WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14	
Applicant:	• •			Subregion (MLRA or LRR): MLRA 56						County:	Marshall	
Investigators		NTT/BEH			Subregio	•	•	MLRA 56		State:	MN	
Soil Unit:	I690A				ool Deli-f		I Classification	:		0	W 455645000 !4	
Landform:	Depression 3 - 7%		Latitude: 48.2		cal Relief:		2047	Dation		Sample Point	w-155n45w28-j1	
Slope (%):		onditions on the site			Longitude:			Datum: ☑ Yes	<u>.</u> □ No	Section:		
Are Vegetation		□, or Hydrology			αι: (ππο, εχ		e normal circur			Township:		
Are Vegetation		□, or Hydrology	□aturally pr	_			e normal circui ✓ Yes		esent:	Range:	Dir:	
SUMMARY C			Hatarany pr	obiematie:			E 163	- 110		Range.	Dil.	
Hydrophytic \			Yes					Hydric Soi	ils Present?	Yes		
Wetland Hyd	•		Yes		_					t Within A W	etland? Yes	
Remarks:		d is a hardwood sw		ted by green	ash and g	uaking a	spen in the car					
				area by green	3.0.1. 3.1.3. q				7 G. 1 G G. 1 G. G			
HYDROLOG	Υ											
		icators (Check all	that apply: M	linimum of or	e nrimary	or two s	econdary requi	ired)•				
Primary:		icators (check air	triat appry, iv		ic primary	01 100 3	coordary requi	100).	Secondary:			
	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surf	ace
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M B2 - Sedimer				C2 - Dry So		ater Table spheres on Living	Roots (not till		C8 - Crayfish I	Rhizospheres on Living F	Roots (tilled)
	B3 - Drift Dep	•					educed Iron	TOOLS (HOL III	"		n Visible on Aerial Image	rv
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp		- ,
	B5 - Iron Dep				Other (Exp	lain)			☑	D5 - FAC-Neu		
		on Visible on Aerial Im	agery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - water-S	tained Leaves										
Field Observ	vations:											
Surface Water		Yes	Dent	h:	(in.)							
Water Table		Yes \square		h:	(in.)			Wetland H	Hydrology I	Present?	Υ	
Saturation P		Yes \square	Dept		- (in.)						-	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Deceribe Dec	and ad Data /	-4	4 min a a II . a a				if a vailable					
	`					,					Lavetural to at	
Describe Rec	`	stream gauge, moni hydrology indicato				,		n geomorphi	c position a	nd the FAC-N	leutral test.	
Remarks:	`					,		ı geomorphi	c position a	nd the FAC-N	leutral test.	
Remarks:	No primary	hydrology indicato	rs were obse	rved. Wetland	d hydrolog	y is assi	umed based on		c position a	nd the FAC-N	leutral test.	
Remarks: SOILS Profile Descri	No primary		rs were obse	rved. Wetland	d hydrolog	y is assu	umed based on ne absence of in	ndicators.)	c position a	nd the FAC-N	leutral test.	
Remarks: SOILS Profile Descri	No primary	hydrology indicato	rs were obse	rved. Wetland	d hydrolog	y is assu	umed based on ne absence of in	ndicators.)	c position a	nd the FAC-N	leutral test.	
Remarks: SOILS Profile Descri	No primary	hydrology indicato	rs were obse	rved. Wetland	d hydrolog	y is assu	umed based on ne absence of in Pore Lining, M=Mat	ndicators.)	c position a	nd the FAC-N	leutral test.	
Remarks: SOILS Profile Descri	No primary	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma	rs were obse	rved. Wetland Iment the indicad/Coated Sand	d hydrolog cator or co Grains; Loca	y is assu onfirm th	umed based on ne absence of in Pore Lining, M=Mat	ndicators.)		nd the FAC-N	Neutral test. Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	rs were obse	iment the indicated Sand	d hydrolog cator or co Grains; Loca	y is assu onfirm th tion: PL=P	umed based on ne absence of in Pore Lining, M=Mat	ndicators.)		nd the FAC-N		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	rs were obse	ment the indicad/Coated Sand Color (cator or co	y is assu onfirm th tion: PL=P	umed based on ne absence of in Pore Lining, M=Mat	ndicators.)	Texture	nd the FAC-N		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary iption (Descr	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to docu	ment the indicad/Coated Sand Color (cator or co	onfirm th	ne absence of in Pore Lining, M=Mati	ndicators.) rix) Location	Texture	nd the FAC-N		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No primary iption (Descr	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eded to docuatrix, CS=Covered % 100	ment the indicad/Coated Sand Color (cator or co Grains; Loca Moist)	onfirm the tion: PL=P	ne absence of in Pore Lining, M=Mati	ndicators.) rix) Location	Texture	nd the FAC-N		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No primary iption (Description, D=Depl	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eded to docuatrix, CS=Covered % 100	ment the indicad/Coated Sand Color () Hue_10YR	cator or co Grains; Loca Moist)	onfirm the tion: PL=P	ne absence of in Pore Lining, M=Mat	ndicators.) rix) Location	Texture CL SCL	or Problematic	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No primary iption (Descriptration, D=Depl	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eded to docuatrix, CS=Covered % 100	ment the indicad/Coated Sand Color () Hue_10YR	cator or co Grains; Loca Moist) 6/8	onfirm the tion: PL=P	ne absence of in Pore Lining, M=Mat	Location M	Texture CL SCL Indicators f	or Problemation	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docuatrix, CS=Covered % 100	Color (Hue_10YR Adicators are respectively seed - Stripped	cator or co Grains; Loca Moist) 6/8 not presen	y is assurbing the tion: PL=P Mottl % 5 t):	ne absence of in Pore Lining, M=Mat	Location M	Texture CL SCL Indicators f A9 - 1 cm M A16 - Coast	or Problemation	Remarks c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docuatrix, CS=Covered % 100	Color (Hue_10YR Adicators are response of the second of	cator or co Grains; Loca Moist) 6/8 not presen ledox Matrix Mucky Miner	y is assured by is assured by is assured by is assured by it is a second by it is a	ne absence of in Pore Lining, M=Mat	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	or Problemation	Remarks c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docuatrix, CS=Covered 100 95	Color (CO) Hue_10YR I S5 - Sandy R I S6 - Stripped I F1 - Loamy N I F2 - Loamy C	cator or co Grains; Locar Moist) 6/8 not presen dedox Matrix Mucky Minera Gleyed Matri	y is assured by is assured by is assured by is assured by it is a second by it is a	ne absence of in Pore Lining, M=Mat	Location M	Texture CL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F	or Problemation Juck (LRR I, J) Prairie Redox Jurface (LRR G) Plains Depression	Remarks c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docuatrix, CS=Covered % 100	Color (Hue_10YR Indicators are in the sed of the sed	cator or co Grains; Loca Moist) 6/8 not presented with the content of the conte	y is assured by is assured by is assured by is assured by it is a second by it is a	ne absence of in Pore Lining, M=Mat	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F F18 - Reduce	or Problemation Juck (LRR I, J) Prairie Redox Jurface (LRR G) Plains Depression Jurgen Company Co	Remarks c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docuatrix, CS=Covered 95 eck here if ir	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted	cator or concentrations; Locarins; L	y is assured by is assured by is assured by is assured by it is a sured by	ne absence of in Pore Lining, M=Mat	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	or Problemation Juck (LRR I, J) Prairie Redox Jurface (LRR G) Plains Depression	Remarks c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch sipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface park Surface	eded to docuatrix, CS=Covered 95 eck here if ir	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Loca Moist) 6/8 anot presented with the content of the cont	y is assured by is assured by is assured by is assured by it is a source by it is a	ne absence of in Pore Lining, M=Mati	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Juck (LRR I, J) Prairie Redox Jurface (LRR G) Plains Depression Sed Vertic Parent Material	Remarks c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch sipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LR	eded to docuatrix, CS=Covered (100) 95 eck here if in	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Loca Moist) 6/8 anot presented with the content of the cont	y is assured by is assured by is assured by is assured by it is a source by it is a	ne absence of in Pore Lining, M=Mati	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	for Problemation Juck (LRR I, J) Prairie Redox Jurface (LRR G) Plains Depression Jurface Vertic Parent Material Shallow Dark Sain in Remarks)	Remarks c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	ust be present,
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-155n45w28-j1					
VEGETATIO	(Species identified in all uppercase a	re non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius)									
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet					
1.	Fraxinus pennsylvanica	60	Y	FAC						
2.	Populus tremuloides	40	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata:6 (B)					
5.										
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 =	100			FACW spp. $\frac{60}{130}$ $\frac{120}{130}$ $\frac{130}{130}$ $\frac{130}{130}$ $\frac{130}{130}$ $\frac{130}{130}$ $\frac{130}{130}$					
			FAC spp. $\frac{130}{130}$ $\times 3 = \frac{390}{130}$							
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{5}{5}$ $\times 4 = \frac{20}{20}$					
1.	Fraxinus pennsylvanica	20	Υ	FAC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
2.	Populus tremuloides	10	· Y	FAC	от 2 орр					
3.	Comus alba	10		FACW	Total 195 (A) 530 (B)					
4.	Corrus aina	10	<u> </u>	1 7011	10tai 100 (A)(D)					
5.					Prevalence Index = B/A = 2.718					
6.					Frevalence much = D/A = 2.710					
7.					Hydrophytic Vogetation Indicators:					
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.	Total Caver	40			X Dominance Test is > 50%					
	Total Cover =	40			X Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Rubus pubescens	30	Υ	FACW						
2.	Carex sartwellii	10	N	FACW	* Indicators of hydric soil and wetland hydrology must be					
3.	Lysimachia ciliata	10	N	FACW	present, unless disturbed or problematic.					
4.	Toxicodendron rydbergii	5	N	FACU	Definitions of Vegetation Strata:					
5.										
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.					
10.	Total Cover =	= 55								
	Total Cover =	- 33								
Moody Visa S	tratum (Plot size: 20 ft radius)									
1	tratum (Plot size: 30 ft. radius)									
2.										
3.					Hydrophytic Vogetation Present?					
					Hydrophytic Vegetation Present?Y					
5.										
4.	Tatal Oarran									
Danie	Total Cover =				and through and annually the support library					
Remarks:	The wetland is dominated by green ash and	l quaking as	spen in the	canopy a	and dwarf red raspberry in the ground layer.					
Additional I	Remarks:									