

Date: October 22 2019

To: Laureen Janusz & Ian Kitch
Sustainable Development – Fisheries Branch



Summary of Activities

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Subject: 2019 Zebra Mussel Early Detection Program

Table: 2019 Substrate Sampler Summary

Lake	Sampler Location (UTM)	Date Installed	Date Removed	Water (°C)	Depth (m)	Secchi (m)	Water Surface to underside of dock (m)	Depth from Sampler to Bottom(m)	Comments
Beautiful Lake	14U 361406 5713741	2019-06-03	2019-09-17	18.5	1	>1	0.24	0.5	Quick link failure - retrieved off lake bottom
Bell Lake	14U 348061 5823467	2019-07-11	2019-10-09	20	0.9	>0.9	0.2	0.45	No mussels observed
Beaver Lake	14U 373600 5740420	2019-06-04	2019-09-18	18.2	1	>1	0.17	0.5	No mussels observed
Child's Lake (campground)	14U 353228 5716975	2019-05-30	2019-09-17	14	1.8	>1.8	0.16	0.5	No mussels observed
Child's Lake(main beach)	14U 353397 5716162	2019-05-30	2019-09-17	14	1.3	>1.3	0.16	0.5	No mussels observed
East Blue Lake (day dock)	14U 367563 5718856	2019-06-03	2019-09-18	17.5	1.1	>1.1	0.2	0.55	No mussels observed
Gull Lake	14U 357334 5714006	2019-05-30	2019-09-17	18	1.24	>1.24	0.23	0.6	No mussels observed
Glad Lake	14U 369140 5739604	2019-06-05	2019-09-18	14.6	0.75	>0.75	0.1	0.4	No mussels observed
Laurie Lake	14U 356343 5714327	2019-05-30	2019-09-16	18	1.48	>1.48	0.2	0.75	Cable failure - retrieved off lake bottom
Marge Lake	14U 366948 5721584	2019-06-03	2019-09-18	18.9	1	>1	0.14	0.5	No mussels observed
North Steeprock Lake	14U 339670 5832061	2019-07-11	2019-10-09	20	1.6	>1.6	0.24	0.8	No mussels observed
Perch Lake	14U 368537 5723830	2019-06-04	2019-09-18	17.7	1.58	>1.58	0.15	0.8	No mussels observed
Singush Lake (public)	14U 375269 5718591	2019-06-03	2019-09-17	18.2	1.18	>1.18	0.26	0.6	No mussels observed
Singush Lake (Sawchuks)	14U 374616 5718433	2019-06-03	2019-09-17	18.3	1.2	>1.2	0.18	0.6	No mussels observed
Spray Lake	14U 364690 5733241	2019-06-04	2019-09-17	17.7	1	>1	0.1	0.5	No mussels observed
Two Mile Lake(t-dock)	14U 368325 5737864	2019-06-04	2019-09-17	16.9	3.2	2.75	0.15	1.6	No mussels observed
Wellman Lake(east launch)	14U 369290 5741864	2019-06-05	2019-09-17	14.7	1	>1	0.17	0.5	Sampler tampered with - retrieved off lake bottom
West Blue Lake	14U 366519 5720431	2019-06-03	2019-09-17	18.7	2.5	>2.5	0.05	1.3	No mussels observed
Whitefish Lake	14U 323815 5801671	2018-05-25	2019-10-17	15	0.7m	>0.7m	0.23	0.35	No mussels observed

Summary: In 2019 all 19 samplers were retrieved. Upon preliminary inspection, no mussels were observed on any of the samplers. Our fastening method was improved through using heavier cable and hardware and the use of lighter weights. Retrieval rate was up significantly from 2018, where 6 samplers were missing and 3 were retrieved off the bottom. Minor adjustments are planned for 2020.