WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/23/14	
Applicant:		Enbridge				0.1	/NAL D. 3	۸ ا D D \			County:	Marshall	
Investigators		NTT/BEH				Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit: Landform:	I24A Depression	<u> </u>			١.	cal Relief:		'I Classification:			Sample Dairt	- w-155n/5w2/-a1	
Slope (%):	Depression 16 - 25%		Latitude: 48.	202720			-96.425	5426	Datum:		Sample Point	w-155n45w34-g1	
. ,		onditions on the site							✓ Patum:	□ No	Section:		
Are Vegetati			<u> </u>			۸. ۱ (۱۱ ۱۱۵, GX	_	e normal circun			Township:		
Are Vegetati			□aturally p	•				e normal circuit ☑ Yes		5551 IC 1	Range:	Dir:	
SUMMARY (-acarany p					_ 103	_ 110		90.		
Hydrophytic			Yes	6					Hvdric Soil	s Present?	Yes		
•	drology Prese		Yes			-					nt Within A W	etland? Yes	
Remarks:		d is a shallow mars			roadsid	e ditch an	d domina	ated by narrow-					
								,		•	<u> </u>		
HYDROLOG	Υ												
		licators (Check all	that apply:	Minimu	ım of on	e primary	or two s	econdary requir	red)•				
Primary		inoators (Oricon all	ιται αρριγ,		airi Oi Oil	o piiinai y	OI 100 S	condary requi	100/1	Secondary:			
<u>- 1 111101 y</u>	A1 - Surface	Water				B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturation					C1 - Hydro					B10 - Drainage		/4:II = _I\
	B1 - Water M B2 - Sedimer					C2 - Dry S		ater Table spheres on Living	Poote (not till	, –	C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B3 - Drift Der	•						educed Iron	Roots (not till			n Visible on Aerial Imagery	
	B4 - Algal Ma					C7 - Thin I				✓	D2 - Geomorp		
	B5 - Iron Dep	osits				Other (Exp				 ✓	D5 - FAC-Neu	tral Test	
		on Visible on Aerial Ima	agery			•					D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves											
First total													
Field Obser		· · · · · · ·	_			<i>(</i> !)							
	ter Present?			oth:		_ (in.)			Wetland H	lydrology l	Present?	Υ	
Water Table		Yes		oth:		- (in.)				, 0,			
Saturation P	resent?	Yes □	Dep	oth:		(in.)							
						-							
Describe Rec	corded Data (stream gauge, monit	toring well, a	aerial ph	notos, pr	<u> </u>	pections),	<u> </u> , if available:					
Describe Red Remarks:		stream gauge, monit				evious insp			drophytic ve	getation an	d landscape	position.	
						evious insp			drophytic ve	getation an	d landscape	position.	
Remarks:	No primary	hydrology indicator	rs are prese	ent. We	etland hy	evious insp drology is	s assume	ed based on hyd	. ,	getation an	d landscape	position.	
Remarks: SOILS Profile Descr	No primary	hydrology indicator	rs are prese	ent. We	etland hy	evious insponder of colors or colors	assume	ed based on hyd ne absence of in	ndicators.)	getation an	d landscape	position.	
Remarks: SOILS Profile Descr	No primary	hydrology indicator	rs are prese	ent. We	etland hy	evious insponder of colors or colors	assume	ed based on hyd ne absence of in	ndicators.)	getation an	d landscape	position.	
Remarks: SOILS Profile Descr	No primary	hydrology indicator ibe to the depth ned letion, RM=Reduced Ma	rs are prese	ent. We	etland hy	evious insponder of colors or colors	assume onfirm th	ed based on hydne absence of in Pore Lining, M=Matr	ndicators.)	getation an	d landscape	position.	
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	hydrology indicator libe to the depth new letion, RM=Reduced Ma	rs are prese	cument ered/Coat	etland hy the indi	evious insponder of colors and colors or color	onfirm th	ed based on hydne absence of in Pore Lining, M=Matr	ndicators.)		d landscape		
Remarks: SOILS Profile Descr	No primary	hydrology indicator ibe to the depth ned letion, RM=Reduced Ma	rs are prese	cument ered/Coat	etland hy	evious insponder of colors and colors or color	assume onfirm th	ed based on hydne absence of in Pore Lining, M=Matr	ndicators.)	getation an Texture	d landscape	position. Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	hydrology indicator libe to the depth new letion, RM=Reduced Ma	rs are prese	cument ered/Coat	etland hy the indi	evious insponder of colors and colors or colors and colors or colors and colo	onfirm th	ed based on hydne absence of in Pore Lining, M=Matr	ndicators.)		d landscape		
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary	hydrology indicator libe to the depth necession, RM=Reduced Matrix Color (Moist)	eded to docatrix, CS=Cove	cument ered/Coat	the indited Sand	evious inspondence of control of	onfirm th	ne absence of in Pore Lining, M=Matr	ndicators.)		d landscape		
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Dep	hydrology indicator libe to the depth necession, RM=Reduced Matrix Color (Moist)	eded to docatrix, CS=Cove	cument ered/Coat	the indited Sand	evious inspondence of cator or configurations; Local Moist)	onfirm th	ne absence of in Pore Lining, M=Matr	Location	Texture Indicators f	or Problemati	Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.)	No primary ription (Descrentration, D=Dep	hydrology indicator libe to the depth ned letion, RM=Reduced Ma Matrix Color (Moist) I Indicators (che	eded to docatrix, CS=Cove	cument ered/Coat	the indited Sand Color (ors are r	evious inspondence in a cator or configuration of cator or configuration of cator or configuration of cator or configuration of cator or c	onfirm th	ne absence of in Pore Lining, M=Matr	Location	Texture Indicators f A9 - 1 cm M	or Problemation	Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep	hydrology indicator libe to the depth needletion, RM=Reduced Markix Matrix Color (Moist) I Indicators (checking depth of the depth needletion)	eded to docatrix, CS=Cove	indicato	ctland hy the indited Sand Color (Color (Sandy R Stripped	evious inspondence of cator or configurations; Local Moist) not preserved and the cator or configuration of cator or configuration of cator or configuration of cator or cato	onfirm the ation: PL=P Mottl % at):	ne absence of in Pore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast	or Problemation	Remarks c Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	hydrology indicator libe to the depth ned letion, RM=Reduced Ma Matrix Color (Moist) I Indicators (che	eded to docatrix, CS=Cove	indicato	ctland hy the indited Sand Color (Color (Sandy R Stripped Loamy R Loamy C	evious inspondered in a cator or configuration of cator or configuration of cator or configuration of cator or configuration of cator or c	onfirm the ation: PL=P Mottl % ation: The ation of the	ne absence of in Pore Lining, M=Matr	Location	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	Remarks c Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	hydrology indicator libe to the depth neeletion, RM=Reduced Ma Matrix Color (Moist) I Indicators (check of the color stice of Sulfide of Layers (LRR F) ack (LRR FGH) and Below Dark Surface of Dark Surface of Surface	eded to docatrix, CS=Cove	indicate S5 - S6 - F1 - F2 - F6 - F7 - F8 -	ctland hy tetland hy tetland hy ted Sand Color (Color (Sandy R Stripped Loamy R Loamy R Depleted Redox D Redox D Redox D Redox D	evious inspondrology is cator or conference of cator or conference of cator or conference of cator or conference of cator or cator of cato	onfirm the ation: PL=P Mottl % ation: The ation in the	ed based on hydene absence of in Pore Lining, M=Matrolles Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	For Problemation Juck (LRR I, J) Prairie Redox Jurface (LRR G) Plains Depression Plains Depression Plains Material	Remarks c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	hydrology indicator libe to the depth needletion, RM=Reduced Markix Color (Moist) Indicators (check the color stice of Sulfide depth Layers (LRR F) ack (LRR FGH) and Below Dark Surface for Surface for Surface for Surface for Surface for Surface for Peat (LRR FOR FOR FOR FOR FOR FOR FOR FOR FOR F	eded to docatrix, CS=Cove	indicate S5 - S6 - F1 - F2 - F6 - F7 - F8 -	ctland hy tetland hy tetland hy ted Sand Color (Color (Sandy R Stripped Loamy R Loamy R Depleted Redox D Redox D Redox D Redox D	evious inspondrology is cator or conference of cator or conference of cator or conference of cator or conference of cator or cator of cato	onfirm the ation: PL=P Mottl % ation: The properties of the prop	ed based on hydene absence of in Pore Lining, M=Matrolles Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	For Problemation Sor Problemation Sor Problemation Solution Prairie Redox For Problemation For Problemation In Care (LRR G) Prairie Redox Prairie Redox For Problemation In Care (LRR G) Prairie Redox For Problemation In Care (LRR G) Prairie Redox In Care (LRR G) Prairie	Remarks c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	resent,
Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M	hydrology indicator libe to the depth needletion, RM=Reduced Markix Color (Moist) Indicators (check the color stice of Sulfide depth Layers (LRR F) ack (LRR FGH) and Below Dark Surface for Surface for Surface for Surface for Surface for Surface for Peat (LRR FOR FOR FOR FOR FOR FOR FOR FOR FOR F	eded to docatrix, CS=Cove	indicate S5 - S6 - F1 - F2 - F6 - F7 - F8 -	ctland hy tetland hy tetland hy ted Sand Color (Color (Sandy R Stripped Loamy R Loamy R Depleted Redox D Redox D Redox D Redox D	evious inspondrology is cator or conference of cator or conference of cator or conference of cator or conference of cator or cator of cato	onfirm the ation: PL=P Mottl % ation: The properties of the prop	ed based on hydene absence of in Pore Lining, M=Matrolles Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	for Problemation Juck (LRR I, J) Prairie Redox Jurface (LRR G) Plains Depression Jurface Vertic Parent Material Shallow Dark Stain in Remarks)	Remarks c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	resent,
Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm M S4 - Sandy G	hydrology indicator libe to the depth neeletion, RM=Reduced Marix Color (Moist) I Indicators (check the color stice on Sulfide de Layers (LRR F) luck (LRR FGH) led Below Dark Surface flucky Mineral Mucky Peat or Peat (LR licky	eded to docatrix, CS=Cove	indicate S5 - S6 - F1 - F2 - F6 - F7 - F8 -	ctland hy ted sand Color (Color (Sandy R Stripped Loamy N Loamy C Redox D Redox D Redox D Redox D Redox D Redox D	cator or control of control of preserved Matrix Mucky Miner Cleyed Matrix Mucky Miner Cleyed Matrix Matrix Dark Surfaced Dark Su	onfirm the ation: PL=P Mottl % ation: The properties of the prop	ed based on hydene absence of in Pore Lining, M=Matrolles Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problemation Sor Problemation Sor Problemation Solution Prairie Redox Surface (LRR G) Plains Depression Sed Vertice Parent Material Shallow Dark Solution Shallow Dark Solution Shallow Dark Solution So	Remarks c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	resent,
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	e: L3R				Sample Point: w-155n45w34-g1
VEGETATIO	` ` `	non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% 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.					(=)
					Develop of Deminent Charles That Ave ODL FACIAL or FAC: 100 09/ (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. 60 x 1 = 60
	Total Cover =	0			FACW spp. 35 $\times 2 = 70$
					FAC spp. $5 x 3 = 15$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$
1.	Otracam (Fiot 6ize: To it. radiae)				UPL spp. $0 \times 5 = 0$
2.					0, 2 opp
					Total 100 (A) 145 (B)
3.					Total 100 (A) 145 (B)
4.					
5.					Prevalence Index = B/A = 1.450
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			
		U	_		
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	40	Y	OBL	
2.	Spartina pectinata	25	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Carex pellita	20	Υ	OBL	present, unless disturbed or problematic.
4.	Phalaris arundinacea	10	N	FACW	Definitions of Vegetation Strata:
5.	Solidago gigantea	5	N	FAC	
6	Gondago gigantea	<u> </u>	- 11	1710	Troo - West state of (7.0 m) and the line of the state of
					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Height (BBH), 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.
13.	T / 10	100			VVOOdy Villes - All Woody Villes, Tegardiess of Height.
	Total Cover = _	100	_		
Woody Vine S	Stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					,
4.					
	Total Cover =	0			
Damente			المالمة		
Remarks:	•	ow-leat cat	ttail and pi	rairie cord	grass with a mixture of other plants commonly found within roadside ditches in the
	region.				
Additional	Remarks:				
, taditional					