APPENDIX 1 REGISTRATION FORMAT

This format outlines the nature and sequence of the information required in an Environmental Assessment Registration. The proponent should reproduce the text of each section as it appears below, adding the required information. The information should be brief but comprehensive. The original (including attached large-scale maps) plus a minimum of 10 paper copies and 1 digital copy (including maps) should be submitted. See Appendix 2 for further information on the submission of computerized copies of documents.

NAME OF UNDERTAKING

PROPONENT:

(i) Name of Corporate Body: World Wildlife Fund Canada

(ii) Address: 400-410 Adelaide St W, Toronto, ON M5V 1S8

(iii) Chief Executive Officer:
Name: Megan Leslie
Official Title: President & Chief Executive Officer
Address: 400-410 Adelaide St W, Toronto, ON M5V 1S8
Telephone No: 416-484-7703

(iv) Principal Contact Person for purposes of environmental assessment:
Name: Chelsea Boaler
Official Title: Specialist, Conservation and Fisheries
Address: 15 White's Road, Hughes Brook, NL, A2H 4A1
Telephone No.: 709-701-0310

THE UNDERTAKING

(i) Name of the Undertaking: Arctic char and Atlantic salmon habitat restoration in Parker's River.

(ii) Purpose/Rationale/Need for the Undertaking: Cumulative effects on habitat of the southernmost population of anadromous Arctic char that has contributed to the accumulation of sediment at the mouth of the river/delta where mass fish die-offs have occurred. The project aims to restore biological conditions necessary for the survival of key life stages of these species and maintain the persistence of populations in Parker's River. Due to this need, the project plans to implement excavation in the lower river to create increases in pool volume and pool depth that has been lost due to recent flooding and sediment deposition.

DESCRIPTION OF THE UNDERTAKING

Under Sections (i), (ii), (iii) and (iv) below, the proponent shall provide complete information concerning the preferred choice of location, design, etc., together with additional information on any alternatives which may have been considered and rejected, but which may still be regarded as viable. Reasons for the rejection of those alternatives should be included.

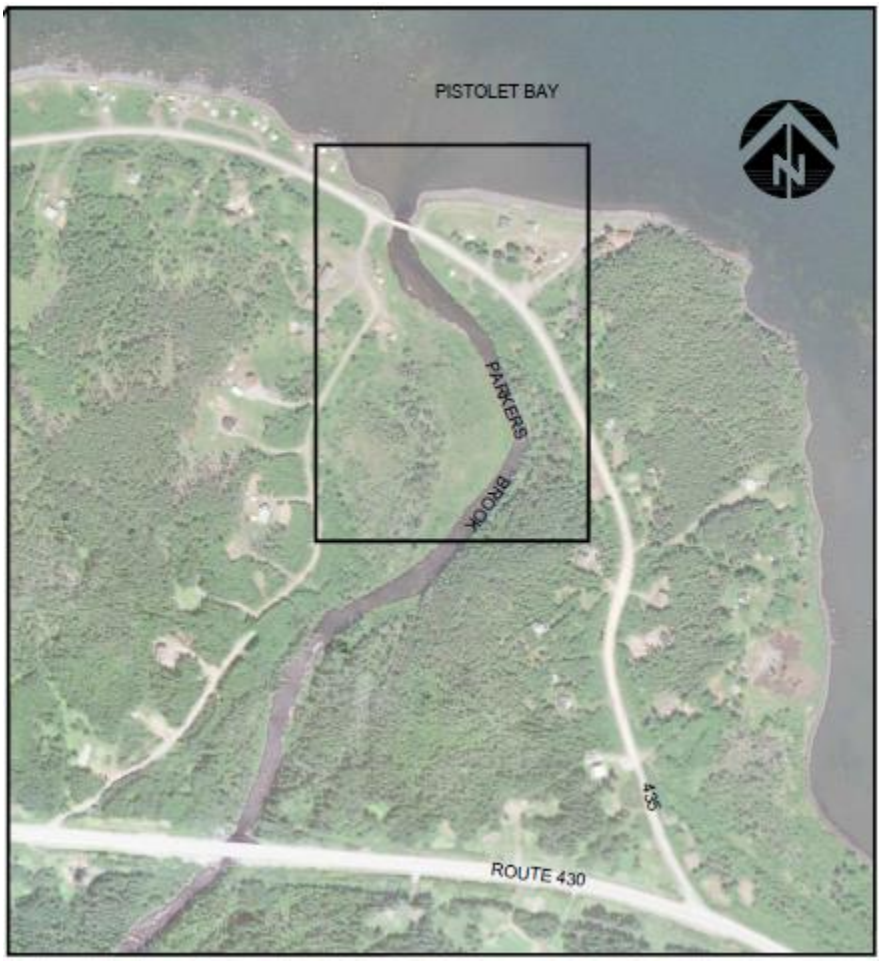
(i) Geographical Location:

- Provide a description of the proposed site, including boundaries if possible.

  On the Great Northern Peninsula of Newfoundland, near Cook's Harbour, Parker's Brook flows into Pistolet Bay and supports a small localized population of Arctic charr (*Salvelinus alpinus*). This population is the southernmost anadromous charr population in the province (Dempson 1982 and references therein) and is/has been subjected to several cumulative threats including overfishing, climate change, and adverse changes in the stream morphology of Parker's Brook, the species' principal freshwater habitat. The pools outlined below indicate where proposed restoration activities will take place.

- Attach large scale (e.g. 1:12,500) original base map(s) and/or recent air photos clearly indicating the site location relative to existing communities and transportation facilities, and showing the proposed route of access. The National Topographic Survey edition should be affixed to the map(s).

See access to the project site via existing routes in the image below. Proposed access to the restoration work is shown on the image above:



(ii) Physical Features:

- Describe the major physical features of the undertaking, including buildings, other large structures, roads, pipelines, transmission lines, marine facilities, etc.

  The major undertakings include dredging and bank stabilization in the river channel. No other major physical features will be erected. The access road south of the river may be upgraded to allow for heavy equipment if necessary, though no new roads will be constructed.

- Provide the size of the area to be affected by the undertaking.

  4,225 m^2

- Attach an artist's conceptual drawing, if available.

See attached design drawings (Appendix A).

- Describe the physical and biological environments within the area potentially affected by the project, e.g. topography, water bodies, vegetation, wildlife species, fish etc.

  The Parker's River flows north through steep terrain until it empties into Pistolet Bay on the Great Northern Peninsula of Newfoundland. The primary species of interest at this location are Atlantic salmon and Arctic char. Please see attached design technical memorandum for more details (Appendix B: Parker's River Basis of Design Technical Memorandum).

(iii) Construction (if applicable): N/A (see **Operation** for full details)

- Provide the approximate total construction period (if staged, please list each stage and its approximate duration).
- Proposed date of first physical construction related activity on site.
- Describe the potential sources of pollutants during the construction period(s) including airborne emissions, liquid effluents and solid waste materials.
- Describe any potential causes of resource conflicts.

(iv) Operation:

- Describe how the undertaking will operate.

  The goal of this project is to restore and enhance the mouth of Parker's River to improve salmon and charr survival during migration. Excavation will occur first to create increases in pool volume and pool depth that has been lost due to recent flooding and sediment deposition. Large wood will placed in the channel banks at the location of the new pools to provide critical cover habitat for the fish. Following channel construction, with the access and staging areas will be revegetated with native seed and trees and shrubs.

- Estimated period of operation, if not a permanent facility.

  October 1 - October 30, 2021. We propose to begin the work after the fish migration, likely in early October.

- Describe all potential sources of pollutants during the operating period, including airborne emissions, liquid effluents and solid waste materials.

  Construction equipment, including an excavator and dump truck, will be working within, and adjacent to, the Parker's River and Pistolet Bay. There is always the potential that construction equipment could leak fuel, oil, lubricant, or other liquids. The project specifications will require that the contractor develop a spill prevention plan and have appropriate clean up materials on site during the work in case of a spill. The contractor will be required to provide portable bathroom facilities to address solid waste during the construction period.

- Describe any potential causes of resource conflicts.

  This project is a river restoration project design to improve in-channel habitat conditions for critical fish species. Because the work is in the river, it necessarily impact natural resource areas, including river bottom and river bank. The benefits of the project to the natural resources will more than compensate for the short-duration impacts during construction.

  Sources of resource conflict with other river-users for this project is considered negligible. This is a community-lead project where planning and monitoring has been ongoing for 2 years. The work to be completed has been requested by multiple community groups and individuals, and official project partners within the community include St. Anthony Basin Resources Incorporated (SABRI), Fisheries and Oceans Canada (DFO), the Save Our Char Committee (SOCC), and the Development Association for the region.

(v) Occupations:

- Estimate the number of employees required for the construction and operation of the project as well as the expected duration of employment.

  Expected Duration of Employment: 20 days
  Estimated Number of Employees (construction and operation): 4

- Provide an enumeration and breakdown of occupations anticipated for this undertaking according to the National Occupational Classification 2006 (http://www23.hrdc-drhc.gc.ca/2001/e/generic/welcome.shtml). This information is used to determine if any hazardous occupations are involved.

Occupation	**Number of Employees**
Construction Foreman	1
Equipment Operator	2
Truck Driver	1

- Identify what work will be carried out by direct hiring and/or contracting out.

  The construction contractor will complete the following work: water control, erosion and sediment control, excavation, removal of debris, large wood installation, site rehabilitation, and revegetation work.

- Identify how employment equity will be addressed relative to age and gender (for further information on gender equity, contact the Women's Policy Office at 709-729-5009).

Wherever possible, representation from different groups regarding age and gender will be included in employment. A respectful and equitable environment will be maintained throughout the undertaking of this project, and all employee input will be welcomed, respected, and considered.

(vi) Project Related Documents:

- Provide a bibliography of all project-related documents already generated by or for the proponent.

Nelson, Nick, Mike McAllister, and Mackenzie Butler. 2021. Phase 3 - Preliminary Basis of Design for Parker's Brook, Newfoundland. Technical Memorandum for World Wildlife Fund Canada, Cambridge, Massachusetts.

Nelson, Nick, Mike McAllister, Garrett Shear, and Mackenzie Butler. 2021. Parker's Brook Fish Enhancement Project Preliminary design plans for World Wildlife Fund Canada, Cambridge, Massachusetts.

- Provide one copy of any reports on environmental work already performed by or for the proponent.

The reports described above have recently been completed to describe the proposed work area, the proposed restoration actions, and to provide design drawings showing the restoration construction elements. In addition, WWF with Project Partners have begun a fish monitoring program at the mouth of the Parker's River. No reports have been completed to date, but this data is being actively collected.

APPROVAL OF THE UNDERTAKING

List the main permits, licenses, approvals and other forms of authorization required for the undertaking, together with the names of the authorities responsible for issuing them (e.g. federal government department, provincial government department, municipal council, etc.)

SCHEDULE: Indicate the earliest and latest dates when project construction could commence (assuming all approvals are in place). Briefly state the reasons for the selection of these dates.

The timeline for this project is from October 1 - 30, 2021. These dates have been approved by DFO to be outside the spawning window for Atlantic salmon and Arctic char in this system, and is within the funding period for Coastal Restoration Fund (see below), and within the construction season for the region.

FUNDING: If this project depends upon a grant or loan of capital funds from a government agency (federal, provincial or otherwise) provide the name and address of the department or agency from which funds have been requested. To determine whether cost recovery is applicable in accordance with the Cost Recovery policy, provide an estimate of the capital costs

of the project. Projects having capital costs in excess of $5 million will be subject to applicable cost recovery fees.

Funding has been secured for the October 1 - 30, 2021 timeline from DFO under Coastal Restoration Fund. Total cost estimated at $200,000.00.

17 June 2021 

Date **Signature of Chief Executive Officer**
Megan Leslie, President and CEO, WWF-Canada

The completed Registration and the digital and paper copies should be sent, together with a covering letter, to: Minister of Municipal Affairs and Environment PO Box 8700 St. John's NL A1B 4J6 Attention: Director of Environmental Assessment

APPENDIX 2
GUIDELINES FOR PREPARING COMPUTERIZED COPIES OF ENVIRONMENTAL ASSESSMENT DOCUMENTS

Section 3(1) of the Environmental Assessment Regulations authorizes the Minister to require submission of computerized documents. These guidelines are provided to assist proponents with the preparation of such documents.

- The proponent must ensure that all electronic documents are accurate, legible and formatted properly before submission.
- PDF format is preferred, but other format may be accepted.
- The content of the computer file(s) should be identical to the paper copy.
- If multiple files are required, each file should be labelled to reflect its order of appearance in the paper copy (e.g. Registration, Appendix 1 etc)
- For maps, choose a font size for labels and legends that is easily read on screen or in print.
- Present maps in horizontal format to facilitate reading on the screen.
- Label all maps, charts, graphs etc. horizontally.
- Hyperlink headings in Table of Contents (including lists of figures/tables etc) to body of document.
- Hyperlink from references in text to maps/appendices etc.
- Include a single file of the entire document and:
    - if there is a summary, include it as a separate file.
    - where the entire document is a large file, divide it into smaller files.
    - generally file size should not exceed 2-3 MB and no file should exceed 10 MB.
    - avoid numerous small files; instead group them into 2-3 MB file size.
    - for CD ROMs, include instructions for using the CD.