WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit:	ors: BCS/BEH 143A				or LRR): I Classification	MLRA 56		Date: County: State:	07/24/14 Pennington MN		
	Landform: Dip				cal Relief:		0400007	Determ	_	Sample Point	: w-154n45w13-aw
Slope (%):	0 - 2%	nditions on the sit	Latitude: 48.				8106667	Datum: ☑ Yes	: □ No	Section:	
Are Vegetatio	• •	□, or Hydrology				1	e normal circur			Township:	
Are Vegetation	•	□, or Hydrology	•				☑ Yes		0001111	Range:	Dir:
SUMMARY C										0	
Hydrophytic Y	Vegetation Pr	resent?	Yes		_			Hydric Soi	Is Present?	' Yes	
Wetland Hyd			Yes		_					nt Within A W	
Remarks:	The wetland grass and s		looded basin	located withir	n an agricu	ltural alfa	alfa field adjac	ent to a grav	vel county r	oad. The veg	etation is dominated by barnyard
HYDROLOG	Y										
Wetland Hy	A1 - Surface V A2 - High Wat A3 - Saturatio B1 - Water Ma B2 - Sediment B3 - Drift Dep B4 - Algal Mat B5 - Iron Depo	er Table n arks t Deposits osits or Crust osits n Visible on Aerial In		Vinimum of or	B11 - Salt B13 - Aqua C1 - Hydro C2 - Dry S C3 - Oxidiz	Crust atic Fauna ogen Sulfid eason Wa zed Rhizos ence of Re Juck Surfa	le Odor Iter Table spheres on Living duced Iron		Secondary	B6 - Surface S B8 - Sparsely B10 - Drainag C3 - Oxidized C8 - Crayfish C9 - Saturatio D2 - Geomorp D5 - FAC-Neu	Vegetated Concave Surface e Patterns Rhizospheres on Living Roots (tilled) Burrows n Visible on Aerial Imagery whic Position
Field Observ Surface Wate Water Table Saturation Pr Describe Reco	er Present? Present? resent?	Yes ☑ Yes ☑ Yes ☑	Dep Dep Dep itoring well, a	th: 0 th: 0	_ (in.) _ (in.) _ (in.) evious insp	pections),	if available:	Wetland H	lydrology	Present?	<u>Y</u>
Remarks: One inch of surface water is present at the sample point.											
				e sample point							
SOILS Profile Descri	iption (Descri	be to the depth ne	eded to doc	ument the indi	cator or co						
SOILS Profile Descri	iption (Descri	be to the depth ne etion, RM=Reduced M	eded to doc	ument the indi	cator or co	tion: PL=P	ore Lining, M=Mati				
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand	cator or co Grains; Loca	tion: PL=P Mottle	ore Lining, M=Mati	rix)			Dementer
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand	cator or co Grains; Loca	tion: PL=P	ore Lining, M=Mati		Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	iption (Descri Intration, D=Deple	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand	cator or co Grains; Loca Moist)	tion: PL=P Mottle %	ore Lining, M=Mati es Type	Location	SC	Gravel fragments	3
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand	cator or co Grains; Loca Moist)	tion: PL=P Mottle	ore Lining, M=Mati	rix)		Gravel fragments Gravel fragments	3
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	iption (Descri Intration, D=Deple	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand	cator or co Grains; Loca Moist)	tion: PL=P Mottle %	ore Lining, M=Mati es Type	Location	SC		3
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-12	iption (Descri Intration, D=Deple	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/2	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand	cator or co Grains; Loca Moist) 6/8	tion: PL=P Mottle %	ore Lining, M=Mati es Type	Location	SC COS		3 3
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-12	Hue_10YR Hue_10YR Hue_5Y Fic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/2 Indicators (cf ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LR	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand Color (Color (Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	tion: PL=P Mottle % 5 t):	ore Lining, M=Mati es Type C	Location M	SC COS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High H F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel fragments for Problemati Auck (LRR I, J) t Prairie Redox surface (LRR G) Plains Depressi ced Vertic Parent Material v Shallow Dark S ain in Remarks)	s s c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-12 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y hue_5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/2 Indicators (ch ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR eyed Matrix Gravel	eeded to doc latrix, CS=Cove	ument the indi red/Coated Sand Color (0 5 Hue_10YR 5 Hue_10YR 6 Nue_10YR 7 Hue_10YR 7 S5 - Sandy R 7 S5 - Sandy R 7 S6 - Stripped 7 F1 - Loamy N 7 F2 - Loamy N 7 F2 - Loamy N 7 F3 - Depleted 7 F3 - Depleted 7 F3 - Redox D 7 F16 - High P	Cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6 6 6 7 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	tion: PL=P Mottle % 5 t): al x ace ssions (ML	es Type C C RA 72, 73 of LRF	Location M M C C C C C C C C C C C C C C C C C	SC COS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla ¹ Indicators of I unless disturb	Gravel fragments for Problemati Auck (LRR I, J) t Prairie Redox surface (LRR G) Plains Depression ced Vertic Parent Material v Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	<u>s</u> <u>s</u> <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	L3R				Sample Point: w-154n45w13-aw
		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	Species Name	% Cover	<u>Dominant</u>	<u>Ind.Status</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.	-1				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(****
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 2 X 1 = 2
	Total Cover =	0	FACW spp. 25 x 2 = 50		
			OBL spp. 2 x 1 = 2 FACW spp. 25 x 2 = 50 FAC spp. 35 x 3 = 105 FACU spp. 2 x 4 = 8		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 2 x 4 = 8
1.					UPL spp. 0 $X 5 = 0$
2.					
3.					Total <u>64</u> (A) <u>165</u> (B)
4.					
5.					$Prevalence Index = B/A = \underline{2.578}$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
<u>9.</u> 10.	-				Rapid Test for Hydrophytic Vegetation
10.	 Total Cover =	0			$X Dominance Test is > 50\%$ $X Prevalence Index is \le 3.0 *$
		0			
Harb Stratum	(Plot cize: 5 ft rediue)				Morphological Adaptations (Explain) *
nerb Stratum (1.	(Plot size: 5 ft. radius) Echinochloa crus-galli	35	V	FAC	Problem Hydrophytic Vegetation (Explain) *
2.	Leptochloa fusca	15	т У	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Persicaria pensylvanica	5	N	FACW	present, unless disturbed or problematic.
4.	Rumex fueginus	5	N	FACW	Definitions of Vegetation Strata:
5.	Polygonum aviculare	2	N	FACU	
6	Beckmannia syzigachne	2	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					1
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					1
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.]
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	64			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Tatal Cause				
Pomorke	Total Cover =	0 proverd are	ee and an	randictor	
Remarks:	The wetland sample area is dominated by ba	ingaru gra	iss and sp	rangietop.	
Additional	Pomorko				
Additional I					