

Project Name and/or Number:

PART ONE: Applicant Information

If applicant is an entity (company, government entity, partnership, etc.), an authorized contact person must be identified. If the applicant is using an agent (consultant, lawyer, or other third party) and has authorized them to act on their behalf, the agent's contact information must also be provided.

Applicant/Landowner Name: Xcel Energy

Mailing Address: 414 Nicollet Mall, 404-6, Minneapolis, MN 55401

Phone: 612.330.6073

E-mail Address: ellen.l.heine@xcelenergy.com

Authorized Contact (do not complete if same as above):

Mailing Address:

Phone:

E-mail Address:

Agent Name: Merjent, Inc.

Mailing Address: 800 Washington Ave. N, Minneapolis, MN 55401

Phone: 612-354-4284

E-mail Address: jennkamm8@merjent.com

PART TWO: Site Location Information

County: Dakota City/Township: Burnsville

Parcel ID and/or Address:

Legal Description (Section, Township, Range): T27N R24W, Sec. 23 and 24

Lat/Long (decimal degrees): 44.807981, -93.246193

Attach a map showing the location of the site in relation to local streets, roads, highways. Attached in delineation report.

Approximate size of site (acres) or if a linear project, length (feet): 23 acres

If you know that your proposal will require an individual Permit from the U.S. Army Corps of Engineers, you must provide the names and addresses of all property owners adjacent to the project site. This information may be provided by attaching a list to your application or by using block 25 of the Application for Department of the Army permit which can be obtained at:

http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/engform 4345 2012oct.pdf

		Project Name and/or Number:						
		Project Name and/or Number.						
PART FIVE: Applicant	Sign	ature						
	Check here if you are requesting a <u>pre-application</u> consultation with the Corps and LGU based on the information you have provided. Regulatory entities will not initiate a formal application review if this box is checked.							
By signature below, I attest that the information in this application is compleauthority to undertake the work described herein.	ete and a	ccurate. I further attest that I possess the						
Signature:	Date:	November 3, 2017						
I hereby authorize Jennifer Kamm to act on my behalf as my agent in the request, supplemental information in suppo								

Project Name and/or Number:

Attachment A Request for Delineation Review, Wetland Type Determination, or Jurisdictional Determination

By submission of the enclosed wetland delineation report, I am requesting that the U.S. Army Corps of Engineers, St. Paul District (Corps) and/or the Wetland Conservation Act Local Government Unit (LGU) provide me with the following (check all that apply):

(Corps) and/or the Wetland Conservation Act Local Government Unit (LGU) provide me with the following (check all that apply):
Wetland Type Confirmation
Delineation Concurrence. Concurrence with a delineation is a written notification from the Corps and a decision from the LGU concurring, not concurring, or commenting on the boundaries of the aquatic resources delineated on the property. Delineation concurrences are generally valid for five years unless site conditions change. Under this request alone, the Corps will not address the jurisdictional status of the aquatic resources on the property, only the boundaries of the resources within the review area (including wetlands, tributaries, lakes, etc.).
Preliminary Jurisdictional Determination. A preliminary jurisdictional determination (PJD) is a non-binding written indication from the Corps that waters, including wetlands, identified on a parcel may be waters of the United States. For purposes of computation of impacts and compensatory mitigation requirements, a permit decision made on the basis of a PJD will treat all waters and wetlands in the review area as if they are jurisdictional waters of the U.S. PJDs are advisory in nature and may not be appealed.
Approved Jurisdictional Determination. An approved jurisdictional determination (AJD) is an official Corps determination that jurisdictional waters of the United States are either present or absent on the property. AJDs can generally be relied upon by the affected party for five years. An AJD may be appealed through the Corps administrative appeal process.
In order for the Corps and LGU to process your request, the wetland delineation must be prepared in accordance with the 1987 Corps of Engineers Wetland Delineation Manual, any approved Regional Supplements to the 1987 Manual, and the <i>Guidelines for Submitting Wetland Delineations in Minnesota</i> (2013). http://www.mvp.usace.army.mil/Missions/Regulatory/DelineationJDGuidance.aspx



November 3rd 2017

Ms. Ellen Heine Xcel Energy 414 Nicollet Mall, 404-6 Minneapolis, MN 55401

RE: Xcel Energy, Blackdog Pipeline Project, Dakota County, MN

Ms. Heine,

On behalf of Xcel Energy, Merjent, Inc. is pleased to provide the following wetland delineation report for the proposed Black Dog Pipeline Project (Project) located in Burnsville and Eagan, Minnesota, in Dakota County. Previous wetland and waterbody surveys were conducted for the Project in August 2016. An additional site investigation was conducted on October 26, 2017 to assist in identifying alternative pipeline route options for the Project. The survey area evaluated for this delineation includes an approximate 23-acre area located southeast of the Xcel Black Dog Generating Plant (Figure 1).

Methodology

Prior to conducting the field review, Merjent staff evaluated existing data including aerial photography, Dakota County Soil Survey, the Minnesota Department of Natural Resources 2011 update to the National Wetlands Inventory (NWI) map, and the Protected Water Inventory (PWI) map (Figures 2-4).

The presence/absence of wetlands was identified in the field using routine level 2 on-site delineation methods and criteria in accordance with the USACE Wetlands Delineation Manual (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Midwest Region Version 2.0* (USACE 2010). The Project is within the Midwest Land Resource Region M. Routine on-site delineation methods include characterization of vegetation, hydrology and soils at the site. The USACE National Wetlands Plant List was used to describe the taxonomy of plants surveyed and their wetland indicator status. Determination of wetland type is based on the classification system developed by Cowardin et al. (1979) and Shaw and Fredine, 1971. Waterbodies (i.e., ponds, creeks, streams, rivers) were identified by the presence of an ordinary high water mark (OHWM).

All wetland and waterbody boundaries were recorded using a sub-meter GPS unit (Trimble® GeoXT). No flagging was conducted in the field.

Results and Discussion

In total, six wetland areas were delineated (Figure 5). Field datasheets and photographs can be found in the attachments.

Wetland ID	Wetl	Acreage Within	
Welland ID	Cowardin et. al., 1979	Shaw and Fredine, 1971	the Survey Area
PEM-W1	PEM	Type 2	6.34
PEM-W2	PEM	Type 4	3.01
PSS-W1	PSS	Type 6	0.48
PFO-W1	PFO	Type 1	0.82
PFO-W2	PFO	Type 1	0.99
PFO-W3	PFO	Type 1	1.71

PEM-W1

PEM-W1 is a fresh (wet) meadow wetland. Dominant vegetation consisted of reed canary grass (*Phalaris arundinacea*), bluejoint grass (*Calamagrostis canadensis*), pale bulrush (*Scirpus pallidus*), woolgrass (*Scirpus cyperinus*) and sedges (*Carex spp.*). Soils within the wetland met the criteria for Thick Dark Surface (A12). Soils were saturated to the surface meeting hydrologic indicator A3.

PEM-W2

PEM-W2 is a deep marsh. Dominant vegetation consisted of lake sedge (*Carex lacustris*) and cattails (*Typha x glauca*). Standing water greater than six inches in depth. Soils were not able to be evaluated because of water depth but are assumed to by hydric based on SSURGO mapping.

PSS-W1

PSS-W1 is a shrub-carr wetland. Dominant vegetation consisted of sandbar willow (*Salix interior*), reed canary grass, and Virginia wild rye (*Elymus virginicus*). Soils within the wetland met the criteria for Thick Dark Surface (A12). Soils were saturated to the surface meeting hydrologic indicator A3.

PFO-W1 PFO-W2 and PFO-W3

PFO-W1, PFO-W2 and PFO-W3 are floodplain forest wetlands. Dominant vegetation consisted of cottonwood (*Populus deltoides*), trembling aspen (*Populus tremuloides*), green ash (*Fraxinus pennsylvanica*), boxelder (*Acer negundo*), American elm (*Ulmus americana*), and crack willow (*Salix fragilis*). Reed canary grass was dominant in the herbaceous layer. Soils within the wetland met the criteria for Redox Dark Surface (F6). Soils were saturated to the surface meeting hydrologic indicator A3.

Adjacent upland soils did not meet hydric soil criteria and were not saturated within 6 inches of the surface.

Respectfully submitted,

Jennifer Kamm

MN Certified Wetland Delineator (#1253)

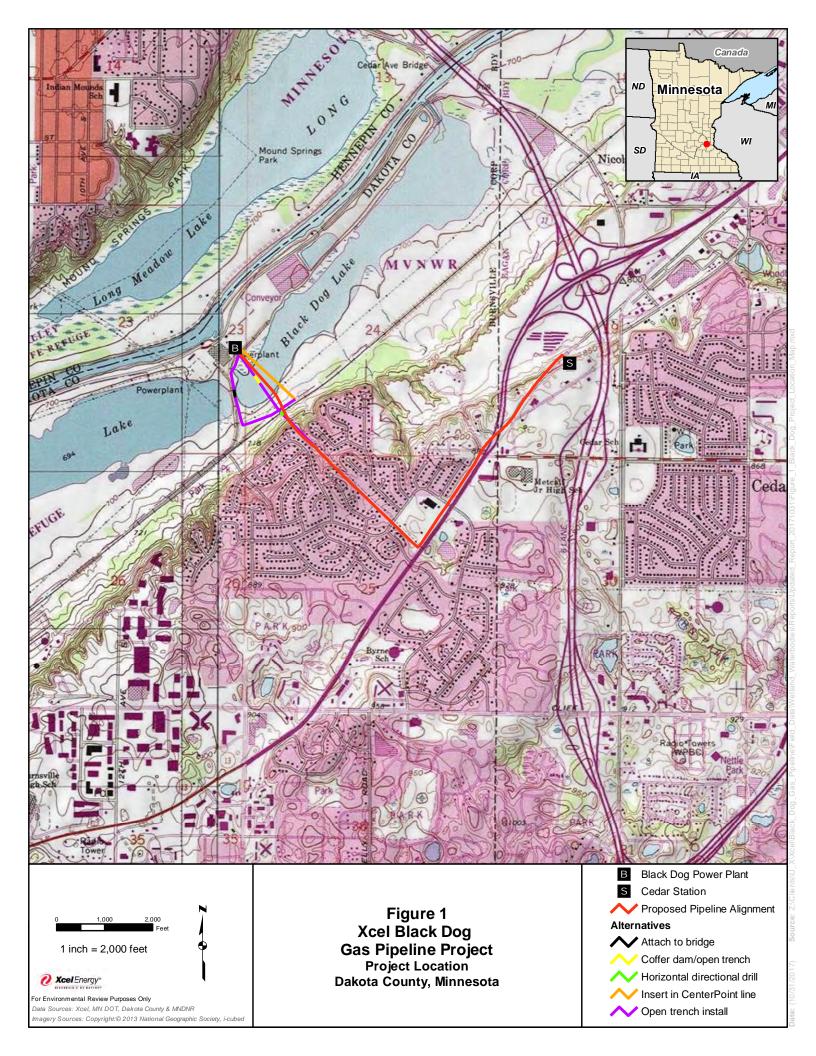
Merjent, Inc

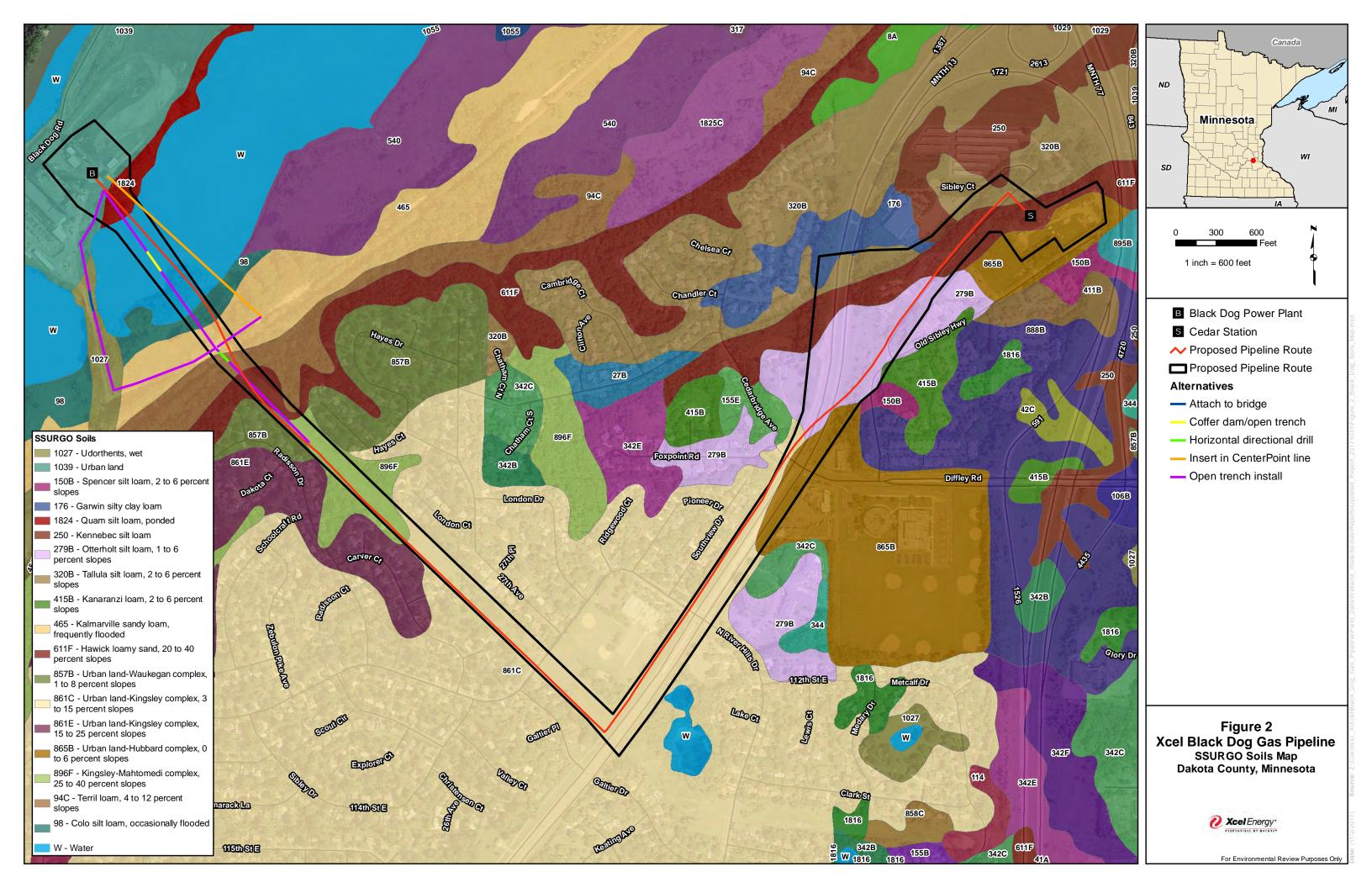
Enclosures: Figures

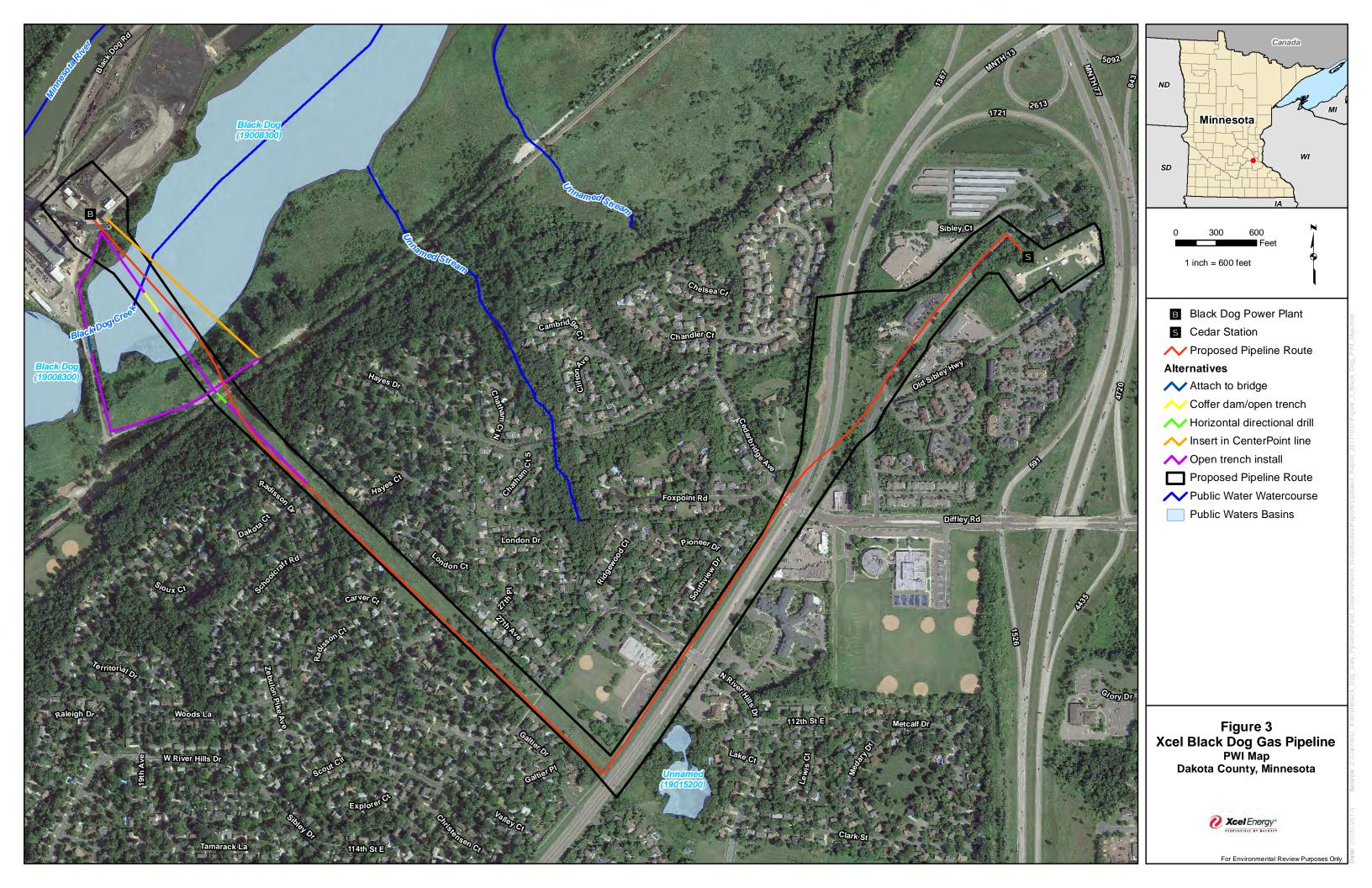
Data Sheets

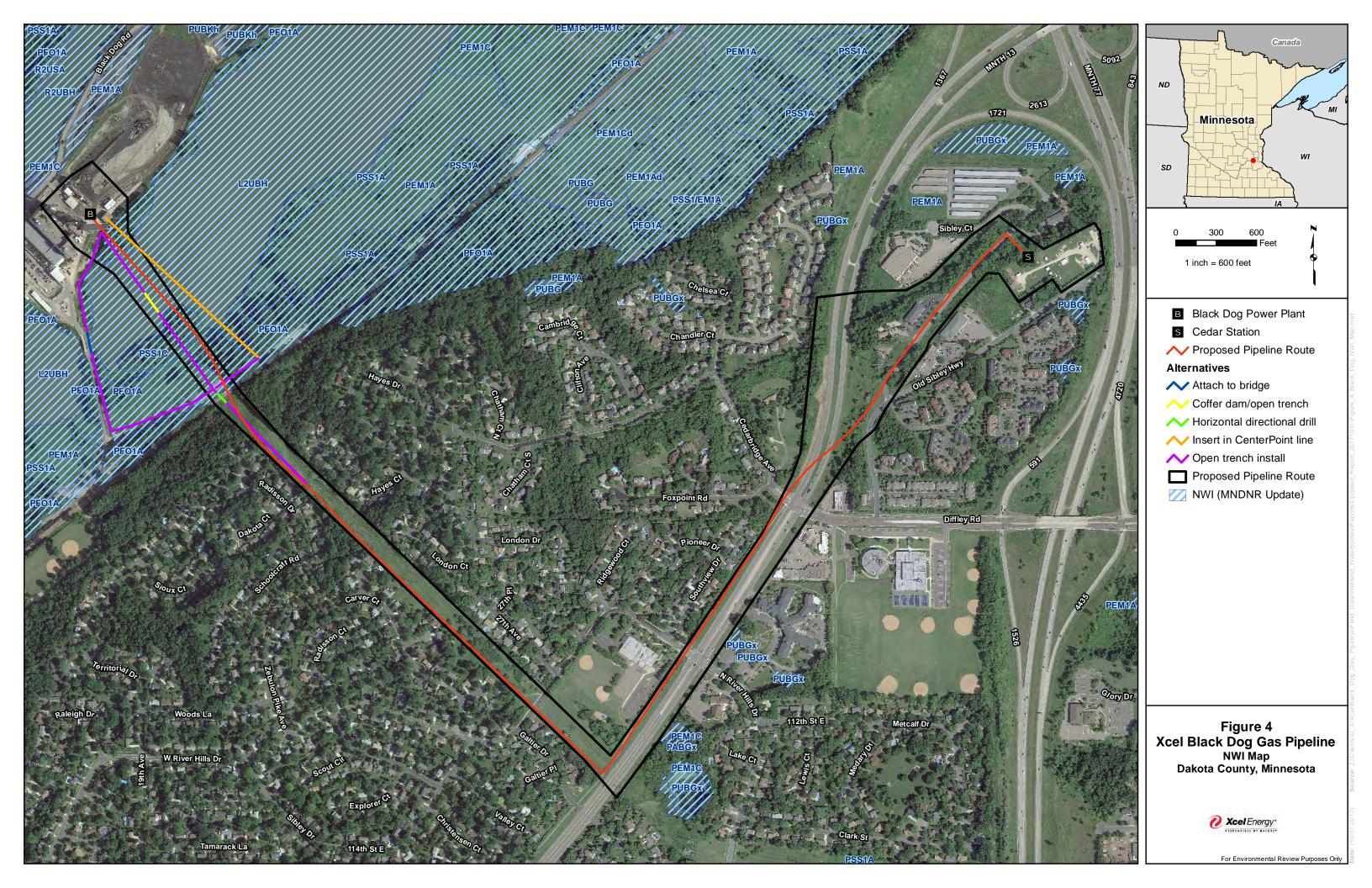
Photos

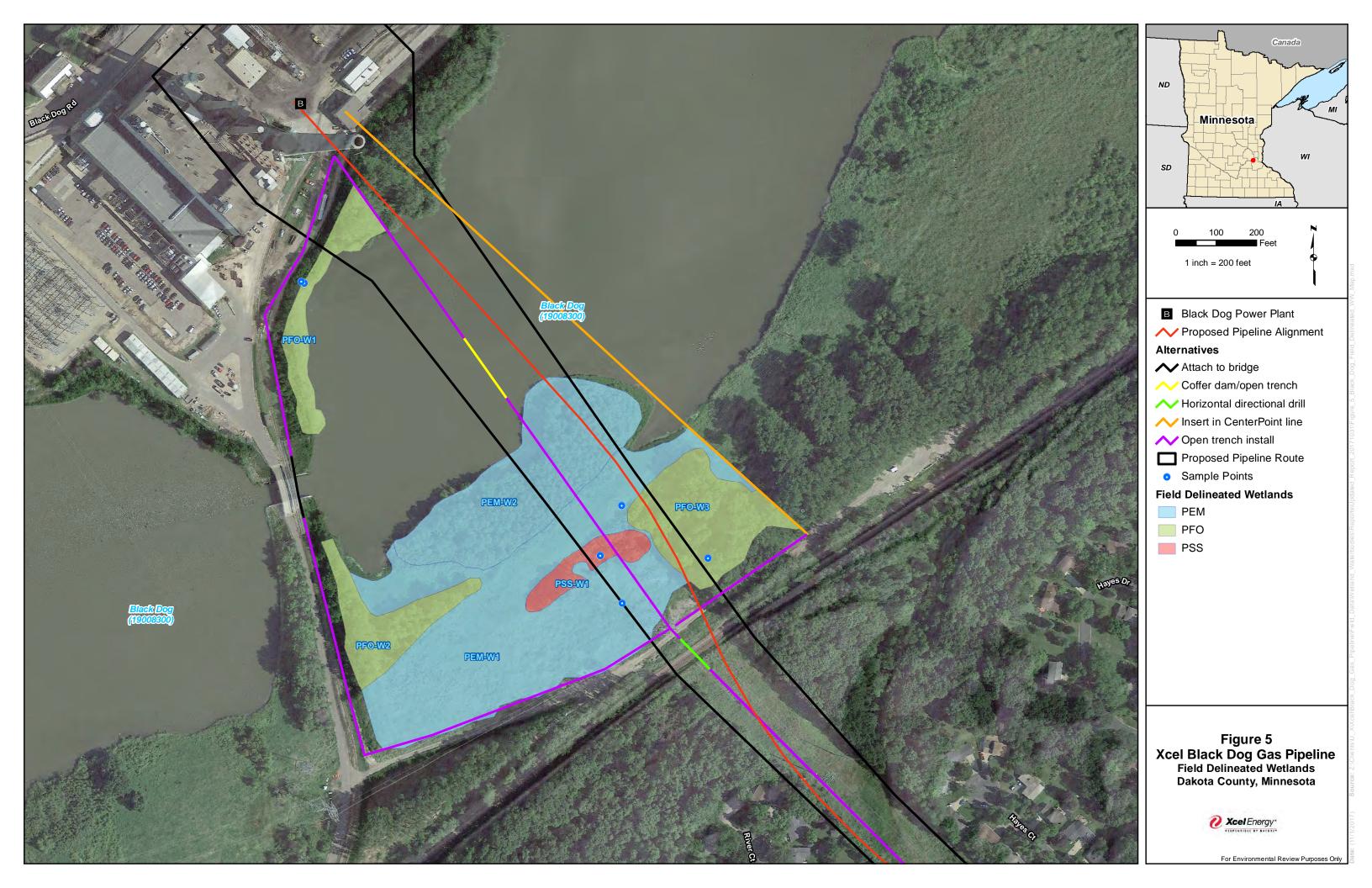












Project/Site Black Dog Natural Gas Pipeline Project	City/	County:	Dakota	Samplin	g Date:	10/26/2017
Applicant/Owner: Xcel Energy		State:	MN	Samplin	g Point:	PEM-W1
Investigator(s): JLK		Secti	on, Townshi	p, Range:	T27N R24	W Sec. 24
Landform (hillslope, terrace, etc.):	ace	Local r	elief (concav	ve, convex, none):		none
Slope (%): <1% Lat: 44.807958	3	Long:	-93.2449			NAD83
Soil Map Unit Name Kalmarville sandy loam, frequentle	ly flooded	· <u> </u>	/WI	Classification:	F	PEM
Are climatic/hydrologic conditions of the site typical for	r this time c	of the year?	Y (I	f no, explain in ren	narks)	
Are vegetation , soil , or hydrol	logy	significantly	y disturbed?	Are "nor	mal circums	tances"
	logy		oblematic?	7110 1101		resent? Yes
SUMMARY OF FINDINGS	·	, , ,		(If needed, expla	ain any answ	vers in remarks.)
Hydrophytic vegetation present? Y					·	•
Hydric soil present? Y	-	Is the s	ampled are	a within a wetland	1?	Υ
Indicators of wetland hydrology present?	-		tional wetlar			
	- congrete r	oport)				
Remarks: (Explain alternative procedures here or in a	separate it	eport.)				
VEGETATION Use scientific names of plant	ts.					
	Absolute	Dominan	Indicator	Dominance Tes	st Workshee	et
<u>Tree Stratum</u> (Plot size:)	% Cover	t Species	Staus	Number of Domin	ant Species	
1				that are OBL, FA0		3 (A)
2				Total Number		
3				Species Acros	ss all Strata:	3 (B)
4				Percent of Domin	•	100 000/ (A/D)
5	0	= Total Cove		that are OBL, FAC	JW, or FAC:	100.00% (A/B)
Sapling/Shrub stratur (Plot size:	\	= rotal Cove	ſ	Prevalence Ind	av Warksha	not .
1 Rhamnus cathartica) 5	Υ	FAC	Total % Cover o		et
2				OBL species	 65 x 1 :	= 65
3				FACW species	35 x 2	
4				FAC species	5 x 3	= 15
5				FACU species	0 x 4	
	5	= Total Cove	r	UPL species	0 x 5	
Herb stratum (Plot size:))			Column totals	105 (A)	150(B)
1 Calamagrostis canadensis	30	<u> </u>	OBL	Prevalence Inde	x = B/A =	1.43
2 Phalaris arundinacea	30	Y	FACW			
3 Carex typhina 4 Scirpus pallidus	15	. <u>N</u>	OBL OBL	Hydrophytic Ve	_	αιcators: ic vegetation
5 Scirpus cyperinus	10	- <u>N</u>	OBL	X Dominance		•
6 Verbena hastata	5		FACW	X Prevalence		
7		· ——		Morphogical		
8				supporting of		
9				separate sh		
10				Problematic	hydrophytic	vegetation*
	100	= Total Cove	r	(explain)		
Woody vine stratum (Plot size:))					and hydrology must be or problematic
2				Hydrophyti		or problematic
	0	= Total Cove		vegetation		
	-		•	present?	Y	
Remarks: (Include photo numbers here or on a separa	ate sheet)					

SOIL Sampling Point: PEM-W1

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the	e absence	of indicators.)		
Depth Matrix Redox Features								•			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture		Remarks		
0-38	N 2/0	100					Clay loam		See below.		
				†			- ,				
				 							
				 							
				<u> </u>							
*Tupo: C = (Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix										
	il Indicators:	= Debieri	Off, Kivi – Neuuo	30 Maui	(, IVIO – n	/laskeu c			atic Hydric Soils:		
_	isol (A1)		Sar	ndy Gleye	ad Matrix	(21)			(A16) (LRR K, L, R)		
	isoi (A1) ic Epipedon (A2)			ndy Gleye ndy Redo		(34)		rface (S7) (
	ic Epipedon (AZ) ck Histic (A3)			pped Ma	. ,				asses (F12) (LRR K, L, R)		
	rogen Sulfide (A	1\		amy Mucl	. ,			_	Surface (TF12)		
	itified Layers (A5)	•		amy Gley	-			explain in rei			
	n Muck (A10)	,		oleted Ma				χριαιιτιττοι	ilaiks)		
	leted Below Dark	Surface		dox Dark	, ,						
	ck Dark Surface (· · ·	pleted Da		. ,	*Indicator	e of hydroni	nytic vegetation and weltand		
	dy Mucky Minera	•		dox Depr					resent, unless disturbed or		
	n Mucky Peat or l			лох Ворг	00010110	(10)	Hydrolog		oblematic		
						ı					
	Layer (if observe	ed):					l ludria ani	:I	V		
Type:	1.				-		Hyaric soi	I present?	<u> </u>		
Depth (inche	es):				-						
Remarks:						•					
Assumed	to meet thick	dark su	ırface. Soils ap	pear to	match	Colo so	il series which	has deple	tion beginning		
at 102 to	117 centimete	ers.									
HYDROLO											
_	drology Indicate										
Primary Indi	cators (minimum	of one is	required; check				<u>Secor</u>		tors (minimum of two required		
	Water (A1)			Aquatic	Fauna (B	13)		Surface Soi	l Cracks (B6)		
	ter Table (A2)				uatic Plar				atterns (B10)		
X Saturation	· ,			_ , .		Odor (C	·		Water Table (C2)		
	arks (B1)				d Rhizosp	heres on		Crayfish Bu			
	t Deposits (B2)			(C3)					/isible on Aerial Imagery (C9)		
	osits (B3) it or Crust (B4)			_		uced Iron			Stressed Plants (D1)		
	osits (B5)			(C6)	ron Real	iction in i		FAC-Neutra	Position (D2)		
	on Visible on Aeria	ıl İmanen	(R7)	_ ` ′	ck Surfac	o (C7)		' AC-Neulla	ii Test (D3)		
	Vegetated Conca		· · · ·	_	or Well Da						
	tained Leaves (B9			_		Remarks)		Υ		
Field Obser	•	,			жрішін ін	rtornarito	,		·		
Surface wat		Yes	No		Depth (i	nches).					
Water table	•	Yes	No		Depth (i			Indica	ators of wetland		
Saturation p		Yes	X No		Depth (i		0		ology present?		
	pillary fringe)				- ' `	,		•			
		am daud	e monitoring wel	l aerial r	hotos n	revious i	nspections), if ava	ailable.			
20001120100	orded data (etree	an gaag	s, morntoring wor	i, donai p	люкоо, р		1000010110), 11 410	andbio.			
Remarks:				-							

Project/Site Black Dog Natural Gas Pipeline Project	City/County:	Dakota	Sampling Date:	10/26/2017
Applicant/Owner: Xcel Energy	State:	MN	Sampling Point:	PEM-W1
Investigator(s): JLK	Sect	tion, Townshi	p, Range: T27N F	R24W Sec. 24
Landform (hillslope, terrace, etc.): Terrace	Local	relief (concav	/e, convex, none):	none
Slope (%): 0 - 5% Lat: 44.808182	Long:	-93.2467		NAD83
Soil Map Unit Name Colo silt loam, occasionally flooded		\WI (Classification:	PEM
Are climatic/hydrologic conditions of the site typical for this	time of the year?	Y (I	f no, explain in remarks)	
Are vegetation , soil , or hydrology	-	ly disturbed?	Are "normal circu	ımstances"
Are vegetation , soil , or hydrology		roblematic?	7 To Horman Groc	present? Yes
SUMMARY OF FINDINGS			(If needed, explain any a	nswers in remarks.)
Hydrophytic vegetation present? Y				· · · · · · · · · · · · · · · · · · ·
Hydric soil present?	Is the	sampled are	a within a wetland?	Υ
Indicators of wetland hydrology present?		• ptional wetlar	_	
		•		
Remarks: (Explain alternative procedures here or in a sepa	arate report.)			
VEGETATION Use scientific names of plants.				
	solute Dominan	Indicator	Dominance Test Works	
	Cover t Species	Staus	Number of Dominant Spec	
1			that are OBL, FACW, or FA	``
3			Total Number of Domini Species Across all Stra	
4			Percent of Dominant Spec	``
5			that are OBL, FACW, or FA	
	0 = Total Cove	er		` ′
Sapling/Shrub stratum (Plot size:)			Prevalence Index Work	sheet
1			Total % Cover of:	
2			OBL species 100	
3			· —	x 2 = 0
4			· —	x 3 = 0 x 4 = 0
	0 = Total Cove			x 5 = 0
Herb stratum (Plot size:	- rotar cove	J1		(A) 100 (B)
	100 Y	OBL	Prevalence Index = B/A =	
2			Trevalence index - Birt	1.00
3			Hydrophytic Vegetation	n Indicators:
4			Rapid test for hydrop	
5			X Dominance test is >5	50%
6			X Prevalence index is	≤3.0*
7			Morphogical adaptati	
8			supporting data in Re	emarks or on a
9			separate sheet)	
10	100 = Total Cove		Problematic hydroph	ytic vegetation*
Woody vine stratum (Plot size:)	- 10tal Cove	3 1	(explain)	
1			*Indicators of hydric soil and present, unless distur	
2			Hydrophytic	bod of problemate
	0 = Total Cove	er	vegetation	
			present? X	· ·
Remarks: (Include photo numbers here or on a separate s	heet)			

SOIL Sampling Point: PEM-W1

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm th	e absence	of indicators.)		
Depth Matrix Redox Features								•			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture		Remarks		
0-38	N 2/0	100					Clay loam		See below.		
				†	 		- ,				
				 	 						
				 	<u> </u>						
				<u> </u>							
*Tupo: C = (Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix										
	oncentration, D:	= Debieri	ON, KIVI - NEULUG	30 Maui	t, IVIO – IV	/laskeu c			natic Hydric Soils:		
_	isol (A1)		Sar	adv Clevi	ed Matrix	(21)			ox (A16) (LRR K, L, R)		
	isoi (A1) ic Epipedon (A2)			ndy Gleye ndy Redo		(34)			(LRR K, L)		
	ic Epipedon (A2) ck Histic (A3)			pped Ma	. ,				lasses (F12) (LRR K, L, R)		
	lrogen Sulfide (A4	1)			ky Minera			-	Surface (TF12)		
	atified Layers (A5)	,		-	red Matrix			explain in re			
	n Muck (A10)	,			atrix (F3)			ελριαιτι τι τ	aniaika)		
	oleted Below Dark	Surface			Surface						
	ck Dark Surface (` '		ark Surfac	. ,	*Indicator	re of hydror	phytic vegetation and weltand		
	idy Mucky Minera	•			essions (present, unless disturbed or		
	n Mucky Peat or	. ,			,	(. 5)	ny ar orog		roblematic		
			<u>, </u>			ı		'			
	Layer (if observe	ea):			İ		Hudric soi	ii procent?	o v		
Type:	\-				-		Hydric soi	II present:	· <u> </u>		
Depth (inche	es):				-						
Remarks:											
Assumed	d to meet thick	dark su	ırface. Soils ap	pear to	match	Colo so	il series which	has depl	etion beginning		
at 102 to	117 centimete	ers.							-		
HYDROLO											
Wetland Hy	drology Indicate	ors:									
Primary Indi	cators (minimum	of one is	required; check				<u>Secor</u>		ators (minimum of two required		
	Water (A1)			Aquatic	Fauna (B	13)		Surface So	oil Cracks (B6)		
	ter Table (A2)		<u>-</u>	_	uatic Plar			_	Patterns (B10)		
X Saturation	, ,				en Sulfide	•	·	_	n Water Table (C2)		
	arks (B1)				d Rhizosp	heres on	Living Roots		urrows (C8)		
	nt Deposits (B2)			(C3)	- f Dod	مرماله	(24)		Visible on Aerial Imagery (C9)		
	oosits (B3) it or Crust (B4)			_	e of Redu			_	Stressed Plants (D1) ic Position (D2)		
	osits (B5)			(C6)	ron Keau	iction in i		•	ral Test (D5)		
	osแร (ฮอ) on Visible on Aeria	ıl İmagen	. (R7)	_ ` ′	ck Surfac	o (C7)		FAC-INCUII	ai Test (Do)		
	Vegetated Conca		· · · ·	_	or Well Da	. ,					
	tained Leaves (B9			_ ~	Explain in	, ,)				
Field Obser	•					110111	,	ı			
Surface wat		Yes	No		Depth (i	nches).					
Water table	•	Yes	No		Depth (i			Indic	cators of wetland		
Saturation p		Yes	X No		Depth (i		0		rology present?		
	pillary fringe)			-	(.	,.					
		am dalide	e monitoring wel	L aerial r	hotos n	revious i	nspections), if ava	ailable [.]			
December 100	orded data (otree	iii gaagi	s, morntoning wor	i, donai p	///otoo, pi	1011000 11	nopodiono), n ave	инивно.			
Remarks:											

Project/Site Black Dog Natural Gas Pipeline Project	City/	County:	Dakota	Sampling Date: 10/26/2017
Applicant/Owner: Xcel Energy		State:	MN	Sampling Point: PFO-W1 and PFO-W2
Investigator(s): JLK		Section	on, Townshi	o, Range: T27N R24W Sec. 23, 24
Landform (hillslope, terrace, etc.):	ace	Local r	elief (concav	re, convex, none): CL (concave linear)
Slope (%): 25 - 35% Lat: 44.808182	<u>)</u>	Long:	-93.2467	13 Datum: NAD83
Soil Map Unit Name Udorthents, wet			VWI (Classification: PFO
Are climatic/hydrologic conditions of the site typical fo	r this time c	of the year?	Y (I	f no, explain in remarks)
Are vegetation , soil , or hydro		-		Are "normal circumstances"
	logy			present? Yes
SUMMARY OF FINDINGS	<u> </u>	,,		(If needed, explain any answers in remarks.)
Hydrophytic vegetation present? Y				, , , , , , , , , , , , , , , , , , , ,
Hydric soil present?	-	Is the s	ampled are	a within a wetland?
Indicators of wetland hydrology present?	-		tional wetlar	
Remarks: (Explain alternative procedures here or in a	separate re	eport.)		
VEGETATION Use scientific names of plan	ts.			
	Absolute	Dominan	Indicator	Dominance Test Worksheet
Tree Stratum (Plot size:)	% Cover	t Species	Staus	Number of Dominant Species
1 Acer negundo	30	<u>Y</u>	FAC	that are OBL, FACW, or FAC: 6 (A)
2 Ulmus americana	10	<u>Y</u> Y	FACW	Total Number of Dominant
3 Fraxinus pennsylvanica		<u> </u>	FACW	Species Across all Strata: 6 (B)
5				Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)
	50	= Total Cove		(A/B)
Sapling/Shrub stratum (Plot size:)	rotal Corol	•	Prevalence Index Worksheet
1 Fraxinus pennsylvanica	20	Υ	FACW	Total % Cover of:
2 Rhamnus cathartica	20	Y	FAC	OBL species 0 x 1 = 0
3 Morus alba	5	N	FAC	FACW species 50 x 2 = 100
4				FAC species <u>55</u> x 3 = <u>165</u>
5	45	T. 1.10		FACU species 0 x 4 = 0
Howh strations (District)	<u>45</u>	= Total Cover	r	UPL species $0 \times 5 = 0$
Herb stratum (Plot size:)		E 4 0) 4/	Column totals 105 (A) 265 (B)
1 Pilea pumila	10	<u> </u>	FACW	Prevalence Index = B/A = 2.52
2				Hydrophytic Vegetation Indicators:
4				Rapid test for hydrophytic vegetation
5				X Dominance test is >50%
6				X Prevalence index is ≤3.0*
7				—— Morphogical adaptations* (provide
8				supporting data in Remarks or on a
9				separate sheet)
10				Problematic hydrophytic vegetation*
	10	= Total Cover	r	(explain)
Woody vine stratum (Plot size:)			*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
2				Hydrophytic
	0	= Total Cover	r	vegetation present? X
Remarks: (Include photo numbers here or on a separ	ate sheet)			
Tromano. (molado prioto namboro nero or on a separ	ato oncoty			

SOIL Sampling Point: O-W1 and PFO-\

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	<u>Matrix</u>		Red	lox Feat					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-4	10YR 3/2	100					Silt Loam		
4 - 12	10YR 3/2	60	7.5 YR 5/8	30	С	М	Silt Loam		
			10 YR 5.1	10	С	М			
			10 11(0.1	10		141			
*Type: C = C	Concentration, D :	= Depleti	on, RM = Reduce	ed Matrix	, MS = N	/lasked S	and Grains. **Loc	ation: PL = Pore Lining, M = Matrix	
	il Indicators:	•	<u> </u>					oblematic Hydric Soils:	
Hist	isol (A1)		San	dy Gleye	ed Matrix	(S4)	Coast Prairie	Redox (A16) (LRR K, L, R)	
Hist	ic Epipedon (A2)		San	dy Redo	x (S5)			(S7) (LRR K, L)	
Blad	ck Histic (A3)		Strip	oped Ma	trix (S6)		_	ese Masses (F12) (LRR K, L, R)	
	rogen Sulfide (A4	,		-	ky Minera			Dark Surface (TF12)	
	tified Layers (A5))			ed Matrix		Other (explain	n in remarks)	
	n Muck (A10)				atrix (F3)				
:	leted Below Dark		· · ·			. ,			
	ck Dark Surface (•			ark Surfa	. ,		ydrophytic vegetation and weltand	
	dy Mucky Minera	. ,		ox Depr	essions ((F8)	hydrology mu	st be present, unless disturbed or	
5 cr	n Mucky Peat or	Peat (S3)					problematic	
Restrictive	Layer (if observe	ed):							
Туре:					-		Hydric soil pre	sent? Y	
Depth (inche	es):								
Remarks:									
HYDROLO	OGY								
Wetland Hy	drology Indicate	rs:							
Primary Indi	cators (minimum	of one is	required; check a	all that a	pply)		Secondary	Indicators (minimum of two required)	
Surface	Water (A1)			Aquatic	Fauna (B	13)	Surfa	ce Soil Cracks (B6)	
High Wa	ter Table (A2)			True Aq	uatic Plar	nts (B14)	Drain	age Patterns (B10)	
Saturation				-		Odor (C1		Season Water Table (C2)	
X Water M	` '				l Rhizosp	heres on	,	ish Burrows (C8)	
	t Deposits (B2)			(C3)				ration Visible on Aerial Imagery (C9)	
X Drift Dep						uced Iron	· ·	ed or Stressed Plants (D1)	
	t or Crust (B4)				ron Redu	iction in 1		norphic Position (D2) Neutral Test (D5)	
	osits (B5) on Visible on Aeria	l Imagen	(B7)	(C6)	ck Surfac	o (C7)	<u> </u>	Neutral Test (D5)	
	Vegetated Conca				or Well Da				
	tained Leaves (B9			_		Remarks)		
Field Obser	•	,		- (<u>'</u>		<u>'</u>		
Surface water		Yes	No	Χ	Depth (i	nches):			
Water table	•	Yes	No	X	Depth (i			Indicators of wetland	
Saturation p		Yes	No	Х	Depth (i		0	hydrology present? Y	
	pillary fringe)					,			
Describe rec	orded data (strea	am gaug	e, monitoring well	, aerial p	hotos, p	revious ir	nspections), if available	e:	
	`	_ 0	_	•	•		• *		
Remarks:									

Project/Site Black Dog Natural Gas Pipeline Project	City/	County:	Dakota	Samplin	g Date:	10/26/2017
Applicant/Owner: Xcel Energy		State:	MN	Sampling	g Point:	PFO-u1
Investigator(s): JLK		Secti	on, Townshi	p, Range:	T27N R24	W Sec. 23
Landform (hillslope, terrace, etc.):	ace	Local r	elief (concav	ve, convex, none):	CL (co	oncave linear)
Slope (%): 35% Lat: 44.809969)	Long:	-93.2488	34 Datum:		NAD83
Soil Map Unit Name Urban land			/WI	Classification:	U	pland
Are climatic/hydrologic conditions of the site typical fo	r this time c	of the year?	Y (I	f no, explain in ren	narks)	
Are vegetation , soil , or hydrol	logy	significantly	/ disturbed?	Are "nor	mal circums	tances"
	logy		oblematic?	7110 1101		resent? Yes
SUMMARY OF FINDINGS	·	, ,		(If needed, expla	ain any ansv	ers in remarks.)
Hydrophytic vegetation present? Y					<u> </u>	•
Hydric soil present? N	-	Is the s	ampled are	a within a wetland	1?	N
Indicators of wetland hydrology present?	_		tional wetlar			
	- congrete r	oport \				<u> </u>
Remarks: (Explain alternative procedures here or in a	separate re	eport.)				
VECETATION III : 100	 					
VEGETATION Use scientific names of plan				Daminana Ta	4 \4\	.4
Tree Stratum (Plot size:)	Absolute % Cover	Dominan t Species	Indicator Staus	Dominance Tes		et .
1 Acer negundo	30	Y	FAC	Number of Domin that are OBL, FAC		5 (A)
2 Ulmus americana	10	<u> </u>	FACW	Total Number		(/,/
3 Fraxinus pennsylvanica	10	<u>Y</u>	FACW	Species Acros		6 (B)
4				Percent of Domin		. ,
5				that are OBL, FAC	•	83.33% (A/B)
	50	= Total Cove	r			
Sapling/Shrub stratum (Plot size:)			Prevalence Inde		et
1 Fraxinus pennsylvanica	20	<u> </u>	FACW	Total % Cover o		•
2 Rhamnus cathartica	20	<u> </u>	FAC	OBL species FACW species	0 x 1 40 x 2	
3				FAC species	50 x 3	
5				FACU species	10 x 4	
	40	= Total Cove	r	UPL species	0 x 5	
Herb stratum (Plot size:)			Column totals	100 (A)	270 (B)
1 Arctium minus	10	Υ	FACU	Prevalence Inde	x = B/A =	2.70
2						
3				Hydrophytic Ve	getation In	dicators:
4				· ·		ic vegetation
5				X Dominance		
6				X Prevalence		
8				Morphogical	•	**
9				supporting d separate she		irks or on a
10				Problematic	-	vegetation*
	10	= Total Cove		(explain)	ny aropny ao	vogotation
Woody vine stratum (Plot size:)			<u> </u>	ic soil and wetl	and hydrology must be
1						or problematic
2				Hydrophyti	С	
	0	= Total Cove	r	vegetation present?	Υ	
				present		
Remarks: (Include photo numbers here or on a separa	ate sheet)					

SOIL Sampling Point: PFO-u1

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the abser	ice of indicators.)			
Depth	Matrix			lox Feat							
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks			
0-26	10YR 3/2	100					Silt Loam				
	-						·				
*Tupo: C = (Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix										
		= Debleti	on, KIVI = Keduce	ed Matrix	(, IVIS = IV	/laskeu c		on: PL = Pore Lining, M = Matrix lematic Hydric Soils:			
_	oil Indicators:		San	dy Cloye	- d Matrix	(01)		edox (A16) (LRR K, L, R)			
	tisol (A1)			dy Gleye dy Redo	ed Matrix	(34)	Dark Surface (S				
	tic Epipedon (A2) ck Histic (A3)			-	trix (S6)			e Masses (F12) (LRR K, L, R)			
	ck riisiic (A3) Irogen Sulfide (A4	4 \		•	ιτιχ (So) ky Minera	-! /⊑1)		ark Surface (TF12)			
	atified Layers (A5	•		-	ky iviiriera ed Matrix		Other (explain i	, ,			
	n Muck (A10))			ed Matrix atrix (F3)		— Other (explain i	Helliains)			
	oleted Below Dark	Curface			Surface						
	ck Dark Surface (· · ·		ark Surfa	. ,	*Indicators of hyd	rophytic vegetation and weltand			
	ndy Mucky Minera	•			essions (. ,		be present, unless disturbed or			
	n Mucky Peat or	` '		юх Ворг	00010110 ((10)	nydrology must	problematic			
	-	`	/			ı					
	Layer (if observe	ed):					Undela soil proce	-10 N			
Type:	. .				- 1		Hydric soil prese	nt? <u>N</u>			
Depth (inche	es):										
Remarks:											
HYDROLO											
Wetland Hy	drology Indicate	ors:									
Primary Indi	cators (minimum	of one is	required; check				Secondary In	<u>dicators (minimum of two required)</u>			
Surface	Water (A1)				Fauna (B		Surface	Soil Cracks (B6)			
	iter Table (A2)			•	uatic Plar	, ,		e Patterns (B10)			
Saturation						Odor (C	· ·	ason Water Table (C2)			
	arks (B1)				l Rhizosp	heres on		Burrows (C8)			
	nt Deposits (B2)			(C3)				on Visible on Aerial Imagery (C9)			
	posits (B3)			i)		uced Iron		or Stressed Plants (D1)			
	at or Crust (B4)				ron Redu	iction in I		rphic Position (D2)			
	oosits (B5) on Visible on Aeria	l Imagan	, (B7)	(C6)	ck Surfac	o (C7)	X FAC-N	eutral Test (D5)			
	Vegetated Conca				or Well Da	. ,					
	tained Leaves (B9			_		Remarks)				
Field Obser	`	,	_	Other (E	.хріант ін	TCHIANG	<i>'</i>				
Surface wat		Yes	No	V	Depth (i	nches):					
Water table	•	Yes	No	X	Depth (i		In	dicators of wetland			
Saturation p		Yes	No	X	Depth (i	,		ydrology present?			
	pillary fringe)	100			Bopui (i	1101100).	 '	yarology procent:			
		m dalid	nonitoring well	aerial n	hotos n	revious i	nspections), if available:				
Describe rec	Corded data (Stree	airi gaugi	s, monitoring wen	, acriai p	лююз, р	i evious ii	ispections), il available.				
Remarks:											

Project/Site Black Dog Natural Gas Pipeline Project	City/	County:	Dakota	Sampling Date:	10/26/2017
Applicant/Owner: Xcel Energy		State:	MN		
Investigator(s): JLK		Section	on, Townshi	p, Range: T27N	R24W Sec. 23
Landform (hillslope, terrace, etc.):	ace	Local r	elief (concav	ve, convex, none):	concave
Slope (%): <1% Lat: 44.807958	3	Long:	-93.2449	· -	NAD83
Soil Map Unit Name Kalmarville sandy loam, frequent	ly flooded	<u> </u>		Classification:	PFO
Are climatic/hydrologic conditions of the site typical fo		of the year?		f no, explain in remarks)	
Are vegetation , soil , or hydrol		=	disturbed?	Are "normal circ	cumetancee"
Are vegetation , soil , or hydrol		naturally pr		Ale normal circ	present? Yes
SUMMARY OF FINDINGS				(If needed, explain any	· —
Hydrophytic vegetation present? Y				(
Hydric soil present?	-	Is the s	ampled area	a within a wetland?	Υ
Indicators of wetland hydrology present?	-		tional wetlar		
	<u>-</u>		tional wettar		
Remarks: (Explain alternative procedures here or in a	separate re	eport.)			
VEGETATION Use scientific names of plan	ts.				
	Absolute	Dominan	Indicator	Dominance Test Work	sheet
Tree Stratum (Plot size:)	% Cover	t Species	Staus	Number of Dominant Spe	
1 Populus deltoides	25	<u>Y</u>	FAC	that are OBL, FACW, or F	FAC: 5 (A)
2 Populus tremuloides	25	<u>Y</u>	FAC	Total Number of Domi	
3 Fraxinus pennsylvanica	15	N	FACW	Species Across all St	
4 Ulmus americana	10	N	FACW	Percent of Dominant Spe	
5 Salix fragilis	5	= Total Cove	FAC	that are OBL, FACW, or F	AC: 100.00% (A/B)
Sapling/Shrub stratur (Plot size:	00	- Total Cove		Prevalence Index Wor	kshaat
1 Rhamnus cathartica	, 30	Y	FAC	Total % Cover of:	N311661
2 Fraxinus pennsylvanica	10	<u> </u>	FACW	OBL species 0	x 1 = 0
3			17.011	·	x 2 = 132
4				FAC species 96	x 3 = 288
5				FACU species 12	x 4 = 48
	40	= Total Cove		UPL species 0	x 5 = 0
Herb stratum (Plot size:)				Column totals 174	(A) 468 (B)
1 Phalaris arundinacea	30	Υ	FACW	Prevalence Index = B/A	= 2.69
2 Alliaria petiolata	10	N	FAC		
3 Arctium minus	10	N	FACU	Hydrophytic Vegetation	
4 Cirsium arvense	1	<u>N</u>	FACU	Rapid test for hydro	
5 Urtica dioica	1	<u>N</u>	FACW	X Dominance test is >	
6 Menispermum canadense		N	FAC	X Prevalence index is	
7 Fragaria virginiana	1	<u>N</u>	FACU	Morphogical adapta	
8				supporting data in F separate sheet)	Remarks or on a
10				Problematic hydrop	hytic vogotation*
	54	= Total Cove		(explain)	nylic vegetation
Woody vine stratum (Plot size:	,——	Total Gove		<u> </u>	
1				-	d wetland hydrology must be urbed or problematic
2				Hydrophytic	<u> </u>
	0	= Total Cove		vegetation	
				present?	<u>Y</u>
Remarks: (Include photo numbers here or on a separa	ate sheet)			•	

SOIL Sampling Point: PFO-W3

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the absen	ce of indicators.)	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features									
(Inches)			Color (moist)				Texture	Remarks	
0-23	10YR 2/1	75	7.5 YR 4/4	15 C		М	Silty clay loam		
	-		10 YR 5/1	10			, ,		
			10 113 0/ 1	10		M			
					<u></u>				
*Type: C = (Concentration D :	– Denleti	ion, RM = Reduce	d Matrix	MS = N	Assked S	I Sand Grains **Location	on: PL = Pore Lining, M = Matrix	
	oil Indicators:	- Debieri	OII, INIVI - INGULO	d Mauia	i, IVIO – n	/laskeu c		lematic Hydric Soils:	
_	tisol (A1)		San	dy Gleve	ed Matrix	(54)		edox (A16) (LRR K, L, R)	
	tic Epipedon (A2)			idy Gleye idy Redo		(04)	Dark Surface (S		
	ck Histic (A3)			-	trix (S6)			• Masses (F12) (LRR K, L, R)	
	lrogen Sulfide (A	1)		•	ky Minera			ark Surface (TF12)	
`	atified Layers (A5	•		-	ed Matrix		Other (explain in	* *	
	n Muck (A10)	,			atrix (F3)			Tellano,	
	oleted Below Dark	Surface			Surface				
	ck Dark Surface (` '		ark Surfa	. ,	*Indicators of hyd	rophytic vegetation and weltand	
	ndy Mucky Minera	,			essions			pe present, unless disturbed or	
	m Mucky Peat or	` '				(- /	,	problematic	
	Layer (if observe		<u>, </u>			ı		<u> </u>	
Type:	Layer (II Observ	euj.					Hydric soil presei	nt? Y	
Depth (inche	7c).				•		Hyuno son proson		
	=5). 				-				
Remarks:									
::\\DDQI (201/								
HYDROLO									
-	drology Indicate								
		of one is	required; check a					dicators (minimum of two required)	
	Water (A1)				Fauna (B	,		Soil Cracks (B6)	
	iter Table (A2)				uatic Plar	` ,		e Patterns (B10)	
Saturation						Odor (C		son Water Table (C2)	
	arks (B1)				l Knizosp	heres on		Burrows (C8) on Visible on Aerial Imagery (C9)	
	nt Deposits (B2) posits (B3)			(C3)	o of Redi	uced Iron		or Stressed Plants (D1)	
	at or Crust (B4)			•				phic Position (D2)	
	osits (B5)			(C6)	IUII I TOGO			utral Test (D5)	
	on Visible on Aeria	ıl Imager	v (B7)		ck Surfac	e (C7)		dudi 1951 (29)	
	Vegetated Conca		· · · —		or Well Da				
	tained Leaves (B9					Remarks)		
Field Obser	vations:						,		
Surface wat		Yes	No	Х	Depth (i	nches):			
Water table		Yes	No	X	Depth (i		——— In	dicators of wetland	
Saturation p	•	Yes	No	Х	Depth (i			ydrology present? Y	
(includes ca	pillary fringe)				•				
Describe red	corded data (strea	am gaug	e, monitoring well	, aerial p	hotos, p	revious i	nspections), if available:		
	•			•	•		,		
Remarks:									

Project/Site Black Dog Natural Gas Pipeline Project	City/	County:	Dakota	Sampling	Date:	10/26/2017
Applicant/Owner: Xcel Energy		State:	MN			PSS-W1
Investigator(s): JLK			on. Townshi		T27N R24W	/ Sec. 24
Landform (hillslope, terrace, etc.):	ace			ve, convex, none):		none
Slope (%): 0 - 5% Lat: 44.807895		Long:	-93.2460			NAD83
Soil Map Unit Name Colo silt loam, occasionally floode				Classification:		SS
Are climatic/hydrologic conditions of the site typical fo		of the year?		f no, explain in rema		
	logy	=	y disturbed?		•	
Are vegetation , soil , or hydrol		naturally pr		Are "norm	al circumsta	ances" esent? Yes
SUMMARY OF FINDINGS		naturally pr	obiematic:	(If needed, explain		
Hydrophytic vegetation present?				(II riceded, explain	ally allowe	ers in remarks.)
Hydric soil present?	-	le the e	ampled are	a within a wetland?	,	V
	_		-			<u>Y</u>
Indicators of wetland hydrology present? Y	_	i yes, op	otional wetlar	10 SILE ID:		
Remarks: (Explain alternative procedures here or in a	separate r	eport.)				
VEGETATION Use scientific names of plan	ts.					
·	Absolute	Dominan	Indicator	Dominance Test	Worksheet	!
Tree Stratum (Plot size:)	% Cover	t Species	Staus	Number of Dominar	nt Species	
1				that are OBL, FACV	V, or FAC: _	3 (A)
2				Total Number of		
3				Species Across	all Strata:	(B)
4				Percent of Dominar	•	400 000/ (A/D)
5				that are OBL, FACV	V, or FAC: _	100.00% (A/B)
Sanling/Shrub stratum (Plot size:	<u> </u>	= Total Cove	Г	Prevalence Index	Morkoboo	\ \
Sapling/Shrub stratum (Plot size:) 1 Salix interior) 35	Υ	FACW	Total % Cover of:	. WOIKSHEE	; t
2			TACW		100 x 1 =	100
3				FACW species	70 x 2 =	
4				FAC species	0 x 3 =	
5				FACU species	0 x 4 =	0
	35	= Total Cove	r	UPL species	0 x 5 =	0
Herb stratum (Plot size:))			Column totals	170 (A)	240 (B)
1 Carex lacustris	100	Υ	OBL	Prevalence Index	= B/A =	1.41
2 Phalaris arundinacea	30	Υ	FACW			
3 Elymus virginicus	5	<u>N</u>	FACW	Hydrophytic Veg		
4				Rapid test for		vegetation
5				X Dominance te		
0				X Prevalence inc		
8				Morphogical a		
9				supporting dat separate shee		KS OF OFF A
10				Problematic hy	-	/egetation*
	135	= Total Cove	r	(explain)	y an opiny no v	, ogotation
Woody vine stratum (Plot size:				l —	soil and wetlar	nd hydrology must be
1					ss disturbed o	
2				Hydrophytic		
	0	= Total Cove	r	vegetation	V	
				present?	<u>Y</u>	
Remarks: (Include photo numbers here or on a separa	ate sheet)					

SOIL Sampling Point: PSS-W1

Profile Desc	cription: (Descr	ibe to th	e depth n	eeded	to docu	ment the	e indicat	or or confirm th	ne absence	of indicators.)	
Depth <u>Matrix</u>			Redox Features							<u> </u>	
(Inches)	' — — — — — — — — — — — — — — — — — — —		Color (moist) % Type*				Loc**	Texture	e	Remarks	
0-36	N 2/0	100						Clay loam			
								-			
		 	 		├──	 					
					<u> </u>						
			<u> </u>								
*Type: C = C	Concentration, D :	= Denleti	ion RM = i	Reduc	ed Matrix	MS = N	Masked S	Sand Grains	**Location	: PL = Pore Lining, M = Matrix	
	il Indicators:	- Depict	.UII, IXIVI - I	Teuuo	50 IVIALIA	i, IVIO – iv	VIasneu C			natic Hydric Soils:	
_	isol (A1)			Sar	ndv Glevo	ed Matrix	(\$4)			ox (A16) (LRR K, L, R)	
	ic Epipedon (A2)		_		ndy Redo		((04)			(LRR K, L)	
	ck Histic (A3)		_		pped Ma	. ,				Masses (F12) (LRR K, L, R)	
	rogen Sulfide (A	4)	_			ky Minera	al (F1)		•	Surface (TF12)	
	itified Layers (A5)	-	_		-	red Matrix	. ,		explain in re		
	n Muck (A10))	_			atrix (F3)			ехріані ні п	elliaiks <i>)</i>	
	oleted Below Dark	v Qurface	- (Δ11) —			Surface					
	ck Dark Surface (, (ATT) _			ark Surfa		*Indicato	rs of hydro	ohytic vegetation and weltand	
	dy Mucky Minera		_			essions (present, unless disturbed or	
	n Mucky Peat or l	. ,	-	—'```	ION DOP.	63310115	(10)	Hydroid		roblematic	
			'				•		г	TODICITICATO	
	Layer (if observe	ed):						Ulvalnia a a	''	•	
Type:						-		Hyaric so	oil present?	'	
Depth (inche	:s):					-					
Remarks:											
Assumed	to meet thick	dark sı	ırface. So	oils ap	pear to	match	Colo so	il series which	has depl	etion beginning	
	117 centimete				-				•	- · · · · · · · · · · · · · · · · · · ·	
	• • • •										
HYDROLC											
Wetland Hy	drology Indicate	ors:									
Primary Indic	cators (minimum	of one is	required;	check	all that a	pply)		Seco	ndary Indic	ators (minimum of two required	
Surface '	Water (A1)	_	_	_	Aquatic	Fauna (B	313)			oil Cracks (B6)	
	ter Table (A2)					uatic Plar			Drainage F	Patterns (B10)	
X Saturation						en Sulfide				n Water Table (C2)	
	arks (B1)					d Rhizosp	heres on	Living Roots	•	urrows (C8)	
	t Deposits (B2)				(C3)				_	Visible on Aerial Imagery (C9)	
	oosits (B3)				_	e of Redu			_	Stressed Plants (D1)	
	t or Crust (B4)					ron Redu	uction in T			ic Position (D2)	
	osits (B5)	1 l a a a m	(07)		(C6)	1.00	(07)	<u> </u>	FAC-Neuti	ral Test (D5)	
	on Visible on Aeria				_	ck Surfac	` ,				
	Vegetated Conca tained Leaves (B9		ce (Bø)		_ ~	or Well Da Explain in	, ,	١			
	`)			Other (L	хріант н	Remains)	,		
Field Obser		Vas		NI.		Death (· -la\.				
Surface water		Yes		No No		Depth (i Depth (i			India	cators of wetland	
Water table Saturation pi		Yes Yes	X	No No		Depth (i		0		Irology present?	
(includes cap		163		INO		- Deptil (i			",	nology present:	
	corded data (strea	am galla	o monitori	na wol	L poriol r	hotos n	rovious i	acpostions) if av	railabla:		
Describe rec	orded data (Strea	aiii gaugi	<i>5</i> , 11101111011	ng wen	i, aeriai p	лююѕ, р	revious ii	ispections), ii av	allable.		
Remarks:											



Client Name:

Site Location:

Project ID:

Xcel Energy

Burnsville, MN

Black Dog Gas Pipeline Project

Photo No. 1

Location of Photo:

Description: PFO-W1



Photo No. 2

Location of Photo:





Client Name:

Site Location:

Project ID:

Xcel Energy

Burnsville, MN

Black Dog Gas Pipeline Project

Photo No. 3

Location of Photo:

Description: PFO-W1



Photo No. 4

Location of Photo:

Description: PEM-W1





Client Name:

Site Location:

Project ID:

Xcel Energy

Burnsville, MN

Black Dog Gas Pipeline Project

Photo No. 5

Location of Photo:

Description: PEM-W1



Photo No. 6

Location of Photo:

Description: PSS-W1





Client Name:

Site Location:

Project ID:

Xcel Energy

Burnsville, MN

Black Dog Gas Pipeline Project

Photo No. 7

Location of Photo:

Description:North side of PSS-W1 facing north.



Photo No. 8

Location of Photo:

Description:Upland adjacent to powerline tower.





Client Name:

Site Location:

Project ID:

Xcel Energy

Burnsville, MN

Black Dog Gas Pipeline Project

Photo No. 9

Location of Photo:

Description: Existing access road facing west.



Photo No. 10

Location of Photo:

Description: Existing access road facing east.





Client Name:

Site Location:

Project ID:

Xcel Energy

Burnsville, MN

Black Dog Gas Pipeline Project

Photo No. 11

Location of Photo:

Description:

View from southern project boundary facing north.



Photo No. 12

Location of Photo:





Client Name: Site Location: Project ID:

Xcel Energy Burnsville, MN Black Dog Gas Pipeline Project

Photo No. 13

Location of Photo:

BRG: 85.7° LAT: 44.807125 LON: -93.246595

Description: PFO-W1

Photo No. 14

Location of Photo:





Client Name: Site Location: Project ID:

Xcel Energy Burnsville, MN Black Dog Gas Pipeline Project

Photo No. 15

Location of Photo:

