Natural Resource and Water Supply Summary Tables and Figures

Line 3 Replacement Project Route Segment Alternative (RSA)-49

Summary of Publ	Table 1 Line 3 Replacement Project ic Waters Inventory Streams Crossed by the P and within the 2,000-ft-wide Route Alterna	roposed Route Segment Alternative Centerline				
Watershed CountyNumber Crossed by the Proposed Route Segment Alternative Centerline aMiles Within the 2,000-ft-wide Route Segment Alternative Corridor b						
Beartrap-Nemadji	3	2.0				
Carlton	3	2.0				
St. Louis	2	1.7				
Carlton	2	1.7				
Grand Total <sup>6</sup>	5	3.7				
<ul><li>a Number of Pu</li><li>b Total miles of alternative co</li></ul>	Public Waters Inventory stream segment(s) cro	proposed route segment alternative centerline.				

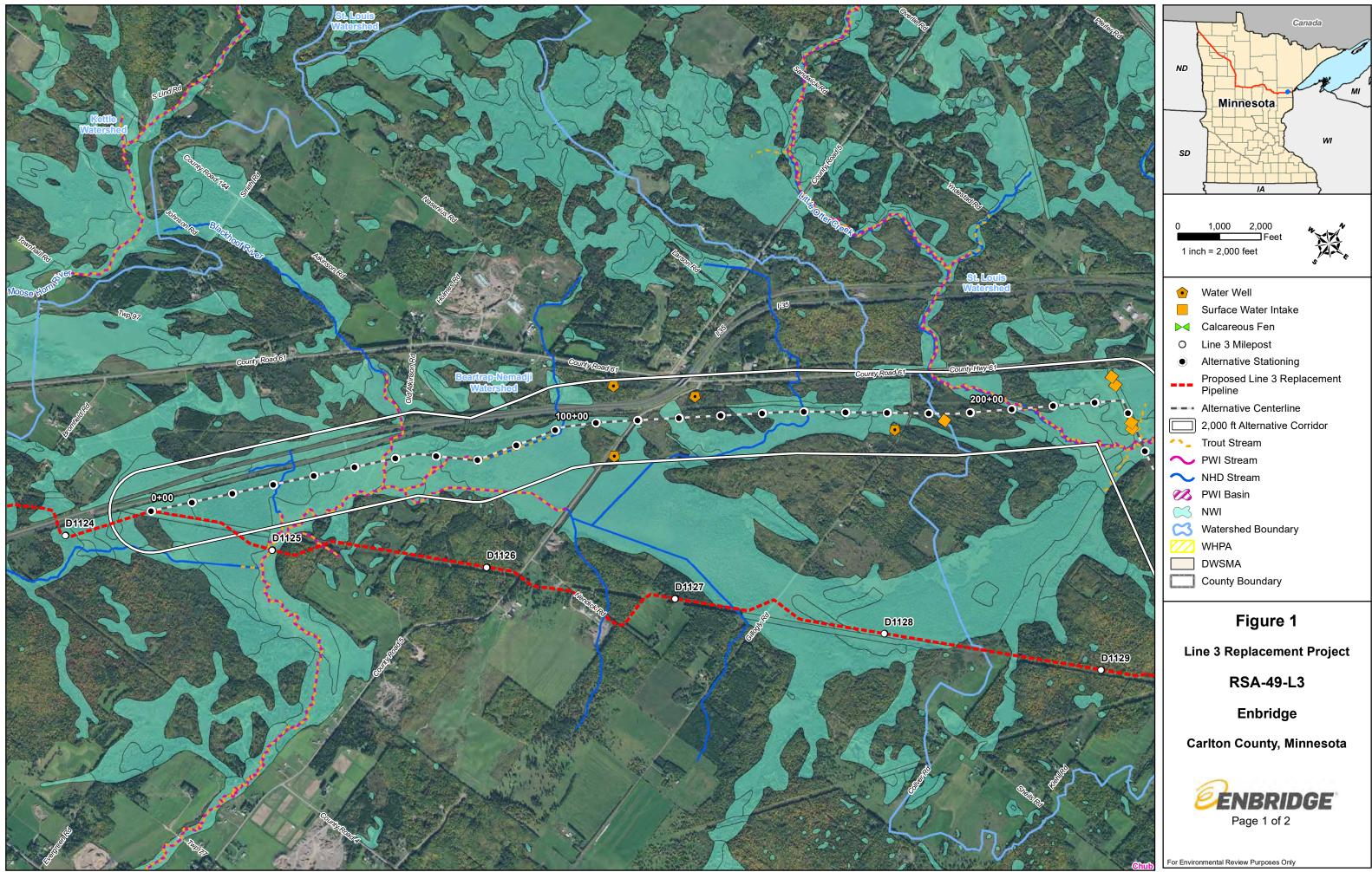
		ry of Waterbodies	Tab Line 3 Replacement c Crossed by the Pro D-ft-wide Route Seg	posed Rout	e Segment Alte		3	
Watershed	Number Crossed by the Proposed Route Alternative         Miles Within the 2,000-ft-wide Route Alternative           Centerline <sup>a</sup> Corridor <sup>b</sup>						tive	
County	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total <sup>c</sup>	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total <sup>c</sup>
Beartrap-Nemadji	3	3	-	6	3.6	0.8	-	4.5
Carlton	3	3	-	6	3.6	0.8	-	4.5
St. Louis	2	-	-	2	1.4	-	-	1.4
Carlton	2	-	-	2	1.4	-	-	1.4
Grand Total <sup>6</sup>	5	3	-	8	5.0	0.8	-	5.9
b Miles of NHD s	D waterbodies of the segment	crossed by the pro	posed route segmer 2000-ft-wide route s	it alternativ	e centerline.	-	solution/	

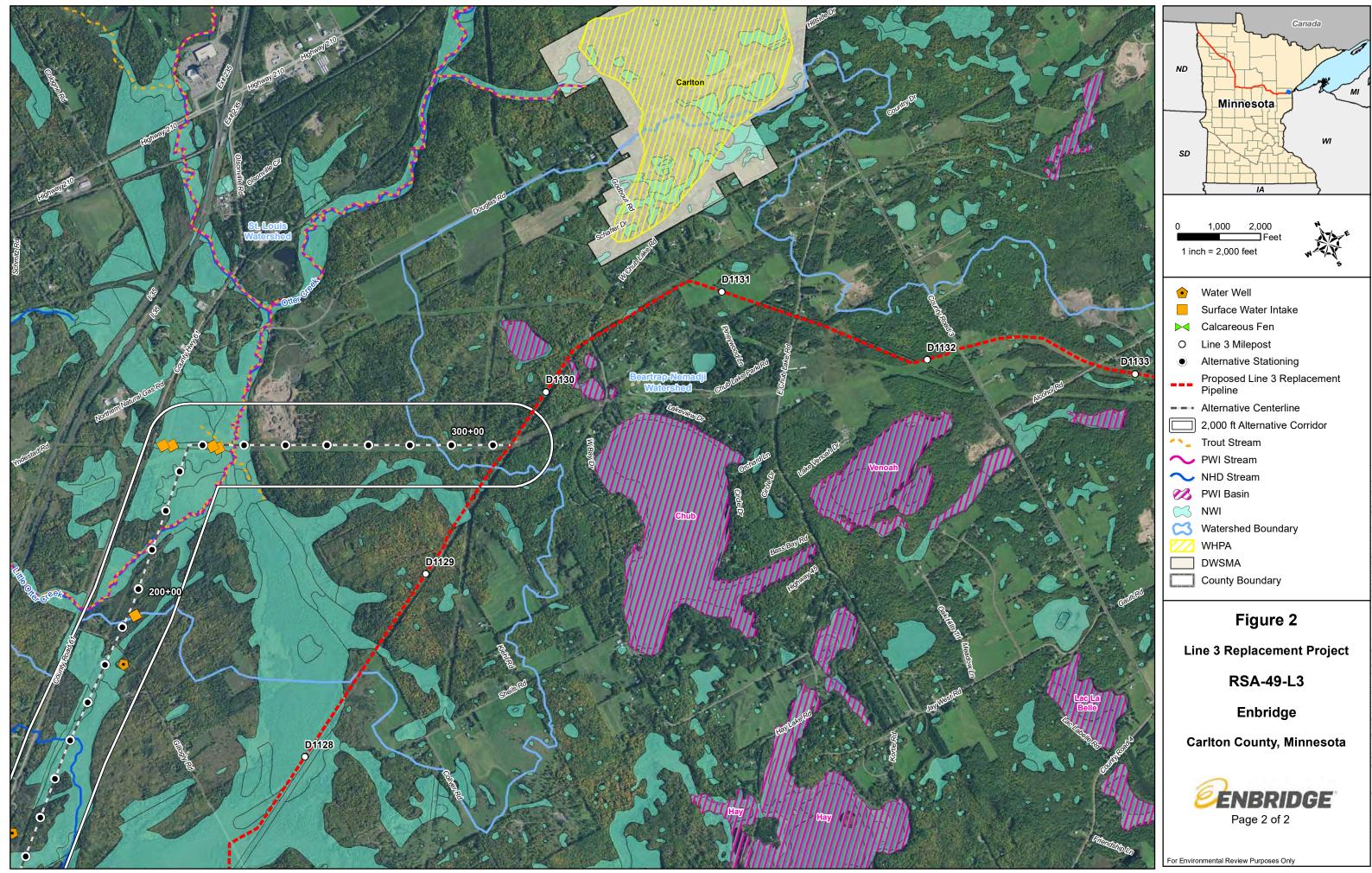
Summa	•		Line 3 Replacen ands Inventory Cro 000-ft-wide Route	ossed by the R	oute Segment			
Miles Crossed by the Proposed Route Segment         Acres Within the 2,000-ft-wide Route Segment Alternative           Watershed         Alternative Centerline <sup>a</sup> Corridor <sup>b</sup>								
County	PEM <sup>c</sup>	M <sup>c</sup> PFO/PSS <sup>c</sup> Pond/Lake/ Total <sup>d</sup>		PEM <sup>c</sup>	PFO/PSS <sup>c</sup>	Pond/Lake/ Riverine	Total <sup>d</sup>	
Beartrap-Nemadji	0.0	3.0	0.0	3.0	37.8	513.8	0.9	552.5
Carlton	0.0	3.0	0.0	3.0	37.8	513.8	0.9	552.5
St. Louis	0.1	0.5	0.0	0.7	20.9	175.2	1.4	197.5
Carlton	0.1	0.5	0.0	0.7	20.9	175.2	1.4	197.5
Grand Total	0.1	3.5	0.0	3.7	58.6	689.0	2.4	750.0
b Total acres of c PEM = Palustr	NWI crosse NWI within ine Emerge	d by the propose the 2000-ft-wide	ed route segment a e route segment al ne Scrub Shrub; PF	Iternative centernative corri	terline. dor.			

	Table 4 Line 3 Replacement Pro y of Trout Streams Crossed by the Propose d within the 2,000-ft-wide Route Segment	d Route Segment Alternative Centerline				
Watershed CountyNumber Crossed by the Proposed Route Segment Alternative Centerline aMiles Within the 2,000-ft-wide Route Segment Alternative Corridor						
Beartrap-Nemadji	3	2.4				
Carlton	3	2.4				
St. Louis	2	2.0				
Carlton	2	2.0				
Grand Total <sup>°</sup>	5	4.4				
Trout Stream Data So	ource: https://gisdata.mn.gov/dataset/env-	trout-stream-designations				
a Number of tro	a Number of trout streams crossed by the route segment alternative centerline.					
b Total miles of trout stream segment(s) crossed by the 2000-ft-wide route segment alternative corridor.						
c Numbers may not total consistently due to rounding.						

Table 5						
Line 3 Replacement Project – RSA-49-L3						
Wells within the 2,000-ft-wide Route Segment Alternative Corridor in Minnesota $^{ m a}$						
Watershed Name         County         Well Type         Distance from Centerline (feet)         Total Number of Wells						
	emadji Carlton		521			
Deartran Namadii			814	4		
Beartrap-Nemadji		Domestic	506	- 4		
			378			
County Well Index (CWI) Da a Municipal wells are no			u/pub2/cwi4/cwilocs nps	.zip		

Table 6 Line 3 Replacement Project – RSA-49-L3 Surface Water Intakes within the 2,000-ft-wide Route Segment Alternative Corridor in Minnesota <sup>a</sup>						
Watershed Name         County         Permit Type         Permit Status         Total						
	Carlton	General Permit	Active	3		
St. Louis		Authorization	Inactive	1		
St. Louis		Individual Permit	Inactive	1		
MPARS Minnesota DNR, Ecological and Water Resources, Sean Hunt, 651-259-5679 a Municipal wells are not included in the source data.						





Natural Resource and Water Supply Summary Tables and Figures

Line 3 Replacement Project Route Segment Alternative (RSA)-51

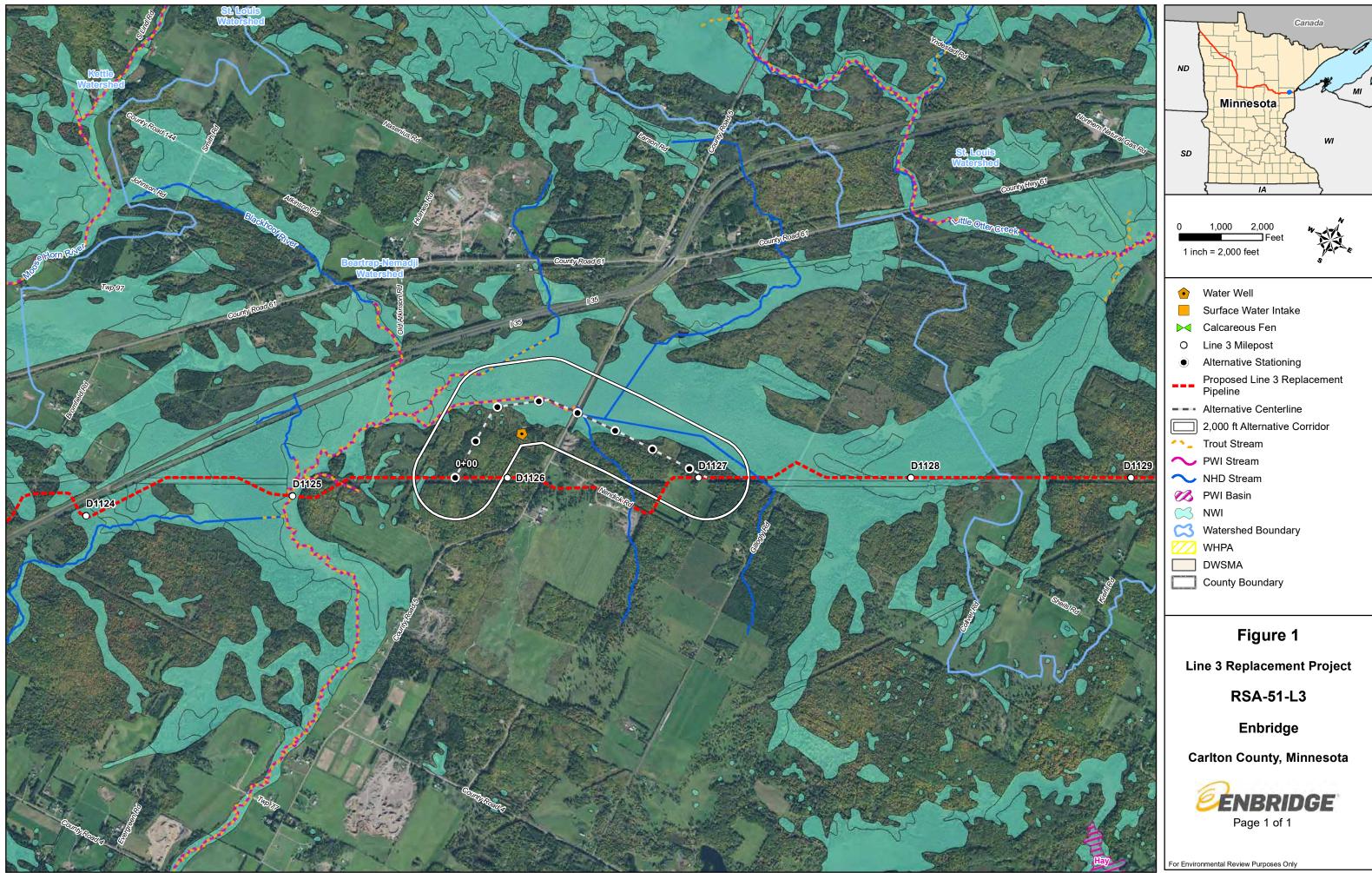
Table 1 Line 3 Replacement Project – RSA-51-L3 Summary of Public Waters Inventory Streams Crossed by the Proposed Route Segment Alternative Centerline and within the 2,000-ft-wide Route Segment Alternative Corridor in Minnesota							
Watershed County	Vatershed CountyNumber Crossed by the Proposed Route Segment Alternative Centerline aMiles Within the 2,000-ft-wide Route Segment Alternative Corridor						
Beartrap-Nemadji		2	0.7				
Carlto	า	2	0.7				
Grand To	tal <sup>c</sup>	2	0.7				
Public Wate	ers Invent	ory (PWI) Stream Data Source: https://gisdat	a.mn.gov/dataset/water-mn-public-waters				
a Number of Public Waters Inventory streams crossed by the proposed route segment alternative centerline.							
b Total miles of Public Waters Inventory stream segment(s) crossed by the 2000-ft-wide route segment							
alternative corridor.							
c Num	bers may	not total consistently due to rounding.					

		•	Tab Sandpiper Pipeline Crossed by the Pro D-ft-wide Route Seg	posed Rout	e Segment Alte		2	
Watershed	Number Crossed by the Proposed Route Segment         Miles Within the 2,000-ft-wide Route Segment Alternative           Alternative Centerline <sup>a</sup> Corridor <sup>b</sup>							
County	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total <sup>c</sup>	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total <sup>c</sup>
Beartrap-Nemadji	3	-	-	3	1.3	0.1	0.8	2.2
Carlton	3	-	-	3	1.3	0.1	0.8	2.2
Grand Total <sup>c</sup>	3	-	-	3	1.3	0.1	0.8	2.2
b Miles of NHD s	D waterbodies of the segment	crossed by the pro	posed route segmer 2000-ft-wide route s	nt alternativ	e centerline.		solution/	

Summa			Line 3 Replacem ands Inventory Cro 000-ft-wide Route	ossed by the R	oute Segment		-	
Miles Crossed by the Proposed Route Alternative         Acres Within the 2,000-ft-wide Route Alternative Corridor           Watershed         Centerline <sup>a</sup> b						ive Corridor		
County	PEM <sup>c</sup>	PFO/PSS <sup>c</sup>	Pond/Lake/ Riverine	Total <sup>d</sup>	PEM <sup>c</sup>	PFO/PSS <sup>c</sup>	Pond/Lake/ Riverine	Total <sup>d</sup>
Beartrap-Nemadji	0	0.7	0	0.7	0	166.1	0	166.1
Carlton	0	0.7	0	0.7	0	166.1	0	166.1
Grand Total	0	0.7	0	0.7	0	166.1	0	166.1
b Total acres of c PEM = Palustr	NWI crosse NWI within ine Emerge	d by the propose the 2000-ft-wide	ed route segment a e route segment al ne Scrub Shrub; PF	Iternative centernative corri	terline. dor.			

	Table 4 Line 3 Replacement Proj y of Trout Streams Crossed by the Propose d within the 2,000-ft-wide Route Segment	d Segment Route Alternative Centerline				
Watershed County	Route Segment Alternative Centerline					
Beartrap-Nemadji	2	0.8				
Carlton	2	0.8				
Grand Total <sup>c</sup>	2	0.8				
a Number of tro b Total miles of	purce: https://gisdata.mn.gov/dataset/env- but streams crossed by the route segment al trout stream segment(s) crossed by the 200 not total consistently due to rounding.	5				

Table 5							
Line 3 Replacement Project – RSA-51-L3							
Wells wit	Wells within the 2,000-ft-wide Route Segment Alternative Corridor in Minnesota <sup>a</sup>						
Watershed Name	Vatershed Name County		Distance from Centerline (feet)	Total Number of Wells			
Beartrap-Nemadji	Beartrap-Nemadji Carlton Domestic 703 1						
County Well Index (CWI) Data Source: <u>ftp://mgssun6.mngs.umn.edu/pub2/cwi4/cwilocs_nps.zip</u> a Municipal wells are not included in the source data.							



Natural Resource and Water Supply Summary Tables and Figures

Line 3 Replacement Project Route Segment Alternative (RSA)-52

Table 1 Line 3 Replacement Project – RSA-52-L3 Summary of Public Waters Inventory Streams Crossed by the Proposed Route Segment Alternative Centerline and within the 2,000-ft-wide Route Segment Alternative Corridor in Minnesota						
Watershed CountyNumber Crossed by the Proposed Route Segment Alternative Centerline aMiles Within the 2,000-ft-wide Route Segment Alternative Corridor b						
Beartrap-Nemadji	-	0.1				
Carlton	-	0.1				
Grand Total <sup>c</sup>	-	0.1				
Public Waters Inven	tory (PWI) Stream Data Source: https://gisda	ta.mn.gov/dataset/water-mn-public-waters				
a Number of Public Waters Inventory streams crossed by the proposed route segment alternative centerline.						
b Total miles of	Public Waters Inventory stream segment(s)	crossed by the 2000-ft-wide route segment				
alternative co	alternative corridor.					
c Numbers may	y not total consistently due to rounding.					

		ry of Waterbodies	Tab Line 3 Replacement Crossed by the Pro D-ft-wide Route Seg	posed Rout	te Segment Alte		2	
Watershed	Number	Crossed by the Pi Alternative C	oposed Route Segn enterline <sup>a</sup>	nent	Miles Withir	the 2,000-ft-wide Corrid	e Route Segment Alt	ernative
County	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	۲otal <sup>د</sup>	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total <sup>c</sup>
Beartrap-Nemadji	1	-	-	1	0.7	-	0.8	1.5
Carlton	1	-	-	1	0.7	-	0.8	1.5
Grand Total <sup>c</sup>	1	-	-	1	0.7	-	0.8	1.5
b Miles of NHD s	D waterbodies stream segment	crossed by the pro	posed route segmer 2000-ft-wide route s	nt alternativ	e centerline.		solution/	

Summa			Line 3 Replacem ands Inventory Cro 000-ft-wide Route	ossed by the R	oute Segment		-	
Watershed	Mile	•	Proposed Route S ve Centerline <sup>a</sup>	egment	Acres Within	-	ide Route Segmen ridor <sup>b</sup>	t Alternative
County	PEM °	۹۴0/PSS <sup>د</sup>	Pond/Lake/ Riverine	Total <sup>d</sup>	PEM <sup>c</sup>	PFO/PSS <sup>c</sup>	Pond/Lake/ Riverine	Total <sup>d</sup>
Beartrap-Nemadji	0	0.1	0	0.1	0	83.1	0	83.1
Carlton	0	0.1	0	0.1	0	83.1	0	83.1
Grand Total	0 0.1 0 0.1 0 83.1 0 8							83.1
b Total acres of c PEM = Palustr	NWI crosse NWI within ine Emerge	d by the propose the 2000-ft-wide	ed route segment a e route segment al ne Scrub Shrub; PF	Iternative cen ternative corri	terline. dor.			

	Table 4 Line 3 Replacement Proj y of Trout Streams Crossed by the Propose d within the 2,000-ft-wide Route Segment	d Route Segment Alternative Centerline						
Watershed County	Number Crossed by the Proposed Route Segment Alternative Centerline a	Miles Within the 2,000-ft-wide Route Segment Alternative Corridor <sup>b</sup>						
Beartrap-Nemadji	trap-Nemadji 0 0.1							
Carlton	Carlton 0 0.1							
Grand Total <sup>6</sup>	0	0.1						
a Number of tro b Total miles of	ource: https://gisdata.mn.gov/dataset/env- out streams crossed by the route segment al trout stream segment(s) crossed by the 200 not total consistently due to rounding.	5						

		Table 5						
	Line 3 Rep	lacement Project -	- RSA-52-L3					
Wells wit	hin the 2,000-ft-wide I	Route Segment Alt	ernative Corridor in Minn	esota <sup>°</sup>				
Watershed Name	Watershed Name         County         Well Type         Distance from Centerline (feet)         Total Number of Wells							
Beartrap-Nemadji	Carlton	Unknown	733	1				
	Data Source: <u>ftp://mgs</u> not included in the sou		lu/pub2/cwi4/cwilocs_nps	s.zip				



Natural Resource and Water Supply Summary Tables and Figures

Line 3 Replacement Project Route Segment Alternative (RSA)-White Elk Lake

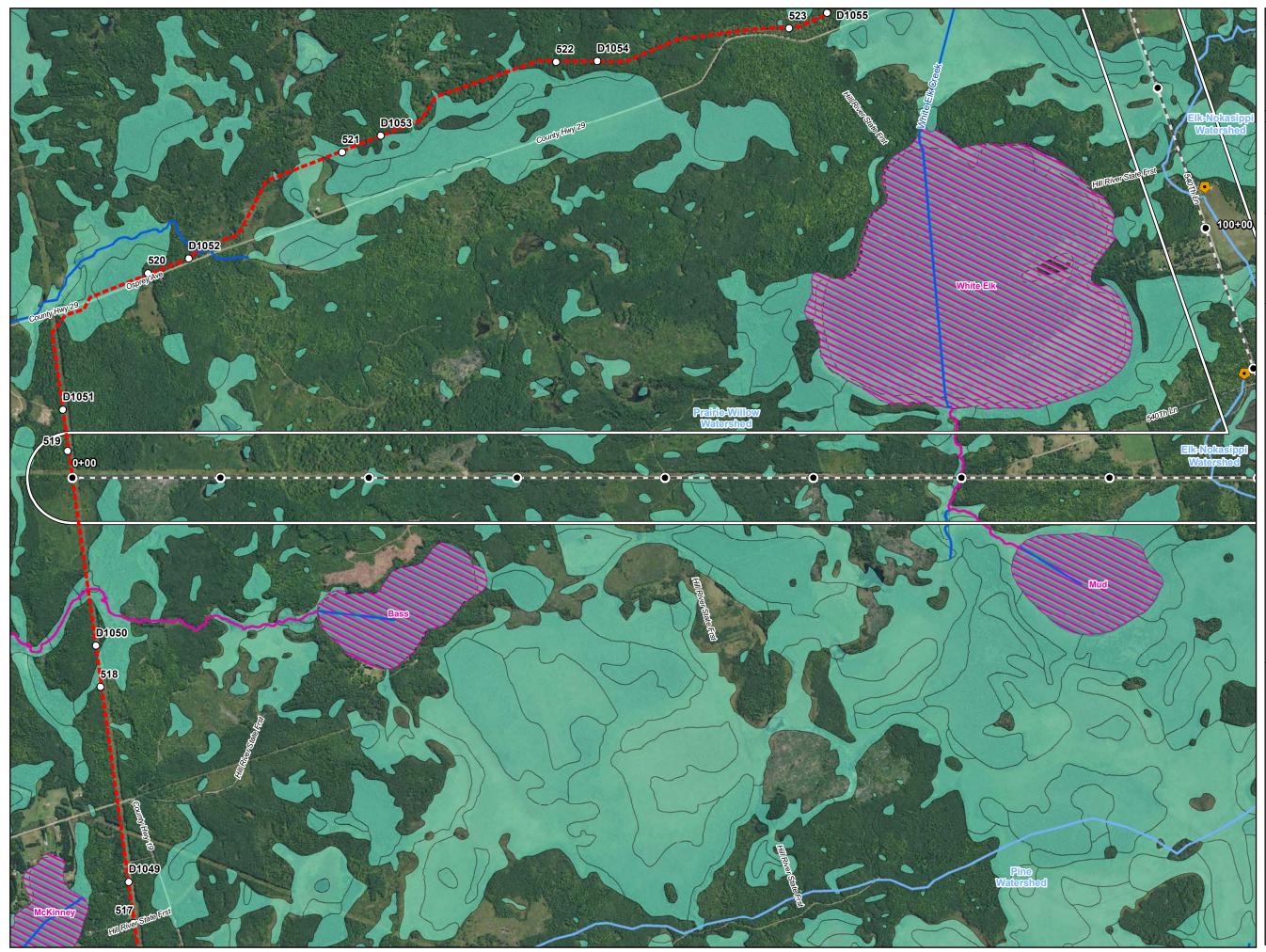
	Table 1 Line 3 Replacement Project – R ic Waters Inventory Streams Crossed by the id within the 2,000-ft-wide Route Segment	e Proposed Route Segment Alternative Centerline					
Watershed County	Number Crossed by the Proposed Route Segment Alternative Centerline a	Miles Within the 2,000-ft-wide Route Segment Alternative Corridor <sup>b</sup>					
Prairie-Willow	Prairie-Willow 1 0.5						
Aitkin	1	0.5					
Grand Total <sup>c</sup>	Grand Total <sup>c</sup> 1 0.5						
<ul><li>a Number of Pu</li><li>b Total miles of alternative con</li></ul>	blic Waters Inventory streams crossed by th Public Waters Inventory stream segment(s) rridor.	nta.mn.gov/dataset/water-mn-public-waters e proposed route segment alternative centerline. crossed by the 2000-ft-wide route segment					
c Numbers may	not total consistently due to rounding.						

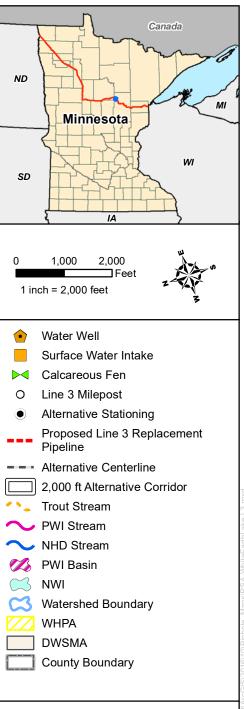
		ry of Waterbodies	Tab Replacement Proje Crossed by the Pro D-ft-wide Route Seg	posed Rout	te Segment Alte		2	
Watershed	Number	Crossed by the Pi Alternative C	oposed Route Segn enterline <sup>a</sup>	nent	Miles Withir	the 2,000-ft-wide Corrid	e Route Segment Alt lor <sup>b</sup>	ernative
County	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total <sup>c</sup>	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total <sup>c</sup>
Prairie-Willow	1	1	-	2	0.8	0.4	0.1	1.3
Aitkin	1	1	-	2	0.8	0.4	0.1	1.3
۵ Grand Total	1	1	-	2	0.8	0.4	0.1	1.3
b Miles of NHD	HD waterbodies of stream segment	crossed by the pro	posed route segmer 2000-ft-wide route s	nt alternativ	e centerline.		solution/	

Summ	•	/S National Wet	e 3 Replacement F lands Inventory Cr ,000-ft-wide Route	ossed by the	Proposed Rou	te Segment Alte		
Watershed	Mile	•	e Proposed Route S ive Centerline <sup>a</sup>	Segment	Acres With	-	ride Route Segmer rridor <sup>b</sup>	nt Alternative
County	PEM ۲	PFO/PSS <sup>c</sup>	Pond/Lake/ Riverine	Total <sup>d</sup>	PEM <sup>c</sup>	PFO/PSS <sup>c</sup>	Pond/Lake/ Riverine	Total <sup>d</sup>
Prairie-Willow	1.3	1.0	-	2.3	274.4	352.2	0.9	627.5
Aitkin	1.3	1.0	-	2.3	274.4	352.2	0.9	627.5
Elk-Nokasippi	-	0.2	-	0.2	4.5	73.8	-	78.2
Aitkin	-	0.2	-	0.2	4.5	73.8	-	78.2
Grand Total <sup>d</sup>	1.3	1.2	-	2.5	278.8	426.0	0.9	705.7
	f NWI crosse	d by the propos	Source: http://ww ed route segment a e route segment a	alternative ce	nterline.	Data-Download.h	itml	
c PEM = Palust	rine Emerge		ine Scrub Shrub; P			wardin et al. 197	79).	

d Numbers may not total consistently due to rounding.

-	ment Project – RSA		nnesotaª				
Watershed Name         County         Well Type         Distance from Centerline (feet)         Total Number Wells							
Aitkin	Domestic	242	1				
Aitkin	Domestic	258	1				
		683					
Aitkin	Domestic	483	3				
		246					
- -	the 2,000-ft-wide County Aitkin Aitkin	the 2,000-ft-wide Route Segment A County Well Type Aitkin Domestic Aitkin Domestic	Line 3 Replacement Project – RSA-White Elk Lake-L3the 2,000-ft-wide Route Segment Alternative Corridor in MirCountyWell TypeDistance from Centerline (feet)AitkinDomestic242AitkinDomestic258AitkinDomestic483				





# Figure 1

Line 3 Replacement Project

RSA-White Elk Lake-L3

# Enbridge

Aitkin County, Minnesota



For Environmental Review Purposes Only

