WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	: I24A Backslope	L3R Enbridge RAJ/BEH		Subregion (MLRA or LRR): MLRA 56 NWI Classification: Local Relief: LV							Date:08/21/14County:MarshallState:MNu-156n46w21-c1	
Slope (%):	3 - 7%	nditions on the sit	Latitude: 4			Longitude:			Datum: ☑ Yes	□ No	Section:	
Are Vegetatio	· · ·	□, or Hydrology			-	u: (ii no, exp		e normal circun			Township:	
Are Vegetation		□, or Hydrology	•					☑ Yes	□ No		Range: Dir:	
SUMMARY C										-		
Hydrophytic V	-			′es					Hydric Soil			
Wetland Hyd Remarks:				lo of an		lland			is this Sar	npling Poin	nt Within A Wetland? No	
Remarks.	Remarks: The upland area is located at the edge of an aspen woodland.											
HYDROLOG	Y											
A2 - High Water TableB13 - Aquatic FaunaB8 - SparselyA3 - SaturationC1 - Hydrogen Sulfide OdorB10 - DrainageB1 - Water MarksC2 - Dry Season Water TableC3 - OxidizedB2 - Sediment DepositsC3 - Oxidized Rhizospheres on Living Roots (not tilleC8 - CrayfisherB3 - Drift DepositsC4 - Presence of Reduced IronC9 - SaturationB4 - Algal Mat or CrustC7 - Thin Muck SurfaceD2 - GeomonB5 - Iron DepositsOther (Explain)D5 - FAC-Net									 B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F) 			
Field Observ Surface Water Water Table Saturation Pr	er Present? Present? resent?	Yes □ Yes □ Yes □	D	Depth: Depth: Depth:		(in.) (in.) (in.)		if available.	Wetland H	lydrology l	Present? N	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Indicators of wetland hydrology are not present.												
Remarks:	indicators of		gy are not	prese	ent.							
SOILS												
		be to the depth ne etion, RM=Reduced M										
(1900: 0-0011001												
		Matrix					Mottle	es	1			
Depth (In.)		Color (Moist)		%	Color (N	Moist)	%	Туре	Location	Texture	Remarks	
0-13	Hue_10YR	2/1		100								
13-23 23-30	Hue_10YR Hue_2.5YR	<u> </u>		100 93	Hue_10YR	6/8	2	С	M	LFS FS		
23-30	Hue_10YR	2/1		5		0/0	2			L	streaking	
										_		
	A1- HistosolS5 - Sandy RedoxA2 - Histic EpipedonS6 - Stripped MatrixA3 - Black HisticF1 - Loamy Mucky MineralA4 - Hydrogen SulfideF2 - Loamy Gleyed MatrixA5 - Stratified Layers (LRR F)F3 - Depleted MatrixA9 - 1 cm Muck (LRR FGH)F6 - Redox Dark SurfaceA11 - Depleted Below Dark SurfaceF7 - Depleted Dark SurfaceA12 - Thick Dark SurfaceF8 - Redox DepressionsS1 - Sandy Mucky MineralF16 - High Plains Depressions (MLRS2 - 2.5 cm Mucky Peat or Peat (LRR G, H)S3 - 5 cm Mucky Peat or Peat (LRR F)S4 - Sandy Gleyed MatrixF16 - High Plains Depressions								¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
Restrictive Layer	r Type:	Depth:			Hydric So	Hydric Soil Present? N						
	•											

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Project/Site	: L3R				Sample Point: u-156n46w21-c1					
VEGETATIO		re non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius)									
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet					
1.	Populus tremuloides	2	N	FAC						
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 5 (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: <u>Multiply by:</u>					
10.					OBL spp. $5 \times 1 = 5$					
	Total Cover =	2			FACW spp. 5 $x 2 = 10$					
					FAC spp. 47 X $3 = 141$					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 35 $x 4 = 140$					
1.	Populus tremuloides	15	Y	FAC	UPL spp. 20 X 5 = 100					
2.	Salix petiolaris	5	Y	OBL						
3.					Total <u>112</u> (A) <u>396</u> (B)					
4.										
5.					Prevalence Index = $B/A = 3.536$					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					X Dominance Test is > 50%					
	Total Cover =	20			Prevalence Index is ≤ 3.0 *					
			_		Morphological Adaptations (Explain) *					
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Poa pratensis	30	Y	FACU						
2.	Solidago gigantea	30	Y	FAC	* Indicators of hydric soil and wetland hydrology must be					
3.	Bromus inermis	20	Y	UPL	present, unless disturbed or problematic.					
4.	Solidago altissima	5	N	FACU	Definitions of Vegetation Strata:					
5.	Anemone canadensis	5	N	FACW						
6		0			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.					
<u> </u>					Saping/Sinub - Woody plante lees than o int. 2211, Tegaraless of height.					
11.					Herb - All herbaceous (non-woody) plants, regardless of size.					
12.					Herp - All herbaceous (holewoody) plants, regardless of size.					
13.	1									
14.					Mondy Vince All woody vince regardloss of beight					
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	90	_							
Woody Vine S	tratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.										
4.										
Total Cover = 0										
Remarks: The upland community is near an aspen woodland. The dominance test is met because of the presence of some meadow willow and facultative species, but										
overall the community is not a wetland plant-dominated community.										
Additional Remarks:										