WETLAN	D DETERMINATIO	N DATA FOI	RM - Great Pla	ains Region	
Project/Site: 13_decom Cit	y/County: Marshall			Sampling Date:	2017-06-23
Applicant/Owner: Enbridge		State: Mini	nesota	Sampling Point:	u-155n45w20-aa1
Investigator(s): SMR, MRG	 Se	ction, Townsh	nip, Range: S20,	 ,T155N, R45W	
Landform (hillslope, terrace, etc.): Rise		Local Relief	(concave, conv	ex, none): VV	Slope (%): 3-7%
Latitude: 48.2391708484	Longitude: -96			· · · <u></u>	· · /
Datum: NAD83					
Soil Map Unit Name: I65A				NWI Classificatio	on: N/A
Are climatic/hydrologic conditions on the site typical	for this time of yea	r? (if no. expl	ain in Remarks):	:	Yes
Are Vegetation No , Soil No , or Hydrology No					
Are Vegetation No , Soil No , or Hydrology No					
SUMMARY OF FINDINGS - Attach site map show					
	0	Is the Samp		·	
_	0	within a Wetland?		No	
Wetland Hydrology Present?	0		fyes, optional Wetland Site ID:		
Remarks: (Explain alternative procedures here or in	a separate report.)	1 ′ ′ ′			
 No digging allowed due to potential utilities present					
VEGETATION - Use scientific names of plants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot Size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 2	(B)
4				Percent of Dominant Species	
	0 =	Total Cover		That Are OBL, FACW, or FAC: 50	(A/B)
Sapling/Shrub Stratum (Plot Size: 15)				Prevalence Index worksheet:	
1				Total % Cover of:	Multiply by:
2				OBL species <u>0.00</u>	x 1 <u>0</u>
3				FACW species 0.00	x 2 <u>0</u>
4				FACU species 60.00	x 3 <u>160</u>
5				UPL species <u>0.00</u>	x 4 <u>0</u>
	0 = -	Total Cover		Column Totals 100	(A) <u>340</u> (B)
Herb Stratum (Plot Size: 5	60.00		546	Prevalence Index = B/	
1. Poa pratensis		es	FAC	Hydrophytic Vegetation Indicators	
2. Solidago canad ensis		es o	FACU FACU	no 1 - Rapid Test for Hydroph	,
Bromus inermis Taraxacum officinale		0	FACU	no 2 - Dominance Test is > 50 no 3 - Prevalence Index is ≤ 3	
5.	10.00		17100	4 - Morphological Adaptat	
6.				supporting data in Remarks or or	
				Problematic Hydrophytic V eget atior	n ¹
8.				(Explain)	
9.				Indicators of hydric soil and wetland hydrol	hav must be present
10				unless disturbed or problematic.	by must be present,
	100	T			
Woody Vine Stratum (Diet Gray 30	100 = -	Total Cover			
Woody Vine Stratum (Plot Size: 30					
1				Hydrophytic Vegetation	No
	0 =	Total Cover		Present?	
% Bare Ground in Herb Stratum		3.22. 30.01			
Remarks:			,	<u>u</u>	

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Profile Description: (Describe to the depth ne	eded to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	the absence of managers,
inches) Color (moist) %	Color (moist) % Type ¹ Loc	c ² Texture Remarks
	20.0. (, salare nemark
Type: C=Concentration, D=Depletion, RM=Reduced M	atrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=
ydric Soil Indicators:		Indicators for Problematic Hydric Soil ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)	1cm Muck (A9) (LRRI, J)
Histic Epipedon (A2)	Sandy Redox (S5)	Coast Prairie Redox (A16)(LRR K, L, R)
Black Histic (A3)	Stripped Matrix (S6)	Dark Surface (S7) (LRR G)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L)	High Plains Depressions (F16)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)
\neg		Reduced Vertic (F18)
1cm Muck (A9) (LRR F, G, H)	☐ Depleted Matrix (F3)	H
Depleted Below Dark Surface (A11)	Re dox Dark Surface (F6)	Red Parent Material (F21)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Other (explain in remarks)
2.5cm Mucky Peat or Peat (S2)(LRR G, H)	High Plains Depressions (F16)	
5cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72 & 73 of LRR H)	³ Indicators of hydrophytic vegetation and wetland hydrolc must be present, unless disturbed or problematic.
emarks:		
Io digging allowed due to potential utilities. Upland so	is assumed due to topography and upland vegetation	on.
IYDROLOGY Vetland Hydrology Indicators:		
rimary Indicators (minimum of one is required	d; check all that apply)	Secondary Indicators (minimum of two requ
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Water Marks (B1)	Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Roots (C3
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C	(where tilled)
Drift Deposits (B3)	(where not tilled)	Crayfish Burrows (C8)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)		Frost-Heave Hummocks (D7) (LRR F)
ield Observations:	Donth (inch as)	
urface Water Present? No	Depth (inches)	
Vater Table Present? aturation Present?	Depth (inches) Depth (inches)	Wetland Hydrology Present? No
ncludes capillary fringe)		vectaria riyarology r resent:
escribe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspection	ns), if available:
omarks:		
emarks: No digging due to potential utilities. Could not	verify water table and caturation	