WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R									Date:	07/01/14	·	
Applicant: Investigators	Enbridge : BEH/BCS				Cubragia	n /MI D A	or LDD\:	MIDAEG		County: State:	Kittson MN		
Soil Unit:	rs: BEH/BCS I134A			Subregion (MLRA or LF NWI Class				MLRA 56		State.	IVIIN		
Landform:	Shoulder			Lo	cal Relief:		Ciacomoation			Sample Point:	u-160n49w32-a1		
Slope (%):	0 - 2%		atitude: 48.63		Longitude:			Datum:]			
		nditions on the site t			ar? (If no, exp				☑ No	Section:			
Are Vegetation				disturbed?		Are	normal circur	•	esent?	Township:			
Are Vegetation		☐ or Hydrology	⊥ aturally pro	blematic?			Yes	□No		Range:	Dir:		
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? No Hydric Soils Present? No													
Hydrophytic Vegetation Present? Wetland Hydrology Present?											etland? No		
Remarks:			No ted in a suc	No Is This Sampling Point Within A Wetland? Is sugar beet field upslope from a nearby roadside ditch. The area has received a high amount of						enand? No amount of precipitation in re	cent		
	weeks.						,			g			
HYDROLOG	Υ												
Wetland Hy	drology Indi	cators (Check all th	nat apply: M	inimum of on	e primary	or two se	econdary requi	red):					
Primary:		Catoro (Orlock all a	iat apply, ivi		o primary	0	occinatily roqui	100/1	Secondary:				
A1 - Surface Water					B11 - Salt					B6 - Surface S			
	A2 - High Wat A3 - Saturatio										☐ B8 - Sparsely Vegetated Concave Surface☐ B10 - Drainage Patterns		
	B1 - Water Ma				C2 - Dry S	eason Wa	ter Table			C3 - Oxidized	Rhizospheres on Living Roots (t	illed)	
	B2 - Sediment						pheres on Living	Roots (not till		C8 - Crayfish E			
	B3 - Drift Dep B4 - Algal Mat				C4 - Prese C7 - Thin N					D2 - Geomorp	n Visible on Aerial Imagery hic Position		
	B5 - Iron Depo	osits			Other (Exp					D5 - FAC-Neu	tral Test		
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Imag	jery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	ba - Water-St	airieu Leaves											
Field Observ	vations:												
Surface Water		Yes 🔲	Depth	:	(in.)								
Water Table		Yes 🔲	Depth					Wetland F	lydrology l	Present?	N		
Saturation Pr	resent?	Yes 🔲	Depth		(in.)						_		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec	orded Data (s	tream gauge, monito	ring well, ae	rial photos, pre	evious insp	pections),	if available:						
Remarks:		tream gauge, monitor or secondary hydrole				ections),	if available:						
Remarks:						pections),	if available:						
Remarks:	No primary	or secondary hydrolo	ogical indica	ators were ob	served.								
Remarks: SOILS Profile Descri	No primary	or secondary hydrole	ogical indica	ators were ob	served.	onfirm th	e absence of ir						
Remarks: SOILS Profile Descri	No primary	or secondary hydrolo	ogical indica	ators were ob	served.	onfirm th	e absence of ir						
Remarks: SOILS Profile Descri	No primary	or secondary hydrole	ogical indica	ators were ob	served.	onfirm th	e absence of ir ore Lining, M=Mat						
Remarks: SOILS Profile Descri	No primary	or secondary hydrolo be to the depth need stion, RM=Reduced Matri	ogical indica	ators were ob	served. cator or co	onfirm the	e absence of ir ore Lining, M=Mat		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrolo be to the depth need stion, RM=Reduced Matrix	ogical indica ded to docu ix, CS=Covere	ment the indid/Coated Sand (Color (I	cator or co Grains; Loca Moist)	onfirm the	e absence of ir ore Lining, M=Mat es Type D	Location M	С		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary of primary	be to the depth need betion, RM=Reduced Matrix Matrix Color (Moist) 2.5/1	ogical indicated to docu	ment the indid/Coated Sand (served. cator or co Grains; Loca Moist)	onfirm the	e absence of in ore Lining, M=Mat es Type	Location	C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist)	ded to docu ix, CS=Covere	ment the indid/Coated Sand (Color (I	cator or co Grains; Loca Moist)	onfirm the	e absence of ir ore Lining, M=Mat es Type D	Location M	С		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-21	No primary of primary	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2.5/1 3/1	ded to docu ix, CS=Covere % 90	ment the indi d/Coated Sand (Color (I Hue 2.5Y	served. cator or cc Grains; Loca Moist) 6/1 5/3	Mottle % 4 6	e absence of ir ore Lining, M=Mat es Type D C	Location M	C C		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-21 NRCS Hydr	No primary ption (Descrintration, D=Deple Hue_2.5Y Hue_2.5YR	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2.5/1 3/1	ogical indicated to docu (x, CS=Covered) % 90 100 ck here if in	ment the indid/Coated Sand of Color (I Hue 2.5Y Hue 2.5Y	served. cator or co grains; Loca Moist) 6/1 5/3 not presen	Mottle % 4 6	e absence of ir ore Lining, M=Mat es Type D C	Location M M	C C C	For Problematic			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-21 NRCS Hydr	Hue_2.5Y Hue_2.5YR Hue_2.5YR Hue_3.5YR Hue_3.5	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2.5/1 3/1 Indicators (check of Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface eark Surface	ogical indicated by the second of the second	ment the indid/Coated Sand of Color (I Hue 2.5Y Hue 2.5Y Hue 2.5Y Color Sand of Color	served. cator or co grains; Loca Moist) 6/1 5/3 not presen edox Matrix lucky Miner, leyed Matri Matrix ark Surface Dark Surface pressions	Mottle Mottle Mottle 6 4 6 tt):	e absence of in one Lining, M=Mates Type C C	Location M M	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S0 F16 - High F F16 - Red F TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression and Vertic Parent Material	C Soils¹ LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Surface		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n49w32-a1
VEGETATIOI	N (Species identified in all uppercase an	e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
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.					Total Number of Borninant Species Across All Strata.
					Descript of Description That Are ORL FACING on FACING (AID)
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 x 1 = 0
	Total Cover =	0			FACW spp. 0 x 2 = 0
	•				FAC spp. 3 x 3 = 9
Sanling/Shruh	Stratum (Plot size: 15 ft. radius)				FACU spp. 3 x 4 = 12
1.	Stratum (Flot size: 13 ft. radius)				
2.					UPL spp. 0 x 5 = 0
3.					Total 6 (A) 21 (B)
4.					
5.					Prevalence Index = B/A = 3.500
6.				-	
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					
10.	Total Cours -	0			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.	Beta vulgaris	35	Y		
2.	Calystegia sepium	3	N	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Amaranthus retroflexus	3	N	FACU	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.				_	.
6					Tree
7.				_	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
				_	g(= - · /,) · -ga · · · · · · · · · · · · · · ·
8.					But the but the second
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.	Total C	44			,
	Total Cover =	41	_		
	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.				_	
···	Total Cover =	0			
Demarks:	The sample point is dominated by sugar bee				
Remarks:	The sample point is dominated by sugar bee	15.			
Additional R	Remarks:				
					-