

Appendix 5: Electrofishing Field Data Sheets

Electroseine Survey Data Form



P.O. Box 129 Bridgetown, NS B0S 1C0
(902)665-4682

Project: Spicer Quarry - EA
Watershed: Ray Br-Annapolis **Site Description:** Ray Brook, between Beaconsfield Road and Spicer Quarry access road. GPS track: Sp EF1
Site: Beaconsfield, Ann.Co.
UTM: 20T 311927 4966614
Date: 18/6/2019 **Water Temp °C:** 10.5
Survey Length (m): 484 **Air Temp °C:** 18
pH: 7.71 **Conductivity:** 132 uS/cm
DO: 103% **DO:** 11.5 mg/L

	Avg.'s	A:	B:	C:	Dw (m):	1/4	1/2	3/4	Individual DW _{avg} (m)
Dbf (+m):	0.39	0.38	0.39	0.39	A:	0.07	0.15	0.1	0.106666667
Wbf (m):	1.43	1.2	1.6	1.5	B:	0.06	0.11	0.09	0.086666667
Ww (m):	1.12	0.83	1.19	1.35	C:	0.09	0.16	0.1	0.116666667
Dw Avg:	0.10								
Dbf (m):	0.49								

	Electroseine setting	Start Time	End Time	Pass	Species	Total Length (mm)	Fork Length (mm)	Weight (g)	Comments
1	40Hz, 650V	56	859	1	BK	80	78		Additional fish visualized but not captured: BK = 5 large & 10 small AE = 3
2					BK	90	88		
3					BK	82	80		
4					BK	135	131		
5					BK	39	37		
6					BK	40	39		
7					BK	119	118		
8					BK	82	19		
9					BK	37	35		
10					BK	94	90		
11					BK	140	136		
12					BK	148	144		
13					BK	93	90		
14					BK	99	95		
15					BK	135	130		
16					BK	75	73		
17					BK	183	179		
18					BK	91	88		
18					BK	28	27		
20					BK	31	29		
21					BK	40	37		
22					BK	40	38		
23					BK	32	30		
24					BK	38	36		
25					BK	39	37		
26					BK	34	32		
27					BK	36	34		
28					BK	34	32		
29					BK	44	42		
30					BK	40	39		
31					AE	230			
32					AE	285			

Effort (sec)		Species	Total No. Caught:	Fish / 100m ²	Total Weight Caught	Biomass / 100m ²
1st Pass Effort (sec):	803	Brook Trout	30	5.5	0	0
2nd Pass Effort (sec):	0	Rainbow Trout	0	0.0	0	0
3rd Pass Effort (sec):	0	Brown Trout	0	0.0	0	0
4th Pass Effort (sec):	0	Atlantic Salmon	0	0.0	0	0
Total Effort (sec):	803	Creek Chub	0	0.0	0	0
		Yellow Perch	0	0.0	0	0
Surveyed Area (m²): length	543.693	Smallmouth Bass	0	0.0	0	0
Total Fish / 100m²: (100 / sq)	5.9	Banded Killifish	0	0.0	0	0
CPUE 1st Pass (fish/100sec)	0.1	Brown Bullhead	0	0.0	0	0
Total CPUE (fish/100sec): tot	4.0	White Sucker	0	0.0	0	0
		Eel	2	0.4	0	0
Totals :			32	5.9	0	0

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Electroseine Survey Data Form



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Project: Spicer Quarry - EA
Watershed: Ray Br-Annapolis **Site Description:** Ray Brook, upstream of Spicer Quarry access road. GPS track: Sp EF2
Site: Beaconsfield, Ann.Co.
UTM: 20T 311732 4966745
Date: 18/6/2019 **Water Temp °C:** 10.5
Survey Length (m): 314 **Air Temp °C:** 20
pH: 7.71 **Conductivity:** 132 uS/cm
DO: 103% **DO:** 11.5 mg/L

Avg.'s	A:	B:	C:	Dw (m):	1/4	1/2	3/4	Individual Dw _{avg} (m)	
Dbf (+m):	0.31	0.31	0.35	0.28	A:	0.05	0.04	0.04	0.043333333
Wbf (m):	1.85	1.25	2.05	2.25	B:	0.03	0.08	0.04	0.05
Ww (m):	1.15	0.91	0.94	1.6	C:	0.05	0.01	0.08	0.046666667
Dw Avg:	0.05								
Dbf (m):	0.36								

Electroseine setting	Start Time	End Time	Pass	Species	Total Length (mm)	Fork Length (mm)	Weight (g)	Comments
1	40Hz, 650V	859	1230	1 BK	90	88		Additional fish visualized but not captured:
2				BK	137	133		BK = 4 large & 10 small
3				BK	32	31		
4				BK	135	132		
5				BK	126	123		
6				BK	85	82		
7				BK	131	128		
8				BK	85	83		
9				BK	93	90		
10				BK	93	90		
11				BK	73	70		
12				BK	104	100		
13				BK	136	134		
14				BK	105	102		
15				BK	35	32		
16				BK	35	33		
17				BK	35	34		
18				BK	33	31		
18				BK	30	27		
20				BK	30	28		
21				BK	33	31		
22				BK	29	27		
23				BK	35	32		
24				BK	33	31		
25				BK	33	31		
26				BK	35	33		
27				BK	33	31		
28				BK	37	35		
29				BK	32	30		
30				BK	26	25		
31								
32								

Effort (sec)		Species	Total No. Caught:	Fish / 100m ²	Total Weight Caught	Biomass / 100m ²
1st Pass Effort (sec):	371	Brook Trout	30	8.3	0	0
2nd Pass Effort (sec):	0	Rainbow Trout	0	0.0	0	0
3rd Pass Effort (sec):	0	Brown Trout	0	0.0	0	0
4th Pass Effort (sec):	0	Atlantic Salmon	0	0.0	0	0
Total Effort (sec):	371	Creek Chub	0	0.0	0	0
		Yellow Perch	0	0.0	0	0
Surveyed Area (m ²): length	361.1	Smallmouth Bass	0	0.0	0	0
Total Fish / 100m ² : 100 / sq	8.3	Banded Killifish	0	0.0	0	0
CPUE 1st Pass (fish/100sec)	0.3	Brown Bullhead	0	0.0	0	0
Total CPUE (fish/100sec): tot	8.1	White Sucker	0	0.0	0	0
		Eel	0	0.0	0	0
Totals :			30	8.3	0	0

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Electroseine Survey Data Form



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Project: Spicer Quarry - EA
Watershed: Ray Br-Annapolis **Site Description:**
Site: Beaconsfield, Ann.Co. Outflow channel from Wetland 1. GPS track:
UTM: 20T 311635 4967760 Sp EF3
Date: 18/6/2019 **Water Temp °C:** 12.7
Survey Length (m): 235 **Air Temp °C:** 20
pH: 7.5 **Conductivity:** 49 uS/cm
DO: 45% **DO:** 4.6 mg/L

	Avg.'s	A:	B:	C:	Dw (m):	1/4	1/2	3/4	Individual Dw _{avg.} (m)
Dbf (+m):	0.26	0.23	0.29		A:	0.04	0.09	0.09	0.073333333
Wbf (m):	1.43	1.42	1.43		B:	0.07	0.14	0.09	0.1
Ww (m):	0.95	1.15	0.75		C:				
Dw Avg:	0.09								
Dbf (m):	0.35								

	Electroseine setting	Start Time	End Time	Pass	Species	Total Length (mm)	Fork Length (mm)	Weight (g)	Comments
1	40Hz, 750V	1230	1484	1	Nil				No fish caught or visualized over entire reach.
2									7 Wood frogs observed
3									
4									Good quality habitat: >90% canopy closure,
5									abundant instream wood and pool habitat.
6									Channel small and discontinuous
7									Channel over North Mountain escarpment
8									represents a barrier to fish movement
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32									

Effort (sec)		Species	Total No: Caught:	Fish / 100m2	Total Weight Caught	Biomass / 100m ²
1st Pass Effort (sec):	254	Brook Trout	0	0.0	0	0
2nd Pass Effort (sec):	0	Rainbow Trout	0	0.0	0	0
3rd Pass Effort (sec):	0	Brown Trout	0	0.0	0	0
4th Pass Effort (sec):	0	Atlantic Salmon	0	0.0	0	0
Total Effort (sec):	254	Creek Chub	0	0.0	0	0
Surveyed Area (m²):	223.25	Yellow Perch	0	0.0	0	0
Total Fish / 100m²:	0.0	Smallmouth Bass	0	0.0	0	0
CPUE 1st Pass (fish/100sec):	0.4	Banded Killifish	0	0.0	0	0
Total CPUE (fish/100sec):	0.0	Brown Bullhead	0	0.0	0	0
		White Sucker	0	0.0	0	0
		Eel	0	0.0	0	0
Totals :			0	0.0	0	0

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Electroseine Survey Data Form



Project: Spicer Quarry - Environmental Assessment
Watershed: Ray Br-Annapolis **Site Description:**
Site: Beaconsfield, Ann.Co. Outflow channel from Wetland 3. GPS track: Sp EF4
UTM: 20T 311502 4968125
Date: 18 / 06 / 19 **Water Temp °C:** 15.8
Survey Length (m): 210 **Air Temp °C:** 20
pH: 6.94 **Conductivity:** 55 uS/cm
DO: 61% **DO:** 6.0 mg/L

	Avg.'s	A:	B:	C:	Dw (m):	1/4	1/2	3/4	Individual Dw _{avg.} (m)
Dbf (+m):	0.17	0.18	0.16		A:	0.29	0.37	0.42	0.36
Wbf (m):	2.08	1.7	2.45		B:	0.26	0.26	0.13	0.216666667
Ww (m):	1.48	1.41	1.55		C:				
Dw Avg:	0.29								
Dbf (m):	0.46								

	Electroseine setting	Start Time	End Time	Pass	Species	Total Length (mm)	Fork Length (mm)	Weight (g)	Comments
1	40Hz, 750V	1230	1484	1	Nil				No fish caught or visualized over entire reach.
2									9 Wood frogs & 2 Green frogs observed
3									
4									Good quality habitat: >90% canopy closure,
5									abundant instream wood and pool habitat.
6									Channel small and discontinuous
7									Channel over North Mountain escarpment
8									represents a barrier to fish movement
9									
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32									

Effort (sec)		Species	Total No. Caught:	Fish / 100m2	Total Weight Caught	Biomass / 100m ²
1st Pass Effort (sec):	254	Brook Trout	0	0.0	0	0
2nd Pass Effort (sec):	0	Rainbow Trout	0	0.0	0	0
3rd Pass Effort (sec):	0	Brown Trout	0	0.0	0	0
4th Pass Effort (sec):	0	Atlantic Salmon	0	0.0	0	0
Total Effort (sec):	254	Creek Chub	0	0.0	0	0
Surveyed Area (m²): length	310.8	Yellow Perch	0	0.0	0	0
Total Fish / 100m²: (100 / su)	0.0	Smallmouth Bass	0	0.0	0	0
CPUE 1st Pass (fish/100sec)	0.4	Banded Killifish	0	0.0	0	0
Total CPUE (fish/100sec): tot	0.0	Brown Bullhead	0	0.0	0	0
		White Sucker	0	0.0	0	0
		Eel	0	0.0	0	0
Totals :			0	0.0	0	0

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