

**ALBERTA TRANSPORTATION SPRINGBANK OFF-STREAM RESERVOIR PROJECT
RESPONSE TO CEEA INFORMATION REQUEST PACKAGE 3, AUGUST 31, 2018**

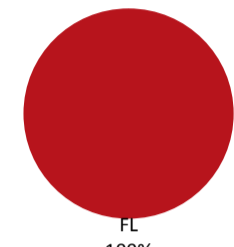
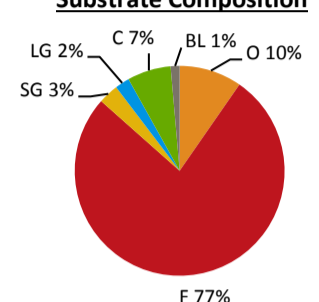
Appendix IR7-1 Field Data Sheet for Unnamed Tributary
May 2019

APPENDIX IR7-1 FIELD DATA SHEET FOR UNNAMED TRIBUTARY

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Physical Channel Transect Data												
Transect # (Location)	1 (↑100)	2 (↑50)	3 (CL)	4 (↓100)	5 (↓200)	6 (↓300)						
Channel Width (m)	0.8	1.0	1.0	0.5	0.5	1.0						
Wetted Width (m)	0.5	0.5	0.8	0.3	0.3	0.5						
Depth at LDB + 25% (m)	< 0.1	≤ 0.1	0.10	< 0.1	≤ 0.1	≤ 0.1						
Depth at LDB + 50% (m)	< 0.1	≤ 0.1	0.10	< 0.1	≤ 0.1	≤ 0.1						
Depth at LDB + 75% (m)	< 0.1	≤ 0.1	0.10	< 0.1	≤ 0.1	≤ 0.1						
Max. Depth (m)	< 0.1	≤ 0.1	0.10	< 0.1	≤ 0.1	≤ 0.1						
Gradient (%)	-	-	-	-	-	-						
Dominant Habitat Unit	FL	FL	FL	FL	FL	FL						
Stream Bed												
Substrate (% of Transect Area)	Organics	30	10	0	10	0	10	0	10	0	10	
	Fines	55	70	100	35	100	80					
	Small Gravel	5	10	0	5	0	0					
	Large Gravel	5	5	0	5	0	0					
	Cobble	5	5	0	40	0	5					
	Boulder	0	0	0	5	0	5					
	Bedrock	0	0	0	0	0	0					
Embeddedness	H	H	H	H	H	H						
Bank Measurements												
	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
Bank Height (m)	0.60	-	-	-	-	-	0.40	-	-	-	-	-
Bank Slope (°)	-	-	-	-	-	-	-	-	-	-	-	-
Bank Stability	US	US	US	US	US	US	US	US	US	US	US	US
Dom. Bank Material	F	F	F	F	F	F	F	F	-	-	-	-
Subdom. Bank Material	O	O	O	O	O	O	O	O	-	-	-	-
Dom. Riparian Veg.	G	G	G	G	G	G	G	G	G	G	-	-
Subdom. Riparian Veg.	D	D	D	S	S	M	D	D	S	S	-	-

Habitat Inventory / Reach Data			
Dom. Instream Cover:	-	Dom. Overhead Cover:	UC
Subdom. Instream Cover:	-	Subdom. Overhead Cover:	OV
Maximum Depth (m)	0.1	Dom. Aquatic Veg. Type:	-
Habitat Distribution		Substrate Composition	
 <p>FL 100%</p>		 <p>F 77% O 10% C 7% SG 3% BL 1% LG 2%</p>	

Water Quality Data		Channel Characteristics	
Time of Day (HH:MM):	-	Pattern:	IM
Water Temperature (°C):	-	Islands:	N
Dissolved Oxygen (mg/L):	-	Bars:	N
Sp. Conductivity (µs/cm):	-	Coupling:	CO
pH:	-	Confinement:	CO
Turbidity (NTU):	-	Flow Stage:	Pooled

Fish Habitat Assessment Ratings			
	Forage	Coarse	Sportfish
Spawning:	None	None	None
Overwintering:	None	None	None
Rearing:	Poor	None-Poor	None
Migration:	Poor	Poor	None



Photo 1: View upstream at T2.



Photo 2: View of wetted channel at T5.

Fish Sampling Data								
Method		Effort	Species	Efish Catch (n)	Trap Catch (n)	Efish CPUE (#fish/100s)	Trap CPUE (#fish/hr)	Rel. Abundance (% of total)
Backpack Electrofisher (EB)		300 (s)	BROOK STICKLEBACK	2	-	0.67	-	100.0%
No Trapping		0.0 (hr)	-	-	-	-	-	-
Electrofisher Settings				-	-	-	-	-
Volts	Freq. (Hz)	Duty Cycle (%)	Dist. (m)	-	-	-	-	-
225	30	12	50	-	-	-	-	-

General Comments

