



STATEMENT OF WORK

Title – Replacement of Existing Monorail and Components, Big Creek Sea Lamprey Barrier Site

1. Scope

- 1.1. Background – The Department of Fisheries and Oceans-Sea Lamprey Control Centre (DFO-SLCC) operates a trap-and-sort fishway at the Big Creek site (Figure 1., approximate coordinates 42.758869°N, 80.503836°W) during the sea lamprey spawning season (mid-March to mid-July). The existing steel traps are being replaced with traps fabricated using a combination of steel and aluminium alloys to improve manual operation. Subsequently the existing monorail, fishway grating and hoist need to be replaced to ensure compatibility with the new trap, in terms of operating design load. The design and construction drawings for the new monorail, fishway grating, electrical hoist and accessories have been completed and DFO-SLCC is proposing to proceed with construction.
- 1.2. Objective – To fabricate and replace the existing monorail, fishway grating and its components as specified in approved design drawings.

2. Reference Documents

Detailed drawings of the proposed structure and accessories are provided.

3. Requirements

- 3.1. Scope of work – The successful bidder will obtain materials, and fabricate and install the monorail and its components, including the supporting system, foundation connections and fishway grating covers, as specified in the approved drawings. The work includes supply and installation of electric and manual backup chain hoists and accessories. Materials and installation requirements are specified in the design drawings. The successful bidder should contact the DFO-SLCC Representative regarding any discrepancies in the design drawings during fabrication or construction. The Design Engineer will conduct a final inspection at each stage of the work (supply, fabrication



Fisheries and Oceans
Canada

and construction) to confirm that design considerations are being met. DFO-SLCC has a separate contract with the Design Engineer for providing these services.

3.2. Existing Resource Material– Design drawings and specifications for the new monorail, hoist and fishway covers are provided.

4. Completion Date

All work, including supply, fabrication and construction, is to be completed by August 31, 2017.

5. Environmental Conditions

While on site, the successful bidder will adhere to the following measures and procedures during construction to mitigate any potential impacts to the environment, fish and their habitat:

- 5.1. All material used in the project shall be free of deleterious substances as defined under the Fisheries Act.
- 5.2. All material used in the project shall be delivered, stored and placed in such a manner as to prevent introduction of deleterious substances into the river.
- 5.3. All equipment used for the project shall be in good repair and free from leaks.
- 5.4. Servicing and fuelling of equipment shall be done off-site.
- 5.5. Any equipment developing a leak shall be removed from the site immediately. Any spill shall be reported to the Ministry of the Environment and Climate Change, and cleaned up immediately. Contractor's cleanup plan for spills of any contaminated materials will be reviewed and approved before starting removal work. While onsite, the contractor must supply and be ready to use all necessary spill response equipment.
- 5.6. Care shall be taken to prevent damage to the grounds and property and minimize the footprint associated with the work.
- 5.7. Components of the existing monorail and any refuse or deleterious materials including trap lids and hoist will be removed and transported to the approved waste disposal site.
- 5.8. Cleanup of site after the work will be completed, including removal of any refuse and slash from the site.



Fisheries and Oceans
Canada

- 5.9. All disturbed soils shall be stabilized with seed and mulch.
- 5.10. Fires and the burning of rubbish on site is permitted only when approved by the Departmental Representative.
- 5.11. When fires or burning is permitted, prevent staining or smoke damage to structures, materials or vegetation, which is to be preserved. Restore, clean and return to new condition stained or damaged property.
- 5.12. Provide supervision, attendance and fire protection measures as directed by Departmental Representative.
- 5.13. Do not bury refuse and waste materials on site.
- 5.14. Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.

6. Site Safety

The contractor will identify potential hazards at the site and prepare a job safety plan to mitigate hazards while work is ongoing. Potential hazards may include:

- 6.1. Deep, turbulent water with fast currents adjacent to the work site;
- 6.2. Presence of overhead wires, and;
- 6.3. Tripping hazard when working on uneven ground.

In addition to above, the following precautions shall be taken during removal, installation and restoration work:

- 6.4. All work will be done to minimize loss of materials into river;
- 6.5. A silt fence will be used, if required;
- 6.6. Workers will be required to wear hard hats, safety boots and safety glasses at all times;
- 6.7. DFO-SLCC will obtain line locates/ buried utilities prior to starting work, if required.

7. Phases of Work

The work will be completed in one phase, consisting of the removal of the existing monorail, hoist and trap covers, and installation of replacements as specified in the drawings.



Fisheries and Oceans
Canada

8. Deliverables

- 8.1. Job Safety Plan;
- 8.2. Construction schedule; and
- 8.3. Restoration of disturbed soils by placement of seed and mulch.

9. Submittals

Unless otherwise noted, make submittals to the Department Representative for review for each stage of supply and installation work.

- 9.1. Make submittals with reasonable promptness and in an orderly sequence to avoid any delay in the work. Failure to submit in ample time is not considered cause for an extension of the contract time, and no claim for extension by reason of such default will be allowed;
- 9.2. Do not proceed with work affected by submittals until review is complete;
- 9.3. The Contractor's responsibility for errors and omissions for providing the specified products and for the construction of the work in accordance with the contract documents is not relieved or diminished in any way by the Departmental review of submittals.

10. Departmental Effort

An employee assigned by DFO-SLCC will act as a Departmental Representative on site to coordinate design engineer and construction contractor, and to monitor safety requirements during construction of the project.

11. Time Schedule for Completion of Each Stage of the Work

The successful bidder should provide schedule for mobilisation, supply, installation and restoration. On site installation and restoration work will only be allowed after completion of sea lamprey spawning run (mid-July). All work should be completed by August 31, 2017.

**12. Insurance**

The proposed site is on privately-owned property. The successful bidder will be required to carry general liability insurance for working on private land.

13. Codes and Standards

- 13.1. All work is to be done to Canadian and Ontario Provincial Codes and Standards. In the case of a conflict or discrepancy between the contract documents and the governing codes and standards, the more stringent requirements apply.
- 13.2. Unless the edition number and date are specified, the successful bidder will adhere to the manufacturer's and published codes, standards, and specifications identified in the latest edition published by the issuing authority, current at the date of tender closing.
- 13.3. Reference standards and specifications are quoted in these specifications to establish minimum standards. Work in quality exceeding these minimum standards will be deemed in conformance with the contract.
- 13.4. Where reference is made to a manufacturer's direction, instruction, or specification, it is deemed to include full information on storing, handling, preparing, mixing, installing, erecting, applying, or other matters concerning the products pertinent to their use and their relationship to products with which they are incorporated.
- 13.5. Where reference is made to regulatory authorities, it includes all authorities who have, within their constituted powers, the right to enforce the laws of the Place of Work.

14. Schedules Submission

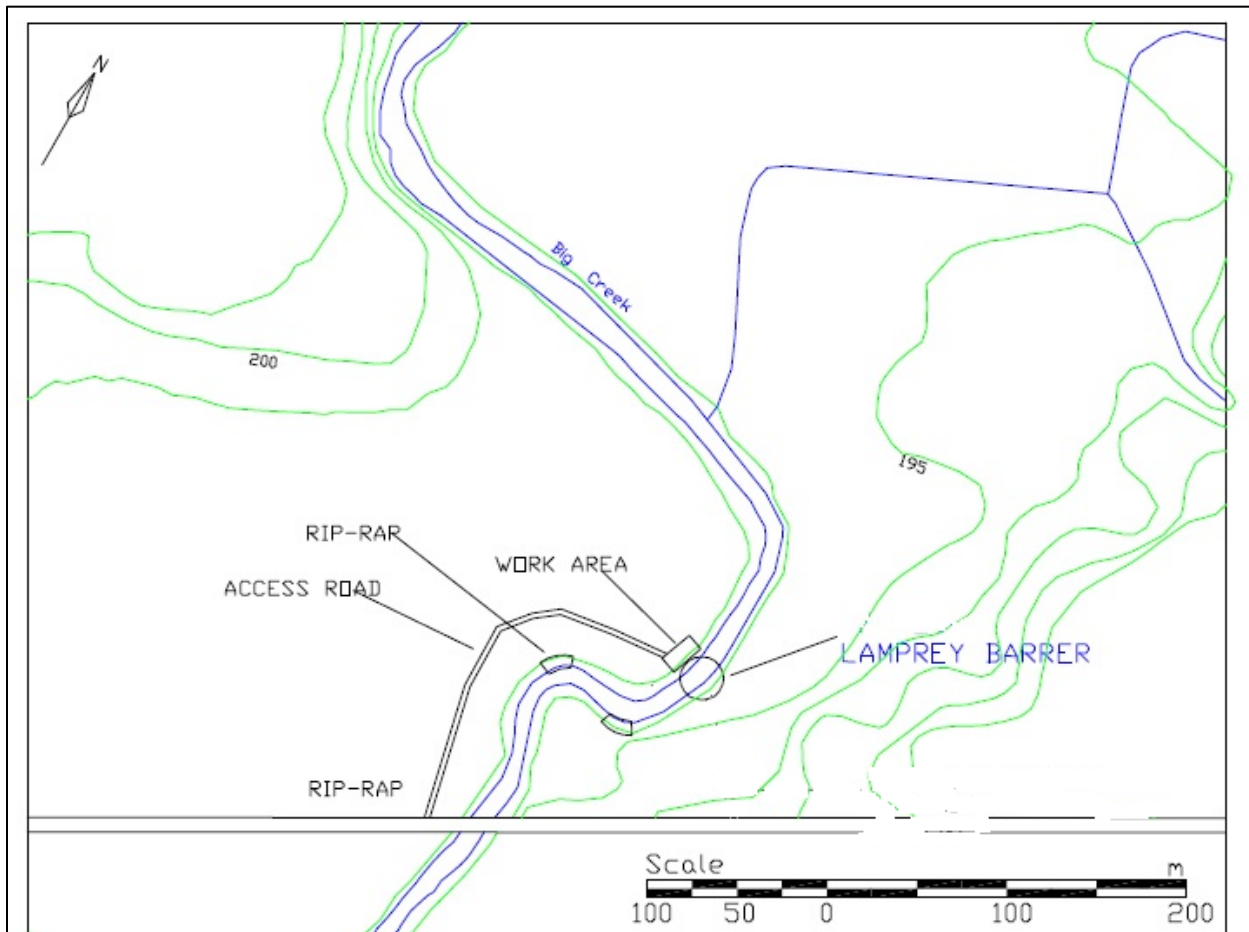
- 14.1. Submit schedules within seven days of the written notification of tender acceptance;
and
- 14.2. If the progress of any part of the construction falls behind schedule, immediately inform to the Departmental Representative.



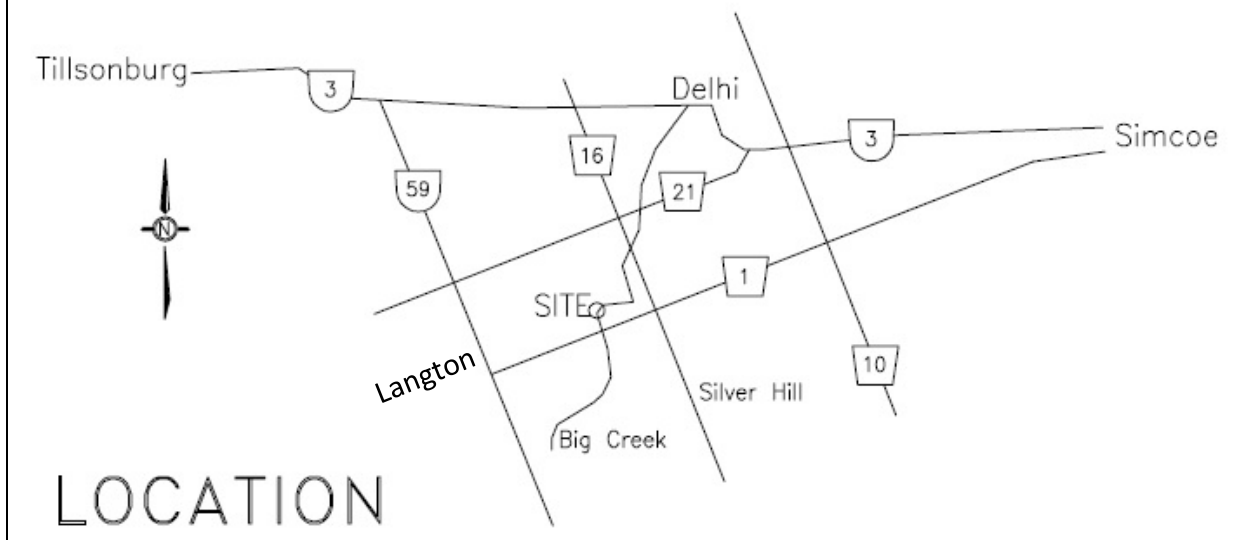
15. Location of the Work

Big Creek Sea Lamprey Barrier, near McDowell Road East (Highway 1) bridge, Langton, ON, as shown in Figure 1., approximate Latitude and Longitude: 42.758869°N, 80.503836°W.

Figure 1. Big Creek sea lamprey Barrier location (see below on next page)



SITE PLAN



LOCATION



Fisheries and Oceans
Canada

END