

Since 1996

MEMORANDUM
 15.12.11

RE: CHIPPEWA CREEK FISH SALVAGE OPERATION

Fish salvage operation was conducted as per Section 3.3 DFO Authorization #SU-07-5625.2 (North Bay-Mattawa Conservation Authority). Phase 1 occurred from 50 m upstream from John Street Bridge to 75 m downstream of bridge. Phase 2 occurred from 250 upstream of John Street Bridge to the check dam where phase 1 ended. A brief description of fish salvage results follows.

Phase 1: November 22, November 24 and December 8, 2011.

On November 22, the Phase 1 salvage area was fished at varying water levels as adjustments were made in an attempt to dewater. On this day, 3,543 shocker-seconds (at 150 V, 80 Hz) were spent at this site and yielded the following catch:

Common Name	Latin Name	Number Relocated
Mottled sculpin	<i>Cottus bairdi</i>	9
Eastern blacknose dace	<i>Rhinichthys atratulus</i>	29
White sucker	<i>Catostomus commersonii</i>	2
Iowa darter	<i>Etheostoma exile</i>	1
Burbot	<i>Lota lota</i>	1
Logperch	<i>Percina caprodes</i>	1
Creek chub	<i>Semotilus atromaculatus</i>	1
Longnose dace	<i>Rhinichthys cataractae</i>	1

Fish were relocated in suitable habitat downstream of the construction site, beyond a physical barrier to fish passage.

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On November 24, the area was mostly dewatered during which time 3 electrofishing passes (3,020 shocker-seconds at 150 V, 80 Hz) were made. No fish were observed during a visual inspection after the third pass. The following catch was observed and relocated in suitable habitat downstream of the construction site:

Common Name	Latin Name	Number Relocated
Mottled sculpin	<i>Cottus bairdi</i>	6
Eastern blacknose dace	<i>Rhinichthys atratulus</i>	11
Burbot	<i>Lota lota</i>	1
Longnose dace	<i>Rhinichthys cataractae</i>	14
Logperch	<i>Percina caprodes</i>	1
Lamprey spp.	<i>Ichthyomyzon spp.</i>	5

On December 8, a final salvage attempt yielded one longnose dace and one white sucker.

Phase 2: December 14, 2011

Two electrofishing passes were made as the site was being dewatered:

1st pass: 2155 shocking seconds; settings – 80 Hz/150 Volts

2nd pass: 613 shocking seconds; settings – 80 Hz/150 Volts

Once the site was somewhat dewatered, lampreys were hand-picked from the exposed substrate for 1.5 hours. Lamprey of all sizes were captured from ~ 2 cm TLEN with translucent bodies to 15+ cm adults.

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Fishes captured by electrofishing and hand-picking:

Common Name	Latin Name	Number Relocated
Lamprey spp.	<i>Ichthyomyzon spp.</i>	636
Common white sucker	<i>Catostomus commersonii</i>	30
Longnose dace	<i>Rhinichthys cataractae</i>	9
Creek chub	<i>Semotilus atromaculatus</i>	44
Common shiner	<i>Notropis cornutus</i>	4
Mottled sculpin	<i>Cottus bairdi</i>	23
Blacknose dace	<i>Rhinichthys atratulus</i>	103
Finescale dace	<i>Chrosomus neogaeus</i>	1
Burbot	<i>Lota lota</i>	2
Northern redbelly dace	<i>Chrosomus eos</i>	2
Johnny Darter	<i>Etheostoma nigrum</i>	3
Logperch	<i>Percina caprodes</i>	3

Fish were relocated in suitable habitat downstream of the construction site, beyond a physical barrier to fish passage.

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