

MITIGATION MEASURES

1. To protect local fish populations during their spawning and nursery periods, no in-water work or activity is permitted from March 15 –July 15 <https://www.ontario.ca/document/water-work-timing-window-guidelines>
2. The rubble mound removal and pile/anchor installation are likely to cause significant disturbance in fish habitat, a turbidity curtain must be installed by the contractor to isolate the in-water work site and prevent the spread of suspended sediment.
 - a. Follow the Ontario Provincial Standard for turbidity curtains.
<http://www.raqsb.mto.gov.on.ca/techpubs/OPS.nsf/OPSHomepage>
3. The location(s), types and sizes of turbidity curtains shall be accepted by PCA prior to installation.
4. Flootation devices should provide greater than 50mm of freeboard.
5. Curtains should be overlapped by at least 75mm at the ends and should be sewn or threaded to form a continuous barrier.
6. Contractor to inspect the effectiveness of the sediment and erosion control measures daily during the course of the project. Ensure they are functioning properly and maintain as required for the duration of the project.
7. In the event that the sediment and erosion control measures are not functioning properly, the contractor will order work to be stopped. No further work shall be carried out until the sediment and erosion control measures are adjusted to address the problem.
8. Wait for the water to clear before removing erosion control devices.
9. It is recommended that turbidity curtains be installed, where possible, in a manner that pushes or excludes fish and turtles so salvage is not necessary (i.e. start along the shore and slowly move out).
10. Schedule work to avoid wet, windy and rainy periods (and heed weather advisories) that may result in high flow volumes and/ or increase erosion and sedimentation;
11. Rock that is removed from the rubble mound, if possible, should be dispersed along the sides of the pile cribs to create fish habitat.
12. Prior to the removal of the existing dock, contractor to examine the work site for any reptiles or amphibians using the site. Contact Resource Conservation staff in the event that animals are not leaving the site on their own.
13. Any debris resulting from the work is to be removed from the area and disposed of at an appropriate facility.
14. All efforts must be made to minimize disturbance caused by barges used in shallow water. Wherever possible manoeuvring of barges in shallow water must be done without the use of a backhoe. All efforts must be made to avoid prop scour and grounding out of the barge.
15. On-site personnel must be made aware of wildlife concerns specifically the potential of SAR to enter the work area depending on the time of year of the project. Should a SAR enter the area, all work must stop and Resource Conservation staff notified.
16. Given the beach shoreline near the work area, there is the potential for turtle nests. Any known turtle nest locations will be clearly identified by Resource Conservation staff. No work is to occur in these areas.
17. Disturbance of vegetation (including trees and shrubs) along the shoreline must be kept to a minimum. Any vegetation intended to be removed must be first assessed by Resource Conservation staff.
18. Any debris resulting from the work (including all concrete waste) is to be collected in a plastic lined container and removed from site and disposed of at an appropriate facility. The site is to be left neat upon completion of the project.

19. Whenever possible, operation of machinery must be done from a barge or on land above the high water mark in a manner that minimizes disturbance to the shoreline and lake bed. The high water mark be identified by Resource Conservation (Parks Canada).
20. Use untreated materials (e.g. cedar, plastic, etc.) or the most environmentally friendly pressure-treated wood available for decking and supports that will be submerged in water. See current PCA Treated Wood Management Standard and Guide, this will this be provided.
21. Do not cut, seal or stain lumber near water. Environmentally friendly products must be used to seal and stain lumber. Lumber must be completely dry before being used near water.
22. Use heavy equipment and machinery that is well maintained and where possible use non-petroleum vegetable based hydraulic fluid.
23. Equipment is not to be left idling unnecessarily.
24. Equipment must be properly tuned, clean and free of contaminants, in good working order, free of leaks (e.g. fuel, oil, grease, hydraulic fluid).
25. If any deleterious substances are being used or stored on site, including gas or oil, a spill containment kit must be available and capable of handling the entire quantity of fuel on site. Refueling must take place on an impermeable surface. All measures and procedures are to adhere to provincial and federal regulations; report all spills to the Ontario Spill Action Center (1-800-268-6060) and notify designated GBI (Georgian Bay Islands National Park) staff and departmental representative (Project Manager).
26. Ensure all construction equipment from outside the park is clean and free of invasive species seeds.
27. Where possible, work should be completed during low visitation to minimize impacts to visitors. The site must be closed off to the public with caution/danger take, barriers and fencing as required during construction.
28. The contractor is responsible for site security while working on Parks Canada property.
29. The contractor is responsible for their own safety while working on Parks Canada property, and must comply with all applicable safety regulations set out in the Provincial and Federal requirements.
30. Any Parks Canada staff entering the work site, must wear the appropriate PPE and follow appropriate Safe Work Practices.
31. Follow any additional mitigations from MNR and DFO as set in the in-water work permit and Letter of Advice.
32. The relevant sections to this project, of the Environmental Standards and Guidelines Document for Ontario Waterways (2017) should be reviewed by the contractor prior to any physical work to gain a full understanding of Parks Canada standards with regards to in-water work projects. This document will be made available by Parks Canada staff.
33. Resource Conservation will provide a briefing to the contractor before beginning work on the project to explain all of these mitigation measures in detail.