WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date: 08/20/14
Applicant:	Enbridge			Subragion (MLPA or LPP): MLPA 56							County: <u>Marshall</u> State: <u>MN</u>
Investigators Soil Unit:	: BEH/RAJ I6A			Subregion (MLRA or LRR): <u>MLRA 56</u> NWI Classification:							
Landform:	Depression		Local Relief: LC							Sample Point: w-157n47w16-i2	
Slope (%):	0 - 2%		Latitude: 4			Longitude:			Datum:		
		onditions on the sit				I r? (If no, exp			☑ Yes	□ No	Section:
Are Vegetati		I □, or Hydrology					Are	e normal circum		esent?	Township:
Are Vegetati		l □, or Hydrology	/ Daturally	y prot	plematic?			☑ Yes	□ No		Range: Dir:
Hydrophytic			V	/es					Hydric Soi	ls Present?	2 Ves
Wetland Hyd	-			res res							nt Within A Wetland? Yes
					cavated drai	nage ditch	domina				ss, and scattered willow.
						-					
HYDROLOG	Y										
-	•••	l icators (Check al	II that apply	y; Mir	nimum of one	e primary	or two se	econdary requir	ed):		
Primary	<u>′'</u> A1 - Surface	\\/ator				B11 - Salt (Pruet			<u>Secondary:</u> □	<u>:</u> B6 - Surface Soil Cracks
	A1 - Sunace A2 - High Wa					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface
	A3 - Saturatio					C1 - Hydrog					B10 - Drainage Patterns
	B1 - Water M B2 - Sedimer					C2 - Dry Se		C3 - Oxidized Rhizospheres on Living Roots (tilled C8 - Crayfish Burrows			
	B3 - Drift Dep	•				C4 - Presei		spheres on Living duced Iron			C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M		D2 - Geomorphic Position			
	B5 - Iron Dep	oosits on Visible on Aerial In	magery			Other (Expl	ain)	D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)			
		tained Leaves	magery								Dr - Host-heaved Hummocks (LINCT)
Field Obser											
Surface Wat				Depth:		(in.)			Wetland H	lydrology	Present? Y
Water Table		Yes □ Yes ☑		Depth:		(in.) (in.)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The ditch is a feature that would collect water, and the vegetation passes the FAC-Neutral test.											
	,		<u> </u>		· ·		,		tost		
Remarks:	,		<u> </u>		· ·		,		test.		
Remarks: SOILS	The ditch is	s a feature that wo	ould collect	: wate	r, and the ve	egetation p	basses th	ne FAC-Neutral			
Remarks: SOILS Profile Descr	The ditch is	a feature that wo	eeded to d	wate	er, and the ve	egetation p	oasses th	ne FAC-Neutral	dicators.)		
Remarks: SOILS Profile Descr	The ditch is	s a feature that wo	eeded to d	wate	er, and the ve	egetation p	oasses th	ne FAC-Neutral	dicators.)		
Remarks: SOILS Profile Descr	The ditch is	a feature that wo	eeded to d	wate	er, and the ve	egetation p	oasses th onfirm the ion: PL=Pe	ne FAC-Neutral e absence of in ore Lining, M=Matri	dicators.)		
Remarks: SOILS Profile Descr	The ditch is	ibe to the depth ne	eeded to d	wate	er, and the ve	egetation p cator or co Grains; Locat	oasses th	ne FAC-Neutral e absence of in ore Lining, M=Matri	dicators.)	Texture	Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	The ditch is	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist)	eeded to d	t wate	nent the indic	egetation p cator or co Grains; Locat Moist)	oasses the onfirm the ion: PL=Pe Mottle	ne FAC-Neutral e absence of in ore Lining, M=Matri	dicators.) ^{x)}	Texture SIC	Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	The ditch is	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist)	eeded to d	t wate	r, and the ve nent the indic /Coated Sand C Color (N	egetation p cator or co Grains; Locat Moist) 5/2	nfirm the ion: PL=Pe Mottle	ne FAC-Neutral e absence of in- ore Lining, M=Matri es Type	dicators.) ^{x)} Location		Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	The ditch is	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to d	t wate	r, and the ve nent the indic /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR	Action processing station processing station processing static statements of the statement	nfirm the ion: PL=Po Mottle % 18	e absence of in ore Lining, M=Matri es Type D C C	dicators.) ^{x)} Location M M M	SIC SIC SIL	Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12	The ditch is iption (Descr ntration, D=Dep Hue_10YR	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	eeded to d	wate	r, and the ve nent the indic /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Gley2	Addist) Solution provide the second state of	nfirm the ion: PL=Pe Mottle % 18 2 5 1	e absence of in ore Lining, M=Matri es Type D C C D	dicators.) ×) Location M M M M	SIC SIC	Remarks Greenish-blue vertical atreak
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2	puld collect	wate	r, and the ve nent the indic /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR	Addist) Solution provide the second state of	nfirm the ion: PL=Po Mottle % 18 2	e absence of in ore Lining, M=Matri es Type D C C	dicators.) ^{x)} Location M M M	SIC SIC SIL SIL SIL	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 6/2	puld collect	wate	color (N Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR	Addition provident and the second sec	nfirm the ion: PL=Po Mottle % 18 2 5 1 10	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) ×) Location M M M M	SIC SIC SIL	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 6/2	puld collect	wate	r, and the ve nent the indic /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Gley2	Addition provident and the second sec	nfirm the ion: PL=Po Mottle % 18 2 5 1 10	e absence of in ore Lining, M=Matri es Type D C C D	dicators.) ×) Location M M M M	SIC SIC SIL SIL S FS	Greenish-blue vertical atreak
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 6/2	puld collect	wate	r, and the ver nent the indic /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present	nfirm the ion: PL=Po Mottle % 18 2 5 1 10	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M	SIC SIC SIL SIL S FS	Greenish-blue vertical atreak for Problematic Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 I Indicators (cl	puld collect	wate	r, and the ver nent the indic /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix	nfirm the ion: PL=Pe Mottle % 18 2 5 1 10	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M M	SIC SIC SIL SIL S FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast	Greenish-blue vertical atreak for Problematic Soils ¹ <i>I</i> uck (LRR I, J) t Prairie Redox (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 1 Indicators (cl	puld collect	wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera	nfirm the ion: PL=Po Mottle % 18 2 5 1 10	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M M I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S	Greenish-blue vertical atreak for Problematic Soils ¹ Auck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 I Indicators (cl pipedon stic en Sulfide	puld collect	wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix	nfirm the ion: PL=Po Mottle % 18 2 5 1 10	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M M I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Al- Histosol A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 1 Indicators (cl	puld collect	wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix	nfirm the ion: PL=Po Mottle % 18 2 5 1 10	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M M I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 I Indicators (cl bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surfac	build collect	wate docum overed, % 80 94 90 100 if indi □ □ □ □ □ □ □	r, and the ver nent the indic /Coated Sand C /Coated Sand C /Coated Sand C /Coated Sand C /Coated Sand C /Coated Sand C //Coated Sand	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surfa	nfirm the ion: PL=Pe Mottle % 18 2 5 1 10 :):	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M M I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 1 Indicators (cl bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surfac Dark Surface	build collect	: wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions	nfirm the ion: PL=Po Mottle % 18 2 5 1 10 :):	e absence of intore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M I I I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	a feature that wo ibe to the depth nelletion, RM=Reduced M letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2	ce	: wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions	nfirm the ion: PL=Po Mottle % 18 2 5 1 10 :):	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M I I I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	a feature that wo ibe to the depth nelletion, RM=Reduced M letion, RM=Reduced M Matrix Color (Moist) 2/1 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 0 6/2 6/2 6/2 0 6/2 0 <td>ce</td> <td>: wate</td> <td>r, and the ver nent the indic /Coated Sand C /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da</td> <td>egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions</td> <td>nfirm the ion: PL=Po Mottle % 18 2 5 1 10 :):</td> <td>e absence of intore Lining, M=Matri es Type D C C D C</td> <td>dicators.) x) Location M M M M I I I I I I I I I I I I I</td> <td>SIC SIC SIL SIL SIL S FS FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla</td> <td>Greenish-blue vertical atreak for Problematic Soils¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be presen</td>	ce	: wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions	nfirm the ion: PL=Po Mottle % 18 2 5 1 10 :):	e absence of intore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M I I I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be presen
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	a feature that wo ibe to the depth nelletion, RM=Reduced M letion, RM=Reduced M Matrix Color (Moist) 2/1 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 0 6/2 6/2 6/2 0 6/2 0 <td>ce</td> <td>: wate</td> <td>r, and the ver nent the indic /Coated Sand C /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da</td> <td>egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions</td> <td>nfirm the ion: PL=Po Mottle % 18 2 5 1 10 :):</td> <td>e absence of intore Lining, M=Matri es Type D C C D C</td> <td>dicators.) x) Location M M M M I I I I I I I I I I I I I</td> <td>SIC SIC SIL SIL SIL S FS FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla</td> <td>Greenish-blue vertical atreak for Problematic Soils¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks)</td>	ce	: wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C Color (N Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions	nfirm the ion: PL=Po Mottle % 18 2 5 1 10 :):	e absence of intore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M I I I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified 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	ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 6/2 1 1 0	ce	: wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C /Coated Sand C /Coated Sand C /Coated Sand C //Coated Sand	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions	nfirm the ion: PL=Po Mottle % 18 2 5 1 10 :):	e absence of in ore Lining, M=Matri es Type D C C D C	dicators.) x) Location M M M M I I I I I I I I I I I I I	SIC SIC SIL SIL SIL S FS FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be presen
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-12 12-16 16-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	The ditch is iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A3 - Black Hi A4 - Hydroge A5 - Stratified A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	a feature that wo ibe to the depth nelletion, RM=Reduced M letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 0 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 6/2 0 0 0 0 6/2 6/2 1 1 0 <	ce	wate	r, and the ver nent the indic /Coated Sand C /Coated Sand C /Coated Sand C /Color (N Hue_10YR Hue_10YR Hue_10YR Gley2 Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da F16 - High Pla	egetation p cator or co Grains; Locat Moist) 5/2 4/4 3/3 2.5/10B 3/6 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depres	nfirm the ion: PL=Pe Mottle % 18 2 5 1 10 :):	e absence of in ore Lining, M=Matri es Type D C C D C C RA 72, 73 of LRR	dicators.)	SIC SIC SIL SIL SIL S FS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Greenish-blue vertical atreak for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be presen

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-157n47w16-i2
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				Deminence Test Merkelest
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.		0			OBL spp. $\frac{60}{100}$ x 1 = $\frac{60}{100}$
	Total Cover =	0	_		FACW spp. 40 x 2 = 80
					FAC spp.0x3 =0FACU spp.0x4 =0
	Stratum (Plot size: 15 ft. radius)	40	V		
1.	Salix interior	10	Y Y	FACW	UPL spp. 0 $x 5 = 0$
2.	Salix amygdaloides	5	Y	FACW	
3.					Total <u>100</u> (A) <u>140</u> (B)
4.					
5.					Prevalence Index = $B/A = $ 1.400
6.					
7.					Undreader the Manatation Indiantema
8.					Hydrophytic Vegetation Indicators:
9.					X Rapid Test for Hydrophytic Vegetation
10.	Tatal Osuan	4.5			X Dominance Test is > 50%
	Total Cover =	15	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha X glauca	50	Y	OBL	
2.	Phalaris arundinacea	25	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Carex haydenii	10	N	OBL	present, unless disturbed or problematic.
4.					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.
	Total Cover =	85	_		
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =				
Remarks:	The sample site is dominated by hybrid catta	ail, reed car	nary grass	, and willo	ow species.
Additional I	Remarks:				