F16 - High Pla Depth:	epressions ains Depres	ssions (ML	Hydric So	I Present?	<sup>1</sup> Indicators of h unless disturbe	ydrophytic vegeta ed or problematic.	ation and wetland hydrology must be present,	
Restrictive Layer	A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc S3 - 5 cm Mucky S4 - Sandy Gleye or Type: The soil has a	Below Dark Surfac < Surface ky Mineral ky Peat or Peat (L y Peat or Peat (LR ed Matrix	Ce LRR G, H) RR F) face to 8 inches	F8 - Redox D F16 - High Pla Depth: s with deplete	epressions ains Depres	ssions (ML	Hydric So	I Present?	<sup>1</sup> Indicators of h unless disturbe	ydrophytic vegeta ed or problematic.	ation and wetland hydrology must be present,	

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n44w34-e3			
-								
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 4 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: <u>Multiply by:</u>			
10.					OBL spp. $10   X   1 =   10$			
	 Total Cover =	0			FACW spp. 95 x 2 = 190			
	-		_		FAC spp. 5 $X 3 = 15$			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACW spp. 95 x 2 = 190   FAC spp. 5 x 3 = 15   FACU spp. 5 x 4 = 20			
1.	Populus tremuloides	5	Y	FAC	UPL spp. 0 $x 5 = 0$			
2.		-		-				
3.					Total 115 (A) 235 (B)			
4.	-1							
5.					Prevalence Index = B/A = <b>2.043</b>			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.								
10.	 Total Cover =	5			$\frac{X}{X}  Dominance Test is > 50\%$			
		5			<u>X</u> Prevalence Index is $\leq 3.0$ *			
					Morphological Adaptations (Explain) *			
	(Plot size: 5 ft. radius)			<b>E A O A A</b>	Problem Hydrophytic Vegetation (Explain) *			
1.	Calamagrostis stricta	25	<u> </u>	FACW				
2.	Spartina pectinata	25	Y	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Phalaris arundinacea	25	Y	FACW	present, unless disturbed or problematic.			
4.	Carex pellita	10	N	OBL	Definitions of Vegetation Strata:			
5.	Agrostis gigantea	10	N	FACW				
6	Juncus arcticus	5	N	FACW	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Symphyotrichum lanceolatum	5	N	FACW	height (DBH), regardless of height.			
8.	Andropogon gerardii	5	Ν	FACU				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.					1			
14.					1			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	110						
		110	_					
Woody Vino St	tratum (Plot size: 30 ft. radius)							
1								
2.								
3.					Hydrophytic Vegetation Brecent?			
	<u> </u>				Hydrophytic Vegetation Present? Y			
5.								
4.	Tatal Oaver	0						
Deressie	Total Cover =	0						
Remarks:	A wet meadow dominated by northern reedgr	ass, prairi	le cordgras	ss, and re	ed canary grass. Hydrophytic vegetation is present.			
Additional Remarks:								