

Appendix L

Fish and Wildlife Tables

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Table L-1. Trout Streams Potentially Affected by the Applicant's Preferred Route and Route Alternatives between Clearbrook and Carlton, Minnesota (number)

Trout Streams – Kittle Name (Kittle Number)	Near Milepost	Near Route	Applicant's Preferred Route			Route Alternative RA-03AM			Route Alternative RA-06			Route Alternative RA-07			Route Alternative RA-08		
			Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile
Blackhoof River (S-001-003)	MN 408.1	RA-03AM	1	1	1	1	1	1									
Cat River (M-096-028)	MN 211.9	RA-03AM				1		1									
Cat River (M-096-028)	MN 213.2	RA-03AM					1										
Clearwater River (H-026-030-019)	MN 149.2	RA-06							1	1	1						
Clearwater River (H-026-030-019)	MN 151.2	RA-07										1	1	1			
Fawn Creek (M-096-018)	MN 238.2	RA-03AM				1	1	1									
Hay Creek (M-096-020-001)	MN 235	RA-03AM				1	1	1									
King Creek (M-050-046-029-023)	MN 344.2	Applicant's preferred route	1	1	1												
King Creek (M-050-046-029-023)	MN 400.4	RA-03AM						1									
LaSalle Creek (M-163)	MN 171.4	RA-03AM			1			1									
LaSalle Creek (M-163)	MN 171.7	RA-03AM	1	1	1	1	1	1									
Little Otter Creek (S-002-009-001)	MN 301.5	RA-08															1

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			Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile
Little Otter Creek (S-002-009-001)	MN 332.3	RA-06									1			1			
Little Otter Creek (S-002-009-001)	MN 333.3	RA-06							2	1	1	2	1	1	2	1	1
Mission Creek (M- 050-044-006)	MN 355.9	RA-03AM				1	1	1									
Necktie River (M- 146-017-001)	MN 173.3	RA-07												1			1
Necktie River (M- 146-017-001)	MN 176.4	RA-07										1	1	1			1
Necktie River (M- 146-017-001)	MN 177	RA-08													1	1	1
Necktie River (M- 146-017-001- B010)	MN 173.7	RA-07												1			1
O'Brien Creek (H- 026-030-069-004)	MN 172.6	RA-06							1	1	1						
Otter Creek (S- 002-009)	MN 295	RA-08									1			1			1
Otter Creek (S- 002-009)	MN 298.5	RA-07									1			1			
Pine River, South Fork (M-106-013)	MN 232.7	Applicant's preferred route			1												

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			Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile
Spring Brook (M-106-004-002-001)	MN 265.3	Applicant's preferred route	1	1	2												
Spring Creek (H-026-030-069-003-004)	MN 182.1	RA-06									1						
Spring Creek (M-050-046-010-001)	MN 360.7	RA-03AM						1									
Straight River (M-096-035-002-002)	MN 198.3	Applicant's preferred route	1	1	1	1	1	1									
Unnamed Creek (H-026-030-019-024.35)	MN 150.4	RA-06									1						
Unnamed Creek (H-026-030-019-024.4)	MN 149.1	RA-06									1						
Unnamed Creek (H-026-030-019-024.45)	MN 148.5	RA-06									1						
Unnamed Creek (H-026-030-019-024.5)	MN 148.2	RA-06									1						
Unnamed Creek (H-026-030-019-025.1)	MN 151.1	RA-07										1	1	1			

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Trout Streams – Kittle Name (Kittle Number)	Near Milepost	Near Route	Applicant's Preferred Route			Route Alternative RA-03AM			Route Alternative RA-06			Route Alternative RA-07			Route Alternative RA-08		
			Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile
Unnamed Creek (H-026-030-069- 004-007)	MN 173.1	RA-06									1						
Unnamed Stream (H-001-030-023- 002-010-001)	MN 243.6	RA-06									1						
Unnamed Stream (H-001-030-023- 002-010-001-001)	MN 243.6	RA-06							1	1	1						
Unnamed Stream (H-001-030-023- 002-010-001-001- 001)	MN 243.7	RA-06									1						
Unnamed Stream (H-001-030-023- 002-010-002)	MN 243.2	RA-06									1						
Unnamed Stream (H-001-030-023- 002-010-003)	MN 243.3	RA-06									1						
Unnamed Stream (M-050-046-029- 023-002)	MN 344.8	Applicant's preferred route			1												
Unnamed Stream (M-050-046-029- 029)	MN 406.3	RA-03AM			1			1									
Unnamed Stream (M-096-020-001- 002)	MN 234.9	RA-03AM						1									

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Trout Streams – Kittle Name (Kittle Number)	Near Milepost	Near Route	Applicant's Preferred Route			Route Alternative RA-03AM			Route Alternative RA-06			Route Alternative RA-07			Route Alternative RA-08		
			Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile
Unnamed Stream (M-096-020-001-003)	MN 233.6	RA-03AM						1									
Unnamed Stream (M-106-013-008)	MN 232.4	Applicant's preferred route			1												
Unnamed Stream (M-146-017-001-001)	MN 173.9	RA-08										2	1	1	2	1	1
Unnamed Stream (M-146-017-001-002)	MN 172.7	RA-08													1	1	
Unnamed Stream (M-146-017-001-002)	MN 173	RA-08															1
Unnamed Stream (M-146-017-001-002)	MN 173.3	RA-07										1	1	1			1
Unnamed Stream (M-146-017-001-003)	MN 172.9	RA-07												1			1
Unnamed Stream (S-001-003-027.8)	MN 408.1	RA-03AM			1			1									
Unnamed Stream (S-001-003-028)	MN 352.1	Applicant's preferred route			1			1									

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Trout Streams – Kittle Name (Kittle Number)	Near Milepost	Near Route	Applicant's Preferred Route			Route Alternative RA-03AM			Route Alternative RA-06			Route Alternative RA-07			Route Alternative RA-08		
			Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile
Unnamed Stream (S-001-003-029)	MN 352.3	Applicant's preferred route	1	1	1	1	1	1									
Unnamed Stream (S-001-003-030)	MN 352.7	Applicant's preferred route			1			1									
Unnamed Stream (S-001-003-030- 001)	MN 408.7	RA-03AM			1			1									
Unnamed Stream (S-001-003-030- 001-B001)	MN 408.8	RA-03AM			1			1									
Unnamed Stream (S-002-009-001- 000.4)	MN 301.3	RA-08									1			1	1		1
Unnamed Stream (S-002-009-001- 000.5)	MN 333.3	RA-06									1			1			1
Unnamed Stream (S-002-009-001- 001)	MN 332.3	RA-06									2			2			1
Unnamed Stream (S-002-009-001- 002)	MN 330.4	RA-06									1			1			1
Unnamed Stream (S-002-009-001- 002-001)	MN 298.5	RA-08									1			1			1

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Trout Streams – Kittle Name (Kittle Number)	Near Milepost	Near Route	Applicant's Preferred Route			Route Alternative RA-03AM			Route Alternative RA-06			Route Alternative RA-07			Route Alternative RA-08		
			Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile	Con	Op	0.5 mile
Unnamed Stream (S-002-009-001-003)	MN 298.3	RA-08									1			1			2
Unnamed Stream (S-002-032-011)	MN 283.6	RA-06							1	1	1						
Venning Creek (H-001-030-023-002-010)	MN 242.7	RA-06							1	1	1						
Venning Creek (H-001-030-023-002-010-B001)	MN 243.5	RA-06									1						
Venning Creek (H-001-030-023-002-010-B002)	MN 243.6	RA-06									1						
TOTAL			6	6	17	8	8	19	7	6	28	8	6	19	7	4	18

Source: Minnesota DNR 2015a.

Notes:

Con = construction; Op = operations; SA = study area number of occurrences (potential crossings) based on 1 mile wide corridor

Table L-2. Lakes of Biological Significance within 0.5 mile of the Applicant's Preferred Route in Minnesota and Route Alternatives between Clearbrook and Carlton, Minnesota (acres)

LBS Class	Watershed	DNR Hydrology ID	Area (acres)	Shoreline (miles)	Applicant's Preferred Route		RA-03AM	RA-06	RA-07	RA-08
					ND Border to Clearbrook	Clearbrook to Carlton				
Outstanding	Bass	12592	2,713.6	24.4					27.7	
	Carr	14494	42.4	1.1					24.8	42.4
	Cass	14870	15,958.3	45.4					363.8	
	Dora	13286	429.8	6.7				2.4		
	East Four-Legged	23949	356.6	6.4					84.2	
	Fish	7417	505.8	10.0			13.9			
	Fish Trap	3878	1,163.8	13.1			52.8			
	Grant	15401	213.7	3.7						103.5
	Irving	15390	661.3	5.3					160.0	
	Island	14798	541.2	7.1		41.1	41.1			
	Leech	21722	110,309.9	232.6						9.4
	Marquette	14919	527.6	5.5						129.3
	Mud	11386	210.8	2.5		86.0	86.0			
	Pike Bay	14487	4,751.3	10.7					615.6	64.8
	Rice	29814	77.9	1.7		69.0				
	Roosevelt	14175	1,510.6	18.6		43.5				
	Round	26991	44.4	1.0		12.0				
	Salo WMA Impoundment	8169	312.7	4.6		29.1				
	Shallow	13543	539.0	5.1					196.6	372.4
	Six Mile	14395	1,323.0	7.8						44.3
	Washburn	12488	1,590.2	19.7		5.5				

Table L-2. Lakes of Biological Significance within 0.5 mile of the Applicant's Preferred Route in Minnesota and Route Alternatives between Clearbrook and Carlton, Minnesota (acres)

LBS Class	Watershed	DNR Hydrology ID	Area (acres)	Shoreline (miles)	Applicant's Preferred Route		RA-03AM	RA-06	RA-07	RA-08
					ND Border to Clearbrook	Clearbrook to Carlton				
	Waukenabo	13413	666.1	4.9		5.9				
	West Four-Legged	21300	432.0	8.0					244.3	73.3
	White Oak	13452	942.5	8.5					144.4	368.8
	Winnibigoshish	12798	56,471.6	69.8					61.9	
Outstanding Total						292.1	193.8	2.4	1,923.4	1,208.1
High	Big	12490	529.5	8.1				26.2	26.2	30.3
	Long	12005	132.4	4.1				84.2		
	Upper Twin	14867	212.5	3.2		4.9				
	Wawina	30415	375.5	3.9					166.5	
High Total						4.9		110.4	192.7	30.3
Moderate	Ball Club	14124	4,335.3	19.5					228.3	121.4
	Clear	6913	26.3	0.9			26.3			
	Grass	11897	232.6	3.4					28.2	
	Portage	15124	429.3	5.3		44.4	44.4			
	Twin	14906	168.8	3.2						68.7
	Unnamed	1805	208.8	7.3	111.3					
Moderate Total					111.3	44.4	70.6		256.4	190.1
TOTAL					111.3	341.3	264.4	112.9	2,372.5	1,428.5

Table L-2. Lakes of Biological Significance within 0.5 mile of the Applicant's Preferred Route in Minnesota and Route Alternatives between Clearbrook and Carlton, Minnesota (acres)

LBS Class	Watershed	DNR Hydrology ID	Area (acres)	Shoreline (miles)	Applicant's Preferred Route		RA-03AM	RA-06	RA-07	RA-08
					ND Border to Clearbrook	Clearbrook to Carlton				

Source: Minnesota DNR 2016, Minnesota DNR 2015b

DNR =Minnesota Department of Natural Resources, LBS = Lake of Biological Significance

Notes:

Rank Definitions: Outstanding – Plants: high aquatic plant richness, high floristic quality, and a population of an endangered or threatened plant; important wild rice lakes. Fish: exceptional fishery for selected game fish or an outstanding nongame fish community. Birds: endangered or threatened colonial waterbird nesting area, presence of several endangered, threatened or special concern lake bird species, or six or more lake bird Species of Greatest Conservation Need.

High – Plants: high aquatic plant richness, high floristic quality, or a population of an endangered or threatened plant. Fish: populations of more than one fish of special concern and/or Species of Greatest Conservation Need. Birds: colonial waterbird nesting area, history of endangered or threatened colonial waterbird nesting, presence of endangered, threatened, or special concern lake bird species, or five lake bird Species of Greatest Conservation Need.

Moderate – Plants: high aquatic plant richness, high floristic quality, or a population of an endangered or threatened plant. Fish: populations of one fish species of special concern and/or fish Species of Greatest Conservation Need. Birds: history of colonial waterbird nesting, presence of an endangered, threatened, or several lake bird Species of Greatest Conservation Need.

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