WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R Enhance							Date:	09/12/14		
Applicant:					Cubrasia	- /N/I D /	\	County:	Pennington			
Investigators Soil Unit:	: I66A	WRN/BEH/RAJ			_Subregio	`	A or LRR): I Classification:	MLRA 56		State:	MN	
Landform:	Talf			La	cal Relief:		1 Olassinoation	•		Sample Point:	u-154n45w25-k1	
Slope (%):												
Are climatic/h	hydrologic co	nditions on the site typi	cal for this	s time of ye	ar? (If no, ex	plain in rem	arks)	Yes	□ No	Section:		
Are Vegetation		□, or Hydrology □sig		Are	e normal circun	-	esent?	Township:				
Are Vegetation			urally prob	olematic?			Yes	□ No		Range:	Dir:	
SUMMARY C			No					Hydric Soi	le Drocont?	No		
Hydrophytic Vegetation Present? Wetland Hydrology Present?				No			Hydric Soils Present? No Is This Sampling Point Within A Wetland? No					
Remarks:		is located in an uncultiv		ner of a soyl	bean field	and dom	ninated by smoo		mpinig r om		odana. III	
HYDROLOG	V											
		icators (Chack all that	apply: Mir	nimum of or	o primary	or two c	ocondory roqui	rod):				
Primary:		icators (Check all that	appiy, iviii	ilitiuiti oi oi	ie primary	OI TWO S	econdary requi	ieu).	Secondary:			
□ A1 - Surface Water □ B11 - Salt Crust										B6 - Surface S	oil Cracks	
	o				B13 - Aqua						Vegetated Concave Surface	
	□ A3 - Saturation□ B1 - Water Marks				C1 - Hydro C2 - Dry S		B10 - Drainage C3 - Oxidized	e Patterns Rhizospheres on Living Roots (tille				
	B2 - Sedimen	•			C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish I	Burrows	
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese C7 - Thin I		educed Iron			C9 - Saturation D2 - Geomorp	n Visible on Aerial Imagery	
	B5 - Iron Dep				Other (Exp		ace			D5 - FAC-Neu		
	B7 - Inundation	n Visible on Aerial Imagery	•		` '	,				D7 - Frost-Hea	aved Hummocks (LRR F)	
□ B9 - Water-Stained Leaves												
Field Observ	vations:											
Surface Water		Yes	Depth:		(in.)			VA/a (lass al I	I I I	D	N.	
Water Table	Present?	Yes	Depth:		(in.)			wetiand F	lydrology l	Present?	<u>N</u>	
Saturation Present? Yes Depth: (in.)												
		165	Dopuii		_ (111.)							
Describe Reco	orded Data (s	tream gauge, monitoring			<u> </u>	pections),	, if available:					
Describe Reco	<u>`</u>		y well, aeria	al photos, pr	evious insp	pections),	, if available:					
Remarks:	<u>`</u>	tream gauge, monitoring	y well, aeria	al photos, pr	evious insp	pections),	, if available:					
Remarks:	No primary	stream gauge, monitoring or secondary hydrologic	g well, aeria cal indicat	al photos, pr tors were ol	revious insposerved.	•		ndicators)				
Remarks: SOILS Profile Descri	No primary	tream gauge, monitoring	y well, aeria	al photos, protors were of the contract the indicate the contract the indicate the contract the	revious insposerved.	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No primary	stream gauge, monitoring or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Control of the street of the secondary hydrological between the secondary hydrological betw	y well, aeria	al photos, protors were of the contract the indicate the contract the indicate the contract the	revious insposerved.	onfirm th	e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological be to the depth needed etion, RM=Reduced Matrix, Control Matrix	y well, aeria cal indicat I to docum CS=Covered	al photos, protors were of the independent the independent content the independent content in the independent content in the independent in the in	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary iption (Descri	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1	y well, aeria cal indicat I to docum CS=Covered % 100	al photos, protors were of the independent the independent content the independent content in the independent content in the independent in the in	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	CL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20	No primary iption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2	well, aeria cal indicat I to docum CS=Covered 100 100	al photos, protors were of the independent the independent content the independent content in the independent content in the independent in the in	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	CL SL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary iption (Descri	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1	y well, aeria cal indicat I to docum CS=Covered % 100	al photos, protors were of the independent the independent content the independent content in the independent content in the independent in the in	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	CL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22	No primary iption (Descriptration, D=Deplete Hue_10YR Hue_10YR Hue_2.5Y	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2	well, aeria cal indicat I to docum CS=Covered 100 100 100	al photos, protors were obtained the independent the independent color (revious insposerved. icator or configurations; Locations; Locatio	onfirm th	e absence of in ore Lining, M=Matr	rix)	CL SL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22 NRCS Hydr	No primary iption (Descrintration, D=Deplete Hue_10YR Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2 Indicators (check has ipedon	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	al photos, protors were obtained the independent the independe	revious insposerved. icator or configuration of configur	Mottl %	e absence of in fore Lining, M=Matr es Type	Location	CL SL SL Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2 Indicators (check has ipedon etic)	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	al photos, protors were obtained the independent the independe	revious insposerved. Cator or configurations; Locations; Location	onfirm the tion: PL=P Mottl % t):	e absence of in fore Lining, M=Matr es Type	Location	CL SL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2 Indicators (check has ipedon etic)	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	al photos, protors were obtained the independent the independe	revious insposerved. icator or configuration of configur	onfirm the tion: PL=P Mottl % t):	e absence of in fore Lining, M=Matr es Type	Location	CL SL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2 Indicators (check has ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH)	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F	revious insposerved. icator or configurations; Locations; Locatio	onfirm the tion: PL=P Mottl % t):	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2 Indicators (check has been been been been been been been bee	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	icators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox E F7 - Deplete	revious insposerved. icator or configuration of configur	onfirm the tion: PL=P Mottl % t):	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2 Indicators (check has been been been been been been been bee	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	color (Color (See See See See See See See See See Se	revious insposerved. Cator or configurations; Local Moist) Moist) Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Dark Surface Depressions	monfirm the tion: PL=P Mottl % t): al x ace	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 3/2 5/2 Indicators (check has been been been been been been been bee	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	color (Color (See See See See See See See See See Se	revious insposerved. Cator or configurations; Local Moist) Moist) Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Dark Surface Depressions	monfirm the tion: PL=P Mottl % t): al x ace	e absence of infore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Red Vertic Parent Material Shallow Dark S Rain in Remarks)	CE Soils ¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 20-22 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2 Indicators (check has been been been been been been been bee	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	revious insposerved. Cator or configurations; Local Moist) Moist) Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Dark Surface Depressions	monfirm the tion: PL=P Mottl % t): al x ace	e absence of infore Lining, M=Matrees Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Red Vertic Parent Material Shallow Dark S Rain in Remarks)	E 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.) 0-16 16-20 20-22 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mur S4 - Sandy G	be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/2 5/2 Indicators (check has been been been been been been been bee	well, aeria cal indicat I to docum CS=Covered 100 100 100 nere if indi	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	revious insposerved. Cator or configurations; Local Moist) Moist) Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Dark Surface Depressions Lains Depressions Lains Depressions	monfirm the tion: PL=P Mottl % t): al x ace	e absence of infore Lining, M=Matrees Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed)	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	CE Soils ¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n45w25-k1				
VEGETATION CARREST AND ADDRESS OF THE PROPERTY	` ` `	are non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u>Species Name</u>	<u> 70 00001</u>	Dominant	<u>ma.otatus</u>	Dominarios rest Workshoot				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.		1			(
4.	1				Total Number of Dominant Species Across All Strata: 1 (B)				
5.					(
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.	<u>, </u>								
8.	'				Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. $0 x 1 = 0$				
Total Cover = 0					FACW spp. 10				
			FAC spp. $\frac{20}{}$ x 3 = $\frac{60}{}$						
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{25}{}$ $x 4 = \frac{100}{}$				
1.					UPL spp. $\frac{60}{}$ $x = \frac{300}{}$				
2.									
3.					Total <u>115</u> (A) <u>480</u> (B)				
4.									
5.					Prevalence Index = B/A = 4.174				
6.									
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) *				
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	60	Y	UPL					
2.	Solidago altissima	20	N	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3.	Apocynum cannabinum	15	N	FAC	·				
4.	Spartina pectinata	10	N	FACW	Definitions of Vegetation Strata:				
5.	Cirsium arvense	5	N	FACU	Trac				
6	Helianthus giganteus	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7. 8.		1			Holghi (BBH), rogaraless of Holghi.				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.					Sapinig/Siliub - Wessy Plante less than 8 lin. 2211, Tegaraless of Height.				
11.									
12.	1				Herb - All herbaceous (non-woody) plants, regardless of size.				
13.	<u> </u>								
14.									
15.	<u> </u>				Woody Vines - All woody vines, regardless of height.				
	Total Cover :	= 115							
	Total Govern		_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.	Takan (Fiot 6)26. Cont. Takano)								
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover :	= 0							
Remarks:	The upland sample point is dominated by s	mooth brom	ie.						
	•								
Additional R	Remarks:								