## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	SPP								Date: 06/23/14			
Applicant:						/N 41 D A	1.00)	MLRA 56		County: Marshall		
Investigators		EAB/RAJ			Subregio	•		State: MN				
Soil Unit: Landform:	I132A Talf			-	cal Relief:		I Classification:	·		Wetland ID: Sample Point: u-158n48w6-a1		
Slope (%):	0 - 2%	Latitude	e: 48.54		Longitude:		1569	Datum:		Community ID:		
. , ,		nditions on the site typica						✓ Yes	□ No	Section:		
Are Vegetation				disturbed?	(	T .	e normal circun			Township:		
Are Vegetation			blematic?			✓ Yes	□ No		Range: Dir:			
SUMMARY C			, ,									
Hydrophytic \			No					Hydric Soil	ls Present?	No		
Wetland Hydrology Present?					Is This Sampling Poil					t Within A Wetland? <b>No</b>		
Remarks: The site is located in a recently-planted, tilled soybean field adjacent to a ditch that drains the field.												
HYDROLOG	Y											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):												
<u>Primary:</u>		A		_	D44 0 16	•			Secondary:			
	A1 - Surface \A2 - High Wa				B11 - Salt ( B13 - Aqua					B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydro				B10 - Drainage Patterns			
	B1 - Water M	arks			C2 - Dry S	eason Wa	ater Table			C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen	•					spheres on Living	Roots (not till	• 🗆	C8 - Crayfish Burrows		
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese C7 - Thin N		duced Iron			C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position		
	B5 - Iron Dep				Other (Exp		ac <del>c</del>			D5 - FAC-Neutral Test		
		n Visible on Aerial Imagery		_	O ( _ / P	,				D7 - Frost-Heaved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves										
E' LLOL	-4*											
Field Observ					<i>(</i> ' )							
Surface Water		Yes	Depth:		(in.)			Wetland H	lydrology l	Present? N		
Water Table		Yes	Depth:		(in.)							
Saturation Present? Yes   Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No indicators of wetland hydrology were observed.												
nemarks.	No indicator				evious irisp	ections),	if available:					
	No indicator				evious irisp	ections),	if available:					
SOILS		s of wetland hydrology w	ere obs	served.	·			odicators )				
SOILS Profile Descri	iption (Descri		ere obs	served.	cator or co	onfirm th	e absence of ir					
SOILS Profile Descri	iption (Descri	rs of wetland hydrology w	ere obs	served.	cator or co	onfirm th	e absence of ir					
SOILS Profile Descri	iption (Descri	rs of wetland hydrology w	ere obs	served.	cator or co	onfirm th	e absence of ir ore Lining, M=Matr					
SOILS Profile Descri	iption (Descri	be to the depth needed to etion, RM=Reduced Matrix, CS:	ere obs	served.	cator or co	onfirm th	e absence of ir ore Lining, M=Matr		Texture	Remarks		
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed to etion, RM=Reduced Matrix, CS:	ere obs o docun =Covered	nent the indicated Sand (	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture C	Remarks		
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed to etion, RM=Reduced Matrix, CS:  Matrix Color (Moist)  2/1	o docun Covered	nent the indicated Sand (	cator or co Grains; Loca Moist)	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture C C	Remarks		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10	iption (Descrintration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix, CS:  Matrix Color (Moist)  2/1	o docun Covered	nent the indicated Sand Color (I	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of inore Lining, M=Matres	Location	Texture C C	Remarks		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10	iption (Descrintration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix, CS:  Matrix Color (Moist)  2/1	o docun Covered	nent the indicated Sand Color (I	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of inore Lining, M=Matres	Location	Texture C C	Remarks		
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SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	iption (Descrintration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  2/1	% 100 80	nent the indicated Sand Color (I	Cator or co Grains; Loca Moist)	Mottle 20	e absence of inore Lining, M=Matres	Location	Texture C C	Remarks		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	Hue_10YR Hue_10YR Hue_Soil Field	be to the depth needed to etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  2/1	% 100 80 re if ind	color (I Hue_2.5Y	Cator or co Grains; Loca Moist) 3/1	Mottle 20	e absence of inore Lining, M=Matrees  Type  C	Location  M	C C	or Problematic Soils <sup>1</sup>		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR ric Soil Field A1- Histosol	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  2/1  Indicators (check he	% 100 80 re if ind	color (I Hue_2.5Y  licators are r	Cator or co Grains; Loca Moist)  3/1  not presen	Mottle 20	e absence of inore Lining, M=Matrees  Type  C	Location	C C Indicators f A9 - 1cm Mu	or Problematic Soils <sup>1</sup> uck (LRR I, J)		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needed to etion, RM=Reduced Matrix, CS:  Matrix Color (Moist)  2/1  2/1  2/1  ipedon  Check he	% 100 80 re if ind	color (I  Hue_2.5Y  S5 - Sandy R S6 - Stripped	Cator or co Grains; Loca Moist)  3/1  not presen  edox  Matrix	Mottle %	e absence of inore Lining, M=Matrees  Type  C	Location	Indicators f A9 - 1cm Mc A16 - Cost F	or Problematic Soils <sup>1</sup> uck (LRR I, J) Prairie Redox (LRR F, G, H)		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed to etion, RM=Reduced Matrix, CS:  Matrix  Color (Moist)  2/1  2/1  Indicators (check he ipedon etic	% 100 80 re if ind	Color (I  Hue_2.5Y  S5 - Sandy R S6 - Stripped F1 - Loamy M	Cator or co Grains; Loca Moist)  3/1  aot presen edox Matrix fuck Minera	Mottle %	e absence of inore Lining, M=Matrees  Type  C	Location	Indicators f A9 - 1cm Mu A16 - Cost F S7 - Dark Si	or Problematic Soils¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G)		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	iption (Descrintration, D=Deplintration,	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  2/1  2/1  ipedon  stic  n Sulfide	% 100 80  re if ind	color (I  Hue_2.5Y  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Cator or co Grains; Loca Moist)  3/1  not presen edox Matrix fluck Minera	Mottle %	e absence of inore Lining, M=Matrees  Type  C	Location	Indicators f A9 - 1cm Mo A16 - Cost F S7 - Dark So F16 - High F	or Problematic Soils <sup>1</sup> uck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outisde MLRA 72, 73)		
Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth needed to etion, RM=Reduced Matrix, CS:  Matrix  Color (Moist)  2/1  2/1  Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH)	% 100 80 re if ind	Color (I  Hue_2.5Y  Bicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D	Cator or co Grains; Loca Moist)  3/1  anot presen edox Matrix Muck Minera Bleyed Matrix Matrix Matrix ark Surface	mottle which was a second of the confirm the confirmation and confirmation with the confirmation and confirmation with the confirmation and confirmation	e absence of inore Lining, M=Matrees  Type  C	Location	Indicators f A9 - 1cm Mo A16 - Cost F S7 - Dark So F16 - High F F18 - Reduce TF2 - Red P	or Problematic Soils <sup>1</sup> uck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outisde MLRA 72, 73)  red Vertic  arent Material		
Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needed to etion, RM=Reduced Matrix, CS:  Matrix  Color (Moist)  2/1  2/1  2/1  ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	% 100 80 re if ind	Color (I  Hue_2.5Y  Bicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	Cator or co Grains; Loca Moist)  3/1  not presen edox Matrix luck Minera eleyed Matrix Matrix ark Surface	mottle which was a second of the confirm the confirmation and confirmation with the confirmation and confirmation with the confirmation and confirmation	e absence of inore Lining, M=Matrees  Type  C	Location	Indicators f A9 - 1cm Mo A16 - Cost F S7 - Dark So F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problematic Soils <sup>1</sup> uck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outisde MLRA 72, 73)  red Vertic  Parent Material  Shallow Dark Surface		
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	SPP				Sample Point: u-158n48w6-a1
VEGETATIO	(Charies identified in all uppersons are	non notivo	anasias \		
	(Species identified in all uppercase are Plot size: 30 ft. radius)	e non-native	species.)		
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					Total Number of Deminerat Charles Assess All Charles (D)
<u>4.</u> 5.					Total Number of Dominant Species Across All Strata:1 (B)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					Totalik di Bahimani apadida Makima abbi, i Newi, di i Ne.
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $0   x   1 = 0$
	Total Cover = _	0	_		FACW spp. $0 \times 2 = 0$
0 1: /0: 6	Otractions (Distractions 45 to an illus)				OBL spp. 0
Sapling/Shrub 8	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					
3.					Total 6 (A) 29 (B)
4.					
5.					Prevalence Index = B/A = 4.833
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9. 10.					Rapid Test for Hydrophytic Vegetation Dominance Test is > 50%
10.	Total Cover =	0			Prevalence Index is ≤ 3.0 *
	_		_		Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	5	Υ	NI	
2.	Elymus repens	1	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4. 5.					Definitions of Vegetation Strata:
6					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.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13. 14.					4
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	6			- Trocay vinics
	16tai 66voi – _		_		
Woody Vine Sti	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?N
5. 4.					-
4.	Total Cover =	0			
Remarks:	The vegetation at the site consists of sparse		and weeds	S.	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Additional R	emarks:				