WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14
Applicant: Enbridge							County:	Pennington			
Investigators: BJC/RAJ				Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit:	I55A NWI Classification:										
Landform:	Rise				cal Relief:					Sample Point:	u-153n44w2-d1
Slope (%):	0 - 2%		le: 48.09		Longitude:			Datum:			
		nditions on the site typic			ar? (If no, ex			Yes	□ No	Section:	
Are Vegetation				disturbed?		Are	e normal circun	nstances pro	esent?	Township:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □atu	rally prol	blematic?			Yes	□ No		Range:	Dir:
SUMMARY C	OF FINDINGS	5									
Hydrophytic \	Vegetation P	resent?	No		_			Hydric Soi	ls Present?	No	
Wetland Hyd	drology Prese	nt?	No					Is This Sai	mpling Poin	nt Within A W	etland? No
Remarks: The upland sample point is on a rise dominated by big bluestem. It is located near the edge of an area of Shrub-Carr and shallow marsh.											
HYDROLOG	Υ										
Wetland Hy	drology Ind	icators (Check all that a	pply: Mir	nimum of on	e primary	or two s	econdary requi	red):			
Primary:	•	outoro (or rook all triat a	ppry, iviii		o primary	OI two o	coordary roqui		Secondary:	:	
<u> </u>	A1 - Surface \	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa	ter Table			B13 - Aqua	atic Fauna				B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water M				C2 - Dry S			5			Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not till	• -	C8 - Crayfish I	
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese		duced Iron			D2 - Geomorp	n Visible on Aerial Imagery
	B5 - Iron Dep				Other (Exp		200			D5 - FAC-Neu	
		n Visible on Aerial Imagery		_	O 11101 (2)4p						aved Hummocks (LRR F)
	B9 - Water-St	0 1									,
Field Observ	vations:										
Surface Wate	er Present?	Yes	Depth:		(in.)			VA7 - 41 1 1		D	N.I.
Water Table		Yes	Depth:		(in.)			wetland F	lydrology	Present?	N
Saturation Pr		Yes	Depth:		- (in.)						_
	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks: No indicators of wetland hydrology were observed.											
Remarks.	No indicator		vere obs			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii avaiiabie.				
	No indicator		vere obs			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii avaliable.				
SOILS		rs of wetland hydrology v		erved.	·	,		idicators)			
SOILS Profile Descri	iption (Descri		to docun	erved.	cator or co	onfirm th	e absence of in				
SOILS Profile Descri	iption (Descri	be to the depth needed	to docun	erved.	cator or co	onfirm th	e absence of in				
SOILS Profile Descri	iption (Descri	be to the depth needed	to docun	erved.	cator or co	onfirm th	e absence of in ore Lining, M=Matr				
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed to the RM=Reduced Matrix, CS	to docun S=Covered	nent the indi	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed to the Reduced Matrix Matrix Color (Moist)	to docun S=Covered %	erved.	cator or co	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	iption (Descri	be to the depth needed to	to docum S=Covered % 100	nent the indi	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	FSL	Lote of gravel pre	
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed to	to docun S=Covered %	nent the indi	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)		Lots of gravel pre	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	iption (Descri	be to the depth needed to	to docum S=Covered % 100	nent the indi	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	FSL	Lots of gravel pre	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	iption (Descri	be to the depth needed to	to docum S=Covered % 100	nent the indi	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	FSL	Lots of gravel pre	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	iption (Descri	be to the depth needed to	to docum S=Covered % 100	nent the indi	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	FSL	Lots of gravel pre	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 5/3	% 100 100	nent the indi //Coated Sand	cator or co	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	ix)	FSL	Lots of gravel pre	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 5/3	% 100 100	nent the indi	cator or co	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr	ix)	FSL FS		esent
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	Hue_10YR Hue_10YR Hue_Stic Soil Field	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 5/3	% 100 100	nent the indi /Coated Sand Color (cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	FSL FS	for Problemation	esent
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth needed to the depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/3 Indicators (check he	% 100 100	nent the indi //Coated Sand Color (cator or cograins; Loca Moist) not presented as a second content of the content	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	FSL FS Indicators f	for Problemation	c Soils ¹
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needed to	% 100 100	nent the indi //Coated Sand Color (icators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist) not presented a content of presente	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast	for Problemation for Problemation fuck (LRR I, J) Prairie Redox	c Soils ¹
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed to the detion, RM=Reduced Matrix. Color (Moist) 2/1 5/3 Indicators (check he dipedon stic	% 100 100	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or cograins; Loca Moist) not presented a matrix Mucky Miner	mottle which was al	e absence of in ore Lining, M=Matr es Type	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation for Problemation fuck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed to the tion, RM=Reduced Matrix. Color (Moist) 2/1 5/3 Indicators (check he ipedon stice in Sulfide	% 100 100 ere if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or congrains; Local Moist) Moist) not presented with the congrains of the congrain of the congrains of the congrain of the cong	mottle which was al	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemation for Problemation fuck (LRR I, J) Frairie Redox (furface (LRR G) Plains Depression	c Soils ¹
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 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 needed to the tion, RM=Reduced Matrix. Color (Moist) 2/1 5/3 Indicators (check he ipedon stice in Sulfide	% 100 100 ere if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Matrix Matrix Matrix Matrix Matrix	mottle which was all and a second conformation and a second conformati	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	for Problemation for Problemation fuck (LRR I, J) Frairie Redox (furface (LRR G) Plains Depression	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Depth (In.) 0-12 12-18 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 needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 5/3 Indicators (check he ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	% 100 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D	cator or configurations; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Park Surface Blook Surface	mottle which was all and a second conformation and a second conformati	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation for Problemation fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ped Vertic Parent Material	esent c Soils (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 5/3 Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	% 100 100 ere if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix	mottle which was all and a constant of the con	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S	esent c Soils (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 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	be to the depth needed to the to the depth needed to the depth needed to the too, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/3 Indicators (check he depth needed to the too, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/3 Indicators (check he depth needed to the too, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/3	% 100 100 ere if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix	mottle which was all and a constant of the con	e absence of in ore Lining, M=Matrees Type	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemation Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression Ced Vertic Parent Material Shallow Dark Seain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel 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 to the to the depth needed to the depth needed to the to the depth needed to the to the detion, RM=Reduced Matrix. Color (Moist) 2/1 5/3 Indicators (check he to the check he to th	% 100 100 ere if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix	mottle which was all and a constant of the con	e absence of in ore Lining, M=Matrees Type	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemation for Problemation fuck (LRR I, J) Frairie Redox (urface (LRR G) Plains Depression fuck Vertic Forent Material	esent c Soils (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w2-d1				
		,							
VEGETATIO	N (Species identified in all uppercase	are non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)				
3.									
4.					Total Number of Dominant Species Across All Strata:(B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0				
	Total Cover	= 0	FACW spp. $\underline{\qquad}$ $X 2 = \underline{\qquad}$ $\underline{\qquad}$ 10						
					FAC spp. $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ 30				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 85 $X 4 = 340$				
1.					UPL spp. $0 x 5 = 0$				
2.									
3.					Total 100 (A) 380 (B)				
4.									
5.					Prevalence Index = B/A = 3.800				
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 (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Andropogon gerardii	40	Υ	FACU					
2.	Poa pratensis	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Solidago altissima	15	N	FACU	present, unless disturbed or problematic.				
4.	Solidago gigantea	10	N	FAC	Definitions of Vegetation Strata:				
5.	Fragaria virginiana	5	N	FACU					
6	Anemone canadensis	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	The ment danageners			171011	height (DBH), regardless of height.				
8.									
9.	<u> </u>				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.	1				Supinity Sin ab				
11.	<u> </u>								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.	<u> </u>				rierb - 7 in Horbacocae (Hori Wood)/ plants, regardose of oizo.				
14.	<u> </u>								
	<u> </u>				Woody Vines - All woody vines, regardless of height.				
15.	Tatal Oassa	100			Woody Vines - All Woody Vines, Tegardiess of Height.				
	Total Cover	= 100	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cover								
Remarks: The upland sample point is dominated by big bluestem and Kentucky bluegrass.									
Additional Remarks:									