## WETLAND DETERMINATION DATA FORM Great Plains Region

D		LOD								Data	00/47/4
Project/Site:		L3R								Date:	09/17/14
Applicant:		Enbridge			0	/A 41 D 4		141 5 4 50		County:	Marshall
Investigators		BJC/RAJ			_Subregio	•	A or LRR):	MLRA 56		State:	MN
Soil Unit:					NWI Classification:						
Landform:	Footslope		10.0		ocal Relief:					Sample Point:	u-156n46w33-k1
Slope (%):	3 - 7%		atitude: 48.28			-96.575		Datum:			
	·	nditions on the site t			ar? (If no, ex				□ No	Section:	
Are Vegetation		, ,		/ disturbed?		Are	e normal circun	nstances pr	esent?	Township:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □	naturally pro	blematic?				□ No		Range:	Dir:
SUMMARY C	OF FINDINGS	5									
Hydrophytic \	Vegetation P	resent?	No					Hydric Soi	Is Present?	No	
Wetland Hyd	•		No		_			Is This Sar	mpling Poin	t Within A W	etland? <b>No</b>
Remarks:			ted in a cult	ivated sovbe	ean field. T	he vege	tation is signific				lication. The soils are
	•	disturbed due to tilli		,		3	<b></b>	,			
HYDROLOG'			9.								
		(2)									
_		icators (Check all th	nat apply; M	inimum of or	ne primary	or two s	econdary requi	red):			
Primary:				_	544 6 1	•			Secondary:	Do 0 ( 0	
	A1 - Surface				B11 - Salt					B6 - Surface S	
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro					B10 - Sparsely	Vegetated Concave Surface
	B1 - Water M			Ä	C2 - Dry S				H		Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not till	le 🗆	C8 - Crayfish E	
	B3 - Drift Dep	•					educed Iron	(		•	n Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust			C7 - Thin I	Muck Surfa	ace			D2 - Geomorp	hic Position
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
		n Visible on Aerial Imag	gery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
							_				
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Depth	n:	(in.)			Watland L	Jydrology [	Procent?	N
Water Table	Present?	Yes □	Depth	n:	(in.)			welland r	lydrology i	- resent :	IN
Saturation Pr	resent?	Yes □	Depth	n:	_ (in.)						<del></del>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Docaribo Boo	orded Data (c	stroom gauge monitor	ring well as	rial photos pu		octions)	if available:				
	•					pections),	, if available:				
Describe Reco	•	stream gauge, monitors of wetland hydrolo				pections),	, if available:				
Remarks:	•					pections),	, if available:				
Remarks:	No indicato	rs of wetland hydrolo	ogy were ob	served.	evious insp			adiantora )			
Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydrolo	ogy were ob	served.	revious insp	onfirm th	e absence of ir				
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Remarks:  SOILS Profile Descri	No indicato	be to the depth need	ogy were ob	served.	revious insp	onfirm th	ne absence of ir Pore Lining, M=Mati				
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth need etion, RM=Reduced Matrix	ded to docu	ment the ind	revious inspired icator or congressions; Local	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	rix)			Danaarka
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth need etion, RM=Reduced Matrix  Color (Moist)	ded to docu ix, CS=Covere	ment the ind	revious inspired icator or congressions; Local	onfirm th	ne absence of ir Pore Lining, M=Mati		Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5	No indicatorion (Description (Description, Dependent of the Depndent of the De	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1	ded to docu	ment the ind	revious inspired icator or congressions; Local	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	rix)	Texture LS		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1	ded to docu ix, CS=Covere	ment the ind	revious inspired icator or congressions; Local	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	rix)			Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5	No indicatorion (Description (Description, Dependent of the Depndent of the De	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1	ded to docu ix, CS=Covere	ment the ind	revious inspired icator or congressions; Local	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	rix)			Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18	No indicator iption (Description, D=Deplementation, D=Deplementati	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  6/4	ded to docu ix, CS=Covere	ment the ind	icator or co	onfirm th	e absence of in Pore Lining, M=Matr es Type	rix)			Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18	No indicatorion (Description (Description, Dependent of the Depndent of the De	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  6/4	ded to docu ix, CS=Covere	ment the ind	icator or co	onfirm th	ne absence of in Pore Lining, M=Matr	rix)	LS S		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr	No indicator iption (Description, Depointment of the Depointment of th	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  6/4	ded to docu ix, CS=Covere	ment the ind d/Coated Sand  Color (	icator or configurations; Local	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	LS S Indicators f	or Problematic	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-5  5-18  NRCS Hydr	No indicato  iption (Description, D=Depl  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol	be to the depth needetion, RM=Reduced Matrix  Color (Moist)  2/1 6/4  Indicators (check	ded to docu ix, CS=Covere	ment the ind d/Coated Sand  Color of the dicators are  S5 - Sandy F	icator or configurations; Local (Moist)  Moist)  not presented the configuration of the confi	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	LS S Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 6/4  Indicators (checking)	ded to docu ix, CS=Covere	ment the ind d/Coated Sand  Color (	icator or congrains; Local (Moist)  not presented Matrix	onfirm the stion: PL=P  Mottl %  at):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup> (LRR F, G, H)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 6/4  Indicators (checking Sulfide)	were oboded to docu ix, CS=Covere % 100 100 ck here if in	ment the ind d/Coated Sand  Color (Color (Co	icator or congrains; Local (Moist)  not present Redox Matrix Mucky Miner Gleyed Matrix	onfirm the stion: PL=P  Mottl %  at):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox ( urface (LRR G) l'lains Depressio	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 6/4  Indicators (checking Sulfide Layers (LRR F)	y were oboded to docu ix, CS=Covered 100 100 ck here if ind	ment the ind d/Coated Sand  Color (  Color (  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete	icator or congrains; Local  (Moist)  Redox d Matrix Mucky Miner Gleyed Matrix d Matrix	monfirm the stion: PL=P  Mottl %  at):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox ( urface (LRR G) lains Depression ed Vertic	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  6/4  Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH)	y were oboded to docu ix, CS=Covered 100 100 ck here if ind	ment the ind d/Coated Sand  Color (Color (Co	icator or congrains; Local  (Moist)  not present Matrix Mucky Miner Gleyed Matrix Dark Surface	onfirm the tion: PL=P  Mottl %  at):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	uck (LRR I, J) Prairie Redox ( urface (LRR G) Pains Depression ed Vertic arent Material	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 S4 - Sandy G	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 6/4  Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) in Below Dark Surface ark Surface ark Surface ucky Mineral Mucky Peat or Peat (LRR FCky Peat or Peat (LR	gy were oboded to docu ix, CS=Covere % 100 100 ck here if in	ment the ind d/Coated Sand  Color (Color (Co	revious inspections (Moist)  (Moist)  Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions lains Depressions	monfirm the stion: PL=P  Mottl %  at):  ral fix  exace	es Type  LRA 72, 73 of LRF	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S in in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface

Project/Site:	L3R				Sample Point: u-156n46w33-k1
VEGETATION		·	. ,		
VEGETATION	(Species identified in all uppercase an Plot size: 30 ft. radius)	e non-native	species.)		
Tree Stratum (	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species Hairie</u>	<u> 70 00VCI</u>	Dominant	<u>ma.otatas</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	T. (10)				OBL spp. 0
	Total Cover =	0	_		OBL spp. 0
Conling/Chrub C	Ctratum (Diatoire, 15 ft radius)				FACTIONS $0 \times 3 = 0$
1.	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					οι L spp
3.					Total 70 (A) 350 (B)
4.					
5.					Prevalence Index = B/A = 5.000
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) *
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	70	Υ	NI	
2.					* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.					·
4.   5.					Definitions of Vegetation Strata:
6 l					Tree - Was do plants 2 in (7 Care) or many in diameter at hypost
7.					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.					
9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	70	_		
Woody Vine Str	atum (Plot size: 30 ft. radius)				
1.				_	
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	Total Cover =	0		_	
Remarks:			ans Bare	soil acco	ounts for approximately 30 percent of ground cover.
nomano.	The apiana sample point is dominated by He	aiting Suyut	ano. Dare	Jon acco	ditto for approximatory 50 percent of ground cover.
Additional R	emarks:				
Auditional R	GIIIAI NO.				