## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/04/14		
Applicant:						/N 41 D 4	1.00)	MI DA 50	County:	Marshall			
Investigators								MLRA 56		State:	MN		
Soil Unit: Landform:	Talf				cal Paliafe		I Classification:	·		Comple Deint			
Landform:         Talf         Local Relief: VL         Sample Point:         u-157n47w36-c1           Slope (%):         0 - 2%         Latitude: 48.37222125         Longitude: -96.6646085346         Datum:													
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)  ✓ Yes □ No  Section:													
Are Vegetation □ Soil □, or Hydrology □significantly disturbed?													
Are Vegetation □ Soil □, or Hydrology □aturally problematic?							✓ Yes	□ No		Township: Range:	Dir:		
SUMMARY C			, p							g			
Hydrophytic \			No					Hydric Soil	ls Present?	No			
Wetland Hydrology Present?				No			Is This Sampling Poir				etland? <b>No</b>		
Remarks: The upland sample point is dominated by timothy and a mixture of weedy forbs and grasses, located up a slight slope from a nearby wet meadow. The site is													
near an active petroleum pipeline corridor.													
<b>HYDROLOG</b>	Υ												
Wetland Hy	drology Ind	icators (Check all that a	pply: Mir	nimum of or	e primary	or two s	econdary requi	red):					
Primary:			ppiy, iviii		o primary	0. two 0	ocorradity roqui		Secondary:				
		B11 - Salt	Crust		B6 - Surface S	Soil Cracks							
	<u> </u>				B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry S					B10 - Drainag	Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen						spheres on Living	Roots (not till	• 🗆	C8 - Crayfish			
	B3 - Drift Dep	•			C4 - Prese	nce of Re	duced Iron	(		•	n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp			
	B5 - Iron Depo	osits n Visible on Aerial Imagery			Other (Exp	lain)				D5 - FAC-Neu	utral Test aved Hummocks (LRR F)		
	B9 - Water-St									D7 - F10St-He	aved Hullillocks (LRR F)		
	Do Water O	aoa 20a700											
Field Observ	vations:												
Surface Wate	er Present?	Yes □	Depth:		(in.)								
Water Table		Yes ☑	Depth:		- (in.)			Wetland F	łydrology l	Present?	N		
Saturation Pr		Yes ☑	Depth:		- (in.)						<del>_</del>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
	ordeo Dara is	tream gauge monitoring v	vell aeri:	al photos pr	evious insr	ections)	if available:						
	<u>`</u>					ections),	if available:						
Remarks:	<u>`</u>	stream gauge, monitoring vor secondary hydrologica				ections),	if available:						
Remarks:	<u>`</u>					ections),	if available:						
Remarks:  SOILS Profile Descri	No primary  ption (Descri	or secondary hydrologica	al indicat	tors were obtainent the indi	eserved.	onfirm th	e absence of ir						
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Remarks:  SOILS Profile Descri	No primary  ption (Descri	or secondary hydrologica be to the depth needed t etion, RM=Reduced Matrix, CS	al indicat	tors were obtainent the indi	eserved.	onfirm th	e absence of ir ore Lining, M=Matr						
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	or secondary hydrological be to the depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS	o docum	tors were ob nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)					
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	or secondary hydrological be to the depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS  Matrix  Color (Moist)	o docum =Covered	tors were obtainent the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Matr		Texture		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	be to the depth needed tetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1	o docum =Covered % 100	tors were ob nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	FSL		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-22	No primary  ption (Descriptration, D=Depleter)  Hue_10YR Hue_2.5Y	be to the depth needed tetion, RM=Reduced Matrix  Color (Moist)  2/1 3/1	o docum =Covered % 100 100	tors were ob nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	FSL FSL		Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-22 22-26	No primary  ption (Descriptration, D=Deplete Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth needed tetion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  5/2	o docum =Covered 100 100	nent the indi /Coated Sand Color (	cator or co	Mottl	e absence of in ore Lining, M=Matr es Type	ix)	FSL FSL		Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-22 22-26	No primary  Iption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth needed tetion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  5/2	o docum =Covered  100 100 ere if ind	nent the indi /Coated Sand Color (	cator or co Grains; Loca Moist)	Mottl	e absence of in ore Lining, M=Matr es Type	Location	FSL FSL Indicators f	or Problemati	ic Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-22 22-26  NRCS Hydr	No primary  Iption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_2.5Y  Hue_2.5Y  Hue_2.5Y	be to the depth needed to the detion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  3/1  5/2  Indicators (check he	o docum =Covered  100 100 ere if ind	nent the indi /Coated Sand  Color (  icators are r	cator or cograins; Loca  Moist)  not presented or cograins; Loca	Mottl	e absence of in ore Lining, M=Matr es Type	Location	FSL FSL FSL Indicators f	luck (LRR I, J)	ic Soils <sup>1</sup>		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-22 22-26  NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed tetion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  3/1  5/2  Indicators (check head)	o docum =Covered  100 100 100 ere if ind	coated Sand Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Loca Moist)  Moist)  not presen edox Matrix Mucky Miner	mottl  Mottl  w  tion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	FSL FSL FSL  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox urface (LRR G)	i <mark>c Soils<sup>1</sup></mark> (LRR F, G, H)		
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-157n47w36-c1				
VEGETATIO	` ` '	e non-native	species.)						
Tree Stratum (	(Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u>Opedios Ivalino</u>	<u> 70 OOVCI</u>	Dominant	<u>ma.otatas</u>	Dominance Test Worksheet				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)				
3.					(				
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
5.					( <b>2</b> )				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)				
7.					(742)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp $0 \times 1 = 0$				
	Total Cover =	0			FACW spp. 5				
			FAC spp. $\frac{20}{20}$ x 3 = $\frac{60}{60}$						
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $70$ x $4 = 280$				
1.					UPL spp. $5   X   5 = 25$				
2.					··· <del></del>				
3.					Total 100 (A) 375 (B)				
4.					`` <i>`</i>				
5.					Prevalence Index = $B/A = 3.750$				
6.					<del></del>				
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	0			Prevalence Index is ≤ 3.0 *				
	•			Morphological Adaptations (Explain) *					
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phleum pratense	30	Υ	FACU					
2.	Taraxacum officinale	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Sonchus arvensis	20	Υ	FAC	present, unless disturbed or problematic.				
4.	Cirsium arvense	10	N	FACU	Definitions of Vegetation Strata:				
5.	Melilotus officinalis	5	N	FACU					
6	Bromus inermis	5	N	UPL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Agrostis gigantea	5	N	FACW	height (DBH), regardless of height.				
8.	Dactylis glomerata	5	N	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.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	100							
			<del>_</del>						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =	0							
Remarks:	The sample point is dominated by timothy, co	ommon da	ndelion, ar	nd sow thi	stle.				
			•						
Additional F	Remarks:								
, additional i	toma no.								