WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	09/25/14		
Applicant:											Pennington		
Investigators		MRK/OTG		Subregion (MLRA or LRR): MLRA 56							MN		
Soil Unit:	I16F NWI Cla									Comple Deint	w-153p/2w20-I1		
Slope (%):	Landform: Dip Local Relief: LC Sample Point: w-153n43w29-I1 Slope (%): 0 - 2% Latitude: 48.03755283 Longitude: -96.2027646667 Datum:												
. ,		nditions on the site							□ No	Section:			
Are Vegetation		□, or Hydrology					e normal circun			Township:			
Are Vegetation			•	ally problematic?			✓ Yes □ No			Range:	Dir:		
SUMMARY C	•	, ,	7 1										
Hydrophytic \	Vegetation P	resent?	Yes					Hydric Soi	ls Present?	Yes			
Wetland Hydrology Present?				Yes			Is This Sampling Point			nt Within A We	etland? Yes		
Remarks:	The wetland	d sample point is w	vithin a hard	wood swamp	dominated	by greer	n ash.						
HYDROLOGY	Y												
		i cators (Check all	I that apply;	Minimum of c	ne primary	or two s	econdary requi	red):					
Primary:	•	Matar			D44 O=14	O		<u>Secondary</u>					
	□ A1 - Surface Water□ A2 - High Water Table				□ B11 - Salt □ □ B13 - Aqua		1				он Сгаскs Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydro					B10 - Drainage			
	B1 - Water Ma				C2 - Dry S	eason Wa	ater Table				Rhizospheres on Living Roots (tille		
	□ B2 - Sediment Deposits□ B3 - Drift Deposits				C3 - Oxidiz		C8 - Crayfish E						
					C4 - Prese			No Visible on Aerial Imagery					
	B5 - Iron Depo				□ C7 - Thin N □ Other (Exp		ace			D2 - Geomorpl D5 - FAC-Neut			
	•	n Visible on Aerial Im	nagery	_	Other (Exp	nan ij					aved Hummocks (LRR F)		
	B9 - Water-St		0 7								,		
Field Observ													
Surface Wate		Yes □	•	oth:	(in.)			Wetland F	lydrology	Present?	Υ		
Water Table		Yes	•	oth:	_ (in.)				.,		<u> </u>		
Saturation Pr	esent?	Vaa \Box	D	. 4									
	0001111.	Yes	Dep	oth:	(in.)								
		stream gauge, moni				ections),	if available:						
	orded Data (s		itoring well, a	erial photos, p	revious insp	pections),	if available:						
Describe Reco	orded Data (s	tream gauge, mon	itoring well, a	erial photos, p	revious insp	ections),	if available:						
Describe Reco	orded Data (s The wetland	stream gauge, moni	itoring well, a	rsely vegetate	previous insp ed.	•							
Describe Reco Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	stream gauge, moni	itoring well, and is spa	rsely vegetate	ed.	onfirm th	e absence of ir						
Describe Reco Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	stream gauge, moni	itoring well, and is spa	rsely vegetate	ed.	onfirm th	e absence of ir						
Describe Reco Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	stream gauge, moning is located in a diple i	itoring well, and is spa	rsely vegetate	ed.	onfirm th	e absence of ir ore Lining, M=Matr						
Describe Reco Remarks: SOILS Profile Descri (Type: C=Concer	orded Data (s The wetland ption (Descri	stream gauge, monities located in a diplete to the depth neterion, RM=Reduced Matrix	itoring well, and is spa	rsely vegetate	previous inspect. dicator or conditions; Local	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks		
Describe Reconstruction Remarks: SOILS Profile Descripe: C=Concert	orded Data (s The wetland ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, as particularly and is sparticularly	rsely vegetate cument the incered/Coated Sand	ed.	onfirm th	e absence of ir ore Lining, M=Matr		Texture		Remarks		
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Describe Reco	ption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/1 Indicators (chain a dipedon	itoring well, as particularly and is spandis s	cument the incored/Coated Sand Color Hue_10Y Hue_2.5 Indicators are S5 - Sandy S6 - Strippe	corevious inspect. dicator or condicator or	Mottl % 5 20 t):	e absence of interest control of the	Location M M	CL SICL SICL SICL Indicators f A9 - 1 cm M A16 - Coast		c Soils ¹		
Describe Reco	ption (Descrintration, D=Depleter) Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/1 Indicators (chain in Sulfide)	itoring well, as particularly and is spandis s	cument the incored/Coated Sand Color Hue_10Y Hue_2.5 Indicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy	corevious inspect. dicator or condicator or condicator or condicator or condicator. (Moist) R 5/8 7 5/3 not present condicator. Redox End Matrix Mucky Miner Gleyed Matri	mottl % 5 20 t):	e absence of interest control of the	Location M M	CL SICL SICL SICL SICL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	luck (LRR I, J) : Prairie Redox (urface (LRR G) Plains Depressic	c Soils ¹		
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Describe Record Remarks: SOILS Profile Descrit (Type: C=Concerd) Depth (In.) 0-8 8-11 11-20 NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deple	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR leyed Matrix	itoring well, as part and is spandis s	rsely vegetate cument the incored/Coated Sand Color Hue_10Y Hue_2.5 Indicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete F8 - Redox F16 - High	corevious inspect. dicator or condicator or condicator or condicator or condicator. (Moist) R 5/8 / 5/3 not present Redox and Matrix Mucky Miner Gleyed Matrix Dark Surface and Dark Surface	Mottl % 5 20 t):	e absence of in ore Lining, M=Matrees Type C C C Hydric So	Location M M H H H H II Present?	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S7 - Dark S7 - Red F7 TF12 - Very Other (Explain Indicators of Funless disturbed) Y	fluck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetated or problematic.	ESoils ¹ 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-153n43w29-I1
VEGETATION		re non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius) Species Name	0/ Cayor	Dominant	Ind Ctatus	Dominance Test Worksheet
1.	Fraxinus pennsylvanica	<u>% Cover</u> 7 5	Dominant Y	Ind.Status FAC	Dominance rest worksneet
2.	Populus tremuloides		<u>_</u> N	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
3.	1 oparac tremarorace	10	- 11	TAC	(1)
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					(2)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(, 42)
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					
	Total Cover =	90			OBL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$
			$I = FAC snn = 170 \qquad X : 3 = 510$		
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.	Fraxinus pennsylvanica	75	Υ	FAC	UPL spp. $0 x 5 = 0$
2.					
3.					Total 170 (A) 510 (B)
4.					``´
5.					Prevalence Index = $B/A = 3.000$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	75			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Fraxinus pennsylvanica	5	Υ	FAC	
2.					* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					1
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.]
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 =	5]
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.		-			
	Total Cover =	= 0			
Remarks:	The wetland sample point canopy is domina	ated by gree	en ash and	ground c	over is dominated by green ash seedlings.
Additional R	emarks:				
, additional N					