	wet land
WETLAND DETERMINATION	N DATA FORM – Great Plains Region
Project/Site: Keystone M Phase TIL &	Sity/County: Handing Date: 11/5/10
Applicant/Owner: IransCanada - Irow - RAL	State: SD Sampling Point: 63500 HA005
Investigator(s): <u>B500</u>	Section, Township, Range: Sec. 4 19/0 9E
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>2%</u>
Subregion (LRR): Abottern Great Plains Lat: -	Long: Datum:
Soil Map Unit Name:	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of yea Are Vegetation, Soil, or Hydrology significantly of Are Vegetation, Soil, or Hydrology naturally prot SUMMARY OF FINDINGS – Attach site map showing	In? Yes No (If no, explain in Remarks.) disturbed? Are "Normal Circumstances" present? Yes No olematic? (If needed, explain any answers in Remarks.) sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>No</u>
Remarks: When drainage way, PEM.	Saline wetland.

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksh	eet.	
Tree Stratum (Plot size: MR)	% Cover	Species?	Status	Number of Dominant Spor		
1	10.00-0			That Are OBL, FACW, or	FAC	
2.			12.31	(excluding FAC-):	Philippine and a second	(A)
3	1.	-		Total Number of Dominan		
4			a seation	Species Across All Strata:		(B)
		= Total Cov	er	Dent (Dente ton)		
Sapling/Shrub Stratum (Plot size:)		Total Oot		That Are OBL, FACW, or	FAC:	(A/B)
1		ale -				
2			See. 1	Prevalence Index works	neet:	17 28 14
3		-	3.5	Total % Cover of:	Multiply by:	100
4				OBL species	x1=	<u> </u>
5.			a sa an fi	FACW species	x 2 =	
-1		= Total Cov	er	FAC species	x3=	Lesi (
Herb Stratum (Plot size:)			0 11	FACU species	x4=	_
1. Distichlis Spicator	35	7	Fach	UPL species	x 5 =	الله ا
2. Corex Sp.	20	1		Column Totals:	(A)	(B)
3		-		Prevalence Index =	B/A =	
4				Hydrophytic Vegetation	Indicators:	
5				1 - Rapid Test for Hvo	drophytic Vegetation	
6				2 - Dominance Test is	\$ >50%	
7				3 - Prevalence Index	$is < 3.0^{1}$	
8				4 - Morphological Ada	antations ¹ (Provide su	poorting
9				data in Remarks o	r on a separate sheet)
10				Problematic Hydrophy	ytic Vegetation ¹ (Expla	ain)'
	55	= Total Cov	ver	1		
Woody Vine Stratum (Plot size:)			C. C. C. MI	be present, unless disturb	nd wetland hydrology	must
1	-					
2	-	-		Hydrophytic	1	
% Para Cround in Harb Stratum 40%		= Total Cov	ver	Present? Yes	A No	
Remarks	and the second	- A. C. S.				· · · · · · · · · · · · · · · · · · ·
				and the second s		

SOIL

mpling Point: WS00 HA00 5 Sa

	ion: (Describe)	to the depth ne	eded to docur	nent the in	ndicator of	r confirm	the absence of indicators.)
Depth	Matrix		Redo	x Features	5		
(inches)	Color (moist)	C	olor (moist)	%	_Type ¹	Loc ²	Texture Remarks
0-6 1	JOYR 4/1	98	10YR 5/6	2	C	m	Sandy loan
6-12	INYRSII	95	INVR5/L	5	(m	Sault par las
-0-105 -	oncon		011-10				- sarry day lean
							V V
and the second second	Last 18						
	100		Section 1	1	11		· · · · · · · · · · · · · · · · · · ·
112435 B82124	with the same of				Jan H	-	
					1		
¹ Type: C=Conce	entration D=Den	letion RM=Red	Iced Matrix CS	S=Covered	or Coate	d Sand Gra	ains ² Location; PL=Pore Lining M=Matrix
Hydric Soil India	cators: (Applic	able to all LRR	. unless othe	wise note	ed.)		Indicators for Problematic Hydric Soils ³ :
Histosol (A1))		Sandy (Sleved Ma	trix (S4)		1 cm Muck (A9) (LRB L J)
Histic Epiped	don (A2)		Sandy B	Redox (S5))		Coast Prairie Redox (A16) (LRR F. G. H)
Black Histic ((A3)		Stripped	Matrix (S	6)		Dark Surface (S7) (LRR G)
Hydrogen Su	ulfide (A4)		Loamy	Mucky Min	eral (F1)		High Plains Depressions (F16)
Stratified Lay	yers (A5) (LRR F	=)	Loamy	Gleyed Ma	trix (F2)		(LRR H outside of MLRA 72 & 73)
1 cm Muck (/	A9) (LRR F, G, H	H)	X Deplete	d Matrix (F	-3)		Reduced Vertic (F18)
Depleted Bel	low Dark Surface	e (A11)	Redox I	Dark Surfa	ce (F6)		Red Parent Material (TF2)
Thick Dark S	Surface (A12)		Deplete	d Dark Su	rface (F7)		Very Shallow Dark Surface (TF12)
Sandy Muck	y Mineral (S1)		Redox I	Depression	ns (F8)		Other (Explain in Remarks)
2.5 cm Muck	y Peat or Peat (S2) (LRR G, H)	High Pla	ains Depre	ssions (F	6)	Indicators of hydrophytic vegetation and
5 сті миску	Pear of Pear (53	3) (LRR F)	(IVIL	RA 12 & 1	3 OF LRR	H)	wetland hydrology must be present,
Restrictive Lave	er (if present):		-		1		uniess distarbed of problematic.
Type:	in (in proceeding).					1.2.1.1	
Denth (inches	.).						Hydric Soil Present? Yes K No
Remarks:	·/·			10-1-1	-		Hydric Son Present Tres No
rtemanta.							
	142-15-2	Contraction of the		1.4.1.1.1	19.0		
YDROLOGY							
Wetland Hydrold	any Indiantera						
	ogy mulcators:					-	
Primary Indicator	rs (minimum of o	ne required; che	ck all that appl	v)			Secondary Indicators (minimum of two require
Primary Indicator	rs (minimum of o er (A1)	ne required; che	ck all that appl	y) (B11)			Secondary Indicators (minimum of two require
Primary Indicator	rs (minimum of o er (A1) Table (A2)	ne required; che	ck all that appl	y) (B11) vertebrates	s (B13)		Secondary Indicators (minimum of two require Surface Soil Cracks (B6) _X Sparsely Vegetated Concave Surface (B8
Primary Indicator Surface Wate High Water T	r <u>s (minimum of o</u> er (A1) Table (A2) A3)	ne required; che	ck all that appl X Salt Crust Aquatic In Hydrogen	v) (B11) vertebrates Sulfide Od	s (B13) lor (C1)		Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8 Drainage Patterns (B10)
Primary Indicator Surface Wate High Water T X Saturation (A Water Marks	rs (minimum of o er (A1) Table (A2) A3) s (B1)	ne required; che	ck all that appl	y) (B11) vertebrates Sulfide Od on Water T	s (B13) lor (C1) able (C2)		Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8 Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (0
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Remarks: