## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/25/14
Applicant:					_		County: Pennington			
Investigators	<u> </u>				Subregio	•	State: MN			
Soil Unit:	169A			_			I Classification	PEMB		
Landform:	Dip		10.10		cal Relief:		2007			Sample Point: w-153n44w3-a1
Slope (%):	0 - 2%		Latitude: 48.10		Longitude:			Datum		O contract
		nditions on the site			ar? (If no, exp	1			□ No	Section:
Are Vegetation			•			Are	e normal circun	•	esent?	Township:
Are Vegetation			□aturally pro	olematic?			Yes	□ No		Range: Dir:
SUMMARY C			V					Lludria Cai	ila Duaganto	) Vec
Hydrophytic \	_		Yes		_				ils Present?	
Wetland Hyd		low dominated by p	Yes	ss Canada	blucioint c	arocc ro	od capary grac			
Remarks:	A wet meat	iow dominated by p	oraine corugra	ss, Carlaua	biuejoint g	jiass, re	ed canaly grass	s, and norti	iem reedgra	dSS.
HYDROLOGY	V									
HYDROLOGY										
_	•	icators (Check all	that apply; Mi	nimum of on	e primary	or two s	econdary requi	red):		
Primary:	-			_	D44 0 1	•			Secondary:	
	A1 - Surface				B11 - Salt					B6 - Surface Soil Cracks
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro					B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns
	B1 - Water M				C2 - Dry S					C3 - Oxidized Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	t Deposits					spheres on Living	Roots (not til	ll€ □	C8 - Crayfish Burrows
	B3 - Drift Dep						duced Iron			C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorphic Position
	B5 - Iron Dep	osits on Visible on Aerial Im:	agery	П	Other (Exp	iain)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)
		tained Leaves	agery							Dr - Flost-Heaved Hullimocks (LNN F)
_	20 11416. 0									
Field Observ	vations:									
Surface Water		Yes □	Depth:		(in.)					
Water Table		Yes	Depth:		(in.)			Wetland I	Hydrology <b>I</b>	Present? Y
Saturation Pr		Yes	Depth:		(in.)					<del></del>
		_	200		. ()					
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		stream gauge, monit			evious insp	ections),	if available:			
Describe Reco		stream gauge, monit f wetland hydrolog			evious insp	ections),	if available:			
Remarks:					evious insp	ections),	if available:			
Remarks:	Indicators of	f wetland hydrolog	y are present.		·	,		odicators )		
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Remarks:  SOILS Profile Descri (Type: C=Concen	Indicators of ption (Descr	f wetland hydrology be to the depth neterion, RM=Reduced Ma	y are present.  eded to document atrix, CS=Covered	nent the indi	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture	Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-6 6-11  11-18  NRCS Hydri	Indicators of ption (Description, Depointment of the property of the ption)  Hue_10YR  Hue_10YR  Hue_2.5Y  Fic Soil Field  A1- Histosol	Matrix Color (Moist)  2/1 3/1  6/2  Indicators (characters)	y are present.  eded to document (atrix, CS=Covered (atrix))  // 100  // 95  // 70  // 100  //	Color ( Hue_10YR Hue_10YR Hue_10YR icators are r	Cator or co Grains; Loca Moist)  6/4  4/4  5/6  not presen	Mottle %	e absence of interest Lining, M=Matro	Location  M M	SCL SL SL LS Indicators f	for Problematic Soils <sup>1</sup> Muck (LRR I, J)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-6 6-11  11-18  NRCS Hydri	Indicators of In	metland hydrology libe to the depth negetion, RM=Reduced Matrix  Color (Moist)  2/1 3/1  6/2  Indicators (characters)	y are present.  eded to document (atrix, CS=Covered (atrix))  // 100  // 95  // 70  // 100  //	Color ( Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped	Cator or co Grains; Loca Moist)  6/4  4/4  5/6  not presen  edox  Matrix	Mottle % 1 4 30 t):	e absence of interest Lining, M=Matro	Location  M  M  M	SCL SL SL LS  Indicators f A9 - 1 cm M A16 - Coast	for Problematic Soils¹ fuck (LRR I, J) t Prairie Redox (LRR F, G, H)
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-6 6-11  11-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_15Y  Fic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	Matrix Color (Moist)  2/1 3/1  6/2  Indicators (characters in Sulfide	y are present.  eded to document (atrix, CS=Covered (atrix))  // 100  // 95  // 70  // 100  //	Color ( Hue_10YR Hue_10YR Hue_10YR Hue_10YR Loamy N F2 - Loamy N	Cator or co Grains; Loca Moist)  6/4  4/4  5/6  not presen edox Matrix fucky Miner Gleyed Matri	Mottle %  1 4 30 t):	e absence of interest Lining, M=Matro	Location  M M M	SCL SL SL LS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problematic Soils <sup>1</sup> Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-6 6-11  11-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  Fic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	Matrix Color (Moist)  2/1 3/1  6/2  Indicators (characters (LRR F) ck (LRR FGH) ck (LRR FGH) cd Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR cky Peat or Peat (LR)	y are present.  eded to document atrix, CS=Covered	Color ( Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color ( Hue_10YR Hue_1	Cator or constraints; Local  Moist)  6/4  4/4  5/6  not present edox Matrix Mucky Miner Gleyed Matrix I Matrix ark Surface I Dark Surface epressions ains Depres	Mottle %  A 30  t):	e absence of inore Lining, M=Matrone Es  Type  C C C C A C C C C C C C C C C C C C C	Location	SCL SL SL LS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematic Soils¹  Muck (LRR I, J)  It Prairie Redox (LRR F, G, H)  Sturface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)  Ced Vertic  Parent Material  If Shallow Dark Surface  ain in Remarks)
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-153n44w3-a1				
					•				
<b>VEGETATIO</b>	N (Species identified in all uppercase	are non-native	e species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)				
3.					`` , ,				
4.		-			Total Number of Dominant Species Across All Strata: 3 (B)				
5.					Total Namber of Berninant openies Noross All Strate.				
					Demonstrat Demois and Opening That Are ODL FACIAL as FAC: 400,00/ (A/D)				
6.					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. $0   x   1 = 0$				
	Total Cover	= 0			FACW spp. $96$ $\times 2 = 192$				
					FAC spp. $0 \times 3 = 0$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				Total % Cover of:         Multiply by:           OBL spp.         0         x 1 = 0           FACW spp.         96         x 2 = 192           FAC spp.         0         x 3 = 0           FACU spp.         8         x 4 = 32           UPL spp.         0         x 5 = 0				
1.	Otratam (Fiot 6ize: To it: radiae)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
2.		_			, Lopp				
		_			Total 404 (A) 204 (D)				
3.					Total 104 (A) 224 (B)				
4.									
5.					Prevalence Index = B/A = 2.154				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	Total Cover	= 0			X Prevalence Index is ≤ 3.0 *				
	Total Cover	=							
					Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Spartina pectinata	40	Υ	FACW					
2.	Calamagrostis canadensis	20	Υ	<b>FACW</b>	* Indicators of hydric soil and wetland hydrology must be				
3.	Calamagrostis stricta	20	Υ	FACW	present, unless disturbed or problematic.				
4.	Phalaris arundinacea	10	N	FACW	Definitions of Vegetation Strata:				
5.	Andropogon gerardii	5	N	FACU					
6		3	N	FACW	Tree - Westernlands 2 in /7 Com) on more in discrete at hyport				
	Agrostis gigantea				<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Poa pratensis	3	N	FACU	·				
8.	Anemone canadensis	3	N	FACW					
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.	<u> </u>	# The state of the			Woody Vines - All woody vines, regardless of height.				
15.	Tatal Carra	101			vvoody villes - All woody villes, regardless of floight.				
	Total Cover	= 104							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
<del></del>	Total Cover	= 0							
Domonico					rose and Conada blusiaint gross. The plat above was altered as as not to include				
Remarks:		•	ass, north	ern reeagr	rass, and Canada bluejoint grass. The plot shape was altered so as not to include				
	trees in the adjacent hardwood swamp wet	land.							
Additional Remarks:									