

## FISH COLLECTION PERMIT

### Fish Salvage

Amended September 12, 2024

File: 34770-20

ATS Project: 120106

Permit No.: FJ16-225327

Permit Holder: BC Hydro and Power Authority – Karen von Muehldorfer  
Suite 1100, 1055 Dunsmuir, 6<sup>th</sup> Floor  
Vancouver BC V7X 1V5

Authorized Persons: **See Appendix D**

Pursuant to section 19 of the *Wildlife Act*, RSBC 1996, Chap. 488, and section 18 of the Angling and Scientific Regulations, BC Reg. 125/90, the above named persons are hereby authorized to collect fish for scientific purposes from non-tidal waters subject to the conditions set forth in this Permit:

**Permitted Sampling Period: June 30, 2016 to December 31, 2024**

**Permitted Waterbodies: Peace Region – Peace River and tributaries (230)**

**Permitted Sampling Techniques: MT, SN, DN, EF, Hoop Nets, Fyke Nets (subject to permit terms and conditions)**

**Potential Species: See Appendix C (subject to permit terms and conditions)**

**Provincial Conditions: (Permit holders must be aware of all terms and conditions):**

- **Variance approved for Provincial Condition #13:** Electrofishing may be conducted in the vicinity of spawning gravel, redds, or spawning fish, or around gravels which are capable of supporting eggs or developing embryos of any species of salmonid at a time of year when such eggs or embryos may be present.
- **Variance approved for Provincial Condition #12:** When water temperatures are less than 5°C, all other permitted salvage methodologies will be employed prior to the use of electrofishing wherever feasible during the salvage operation.

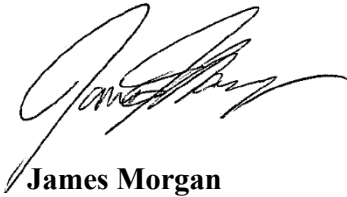
**All other Provincial conditions apply. See Appendix A**

**Region Specific Conditions:**

- **Variance approved for Regional Condition #3:** Electrofishing will be permitted between September 15 and June 15 in streams containing bull trout.
- The proponent must report annually on activities conducted under this permit, including locations sampled.
- Fish salvage operations in large areas (#3) can involve greater technical and logistical complexity due to the spatial scale. Salvage plans for these large areas (i.e., >400m<sup>2</sup>) will be developed by Qualified Environmental Professionals in accordance with the CEMP, and will be provided to FLNRO prior to the commencement of fish salvage operations.
- The regional manager and relevant officers retain section 25 authority.

**All other Regional conditions apply. See Appendix A**

**Authorized by:**



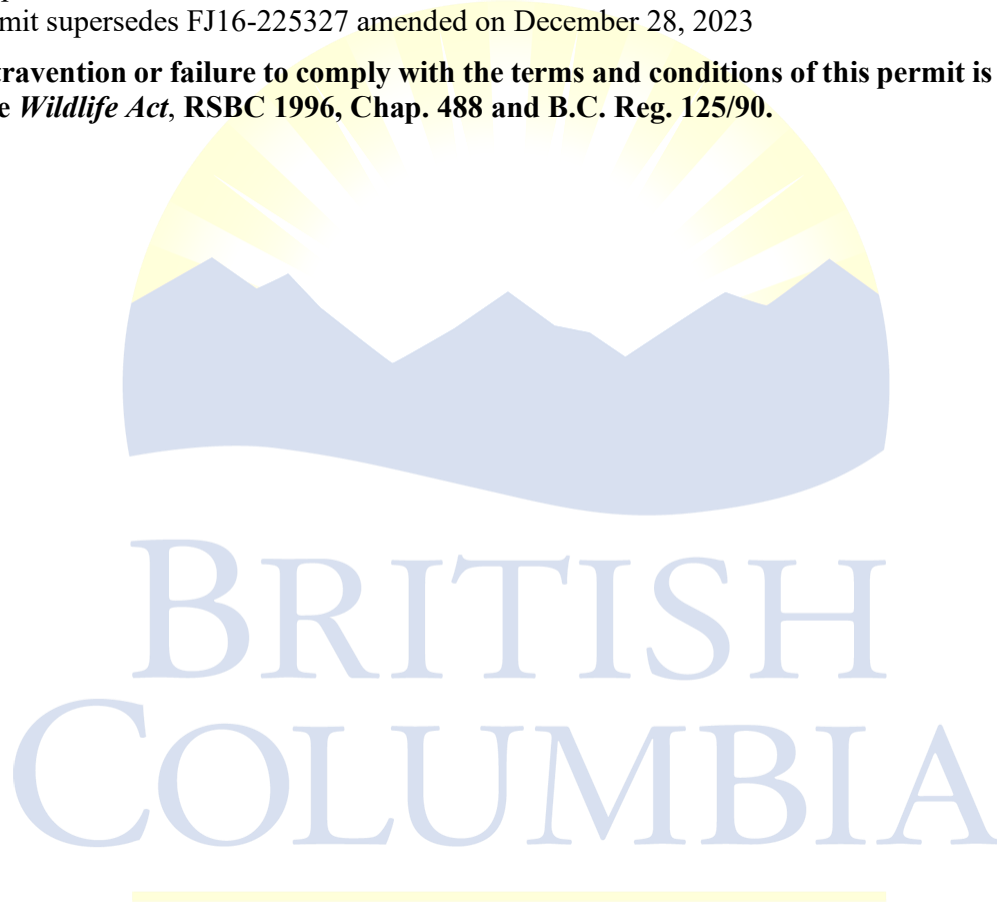
**James Morgan  
Deputy Regional Manager  
Recreational Fisheries & Wildlife Programs  
Peace Region**

Date: September 12, 2024

Permit Fee \$25

This permit supersedes FJ16-225327 amended on December 28, 2023

**Any contravention or failure to comply with the terms and conditions of this permit is an offense under the *Wildlife Act*, RSBC 1996, Chap. 488 and B.C. Reg. 125/90.**



## Appendix A: Fish Collection Permit Conditions

*Any Variation of the following terms and conditions will require explicit authorization by the appropriate regional Fish & Wildlife Section Head.*

### Provincial Conditions

1. This collecting permit is not valid
  - in national parks,
  - in provincial parks unless a Park Use Permit is also obtained,
  - in tidal waters,
  - for eulachon or for salmon\* other than kokanee, or
  - for collecting fish by angling unless the permit holder and crew members possess a valid angling licence.

This collecting permit is **only** valid for species listed as threatened, endangered or extirpated under the Species at Risk Act (SARA) **in conjunction with a permit issued under Section 73 of SARA from Fisheries and Oceans Canada.**

\*Contact the Department of Fisheries and Oceans for fish collecting permits for salmon, eulachon or SARA listed species (see Appendix B).

2. The permit holder (or the project supervisor) named on the application for a scientific collection permit will carry a copy of this permit while engaged in fish collecting and produce it upon request of a conservation officer, fisheries officer or constable.
3. Any specimens surplus to scientific requirements and any species not authorized for collection in this permit shall be immediately and carefully released at the point of capture.
4. Fish collected under authority of this permit shall not be used for food or any purpose other than the objectives set out in the approved application for a scientific collection permit. The permit holder shall not sell, barter, trade, or give away, or offer to sell, barter, trade or give away fish collected under authority of this permit. Dead fish shall be disposed of in a manner that will not constitute a health hazard, nuisance or a threat to wildlife.
5. No fish collected under authority of this permit shall be
  - transported alive unless authorized by this permit, or
  - transplanted unless separately authorized by the Federal/Provincial Fish Transplant Committee.

6. The permit holder shall, within 90 days of the expiry of this permit, submit a report of fish collection activities. Interim reports may also be required and shall be submitted as required by the permit issuer. All submissions must be filed electronically to: [http://www.env.gov.bc.ca/fish\\_data\\_sub/index.html](http://www.env.gov.bc.ca/fish_data_sub/index.html)

Reporting specifications, information and templates are available from this website and outline the mandatory information requirements. Prior notification of submission or questions regarding data report standards can be made to: [fishdatasub@gov.bc.ca](mailto:fishdatasub@gov.bc.ca)

7. This collecting permit is subject to cancellation at any time and shall be surrendered to a conservation officer on demand or to the issuer upon written notice of its cancellation.

8. This permit is valid only for the activities approved on the application form and in accordance with any restrictions set out therein.
9. This permit is valid only for trained, qualified staff named in the Application. The permit holder will comply with all Worker's Compensation Board requirements and other regulatory requirements. Permit holders are responsible for ensuring staff members listed on the permit are properly certified for specific sampling methods or activities (e.g. electroshocking).
10. Any workers not listed on the permit must be supervised by the permit holder or one of the additional persons as named on the permit.
11. All sampling equipment that has been previously used outside of B.C. must be cleaned of mud and dirt and disinfected with 100mg/L chlorine bleach before using in any water course to prevent the spread of fish pathogens (e.g. Whirling disease) and / or invasive plant species. Any washed off dirt or mud must be disposed of in a manner such that it cannot enter a watercourse untreated.
12. No electrofishing is to take place in waters below five degrees C.
13. Electrofishing may not be conducted in the vicinity of spawning gravel, redds, or spawning fish, or around gravels which are capable of supporting eggs or developing embryos of any species of salmonid at a time of year when such eggs or embryos may be present.
14. Angling must only occur in accordance with the regulations specified in the current BC Freshwater Fishing Regulations Synopsis.



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## Appendix A: Fish Collection Permit Conditions Continued

### Region Specific Conditions

#### Peace Region

1. The permit holder must advise Region 7B (Peace) of sampling activities 48 hrs prior to field operations. Please complete the following notification form:
2. [http://www.env.gov.bc.ca/pasb/reports/fish/permit\\_notify7b.html](http://www.env.gov.bc.ca/pasb/reports/fish/permit_notify7b.html)
3. Voucher specimens for all regionally significant red and blue-listed species (3 per species) must be submitted to the Regional Fish Information Specialists as per RISC standards.
4. No electrofishing will be permitted between September 15 and June 15 in streams containing bull trout.
5. All sampling gear follow Association of Professional Biologists' advisory practice bulletin #5. Practice Advisory – Didymo, see: <https://www.professionalbiology.com/sites/default/files/pdfs/Didymo.pdf>
6. The proponent must report annually on activities conducted under this permit, including locations sampled.
7. The regional manager and relevant officers retain section 25 authority.
8. When water temperatures are less than 5°C, all other permitted salvage methodologies will be employed prior to the use of electrofishing wherever feasible during the salvage operation.
9. Fish salvage operations in large areas (#3) can involve greater technical and logistical complexity due to the spatial scale. Salvage plans for these large areas (i.e., >400m<sup>2</sup>) will be developed by Qualified Environmental Professionals in accordance with the CEMP, and will be provided to FLNRO prior to the commencement of fish salvage operations.

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### Appendix B: Table 1 - Species at Risk

The following are species at risk that have been listed by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) as either endangered, threatened or a species of special concern. Species also listed under the Species at Risk Act (SARA) are identified with an asterisk, and are subject to additional permitting requirements through the Federal Department of Fisheries and Oceans (DFO).

Common Name	Scientific Name
Benthic Paxton Lake Stickleback	* <i>Gasterosteus sp.</i>
Benthic Vananda Creek Stickleback	* <i>Gasterosteus sp.</i>
Limnetic Paxton Lake Stickleback	* <i>Gasterosteus sp.</i>
Limnetic Vananda Creek Stickleback	* <i>Gasterosteus sp.</i>
Nooksack Dace	* <i>Rhinichthys sp.</i>
Morrison Creek Lamprey	* <i>Lampetra richardsoni</i>
Vancouver Lamprey (Cowichan Lake Lamprey)	* <i>Lampetra macrostoma</i>
Cultus Pygmy Sculpin	* <i>Cottus sp.</i>
Shorthead Sculpin	* <i>Cottus confusus</i>
Hotwater Physa	* <i>Physella wrighti</i>
Limnetic Enos Lake Stickleback	<i>Gasterosteus sp.</i>
Benthic Enos Lake Stickleback	<i>Gasterosteus sp.</i>
Salish Sucker	<i>Catostomus sp.</i>
Speckled Dace	<i>Rhinichthys osculus</i>
Charlotte Unarmoured Stickleback	<i>Gasterosteus aculeatus</i>
Columbia Mottled Sculpin	<i>Cottus bairdi hubbsi</i>
Giant Stickleback	<i>Gasterosteus sp.</i>
Green Sturgeon	<i>Acipenser medirostris</i>
Umatilla Dace	<i>Rhinichthys umatilla</i>
West Slope Cutthroat Trout	* <i>Oncorhynchus clarki lewisi</i>
White Sturgeon	<i>Acipenser transmontanus</i>

Applications for permits to specifically collect and retain listed species must be reviewed by the appropriate provincial expert, who will screen permits to ensure that any impacts on listed species are acceptable. For white sturgeon the contact is Steve McAdam ([steve.mcadam@gov.bc.ca](mailto:steve.mcadam@gov.bc.ca)). For listed non-game freshwater fish the contact is Jordan Rosenfeld ([jordan.rosenfeld@gov.bc.ca](mailto:jordan.rosenfeld@gov.bc.ca)).

## Appendix C: Potential Species

Common Name	Scientific Name	Code	Common Name	Scientific Name	Code
Arctic Grayling	<i>Thymallus arcticus</i>	GR	Finescale Dace	<i>Phoxinus neogaeus</i>	FDC
Brook Stickleback	<i>Culaea inconstans</i>	BSB	Flathead Chub	<i>Platygobio gracilis</i>	FHC
Bull Trout	<i>Salvelinus confluentus</i>	BT	Goldeye	<i>Hiodon alosoides</i>	GE
Burbot	<i>Lota lota</i>	BB	Kokanee	<i>Oncorhynchus nerka</i>	KO
Mountain Whitefish	<i>Prosopium williamsoni</i>	MW	Lake Chub	<i>Couesius plumbeus</i>	LKC
Northern Pearl Dace	<i>Margariscus margarita</i>	PDC	Lake Trout	<i>Salvelinus namaycush</i>	LT
Northern Pike	<i>Esox lucius</i>	NP	Lake Whitefish	<i>Coregonus clupeaformis</i>	LW
Northern Pikeminnow	<i>Ptychocheilus oregonensis</i>	NSC	Largescale Sucker	<i>Catostomus macrocheilus</i>	CSU
Northern Redbelly Dace	<i>Phoxinus eos</i>	RDC	Longnose Dace	<i>Rhinichthys cataractae</i>	LNC
Peamouth Chub	<i>Mylocheilus caurinus</i>	PCC	Longnose Sucker	<i>Catostomus catostomus</i>	LSU
Prickly Sculpin	<i>Cottus asper</i>	CAS	Slimy Sculpin	<i>Cottus cognatus</i>	CCG
Pygmy Whitefish	<i>Prosopium coulteri</i>	PW	Spoonhead Sculpin	<i>Cottus ricei</i>	CRI
Rainbow Trout	<i>Oncorhynchus mykiss</i>	RB	Spottail Shiner	<i>Notropis hudsonius</i>	STC
Redside Shiner	<i>Richardsonius balteatus</i>	RSC	Troutperch	<i>Percopsis omiscomaycus</i>	TP
Walleye	<i>Stizostedion vitreus</i>	WP	White Sucker	<i>Catostomus commersoni</i>	WSU
Yellow Perch	<i>Perca flavescens</i>	YP			

## Appendix D: Authorized Persons

- Karen von Muehldorfer, Tanya Seebacher, Bobby Bedingfield, Jason Jones, Matt Henderson, Natasha Bush, Katherine Garrah, Shawn Giesbrecht, Brian Gaucher, Erin McMillan, Amanda MacKinnon, Marla Ives, Clemens Langemeyer, Amanda Mervyn, Amanda Brown, Laura Beer, Vicki Burt, James Milne, Nathan Shaw, Franz Kirschbaum, Dimitria Burgoon, Josh Sutherby, Sean Hollis, Geoff Sawatzky, Kevin Little, Sophia Merritt, Natasha Audy, Cheryl McQuillan, Leeann Mudderidge, Burke Mckone, Alex Brissard, Nola Chaplin, Josie Quesnel, Caroline Feischl, Stephanie Austring, Duncan Sutherland, Eric Braumandl, Daniel Mackle, Paul Grutter, Emma-Jane Hennings, Chris King, David Roscoe, Corby Shurgot, Kent Nuspl, Carissa Fox-Canning, Brad Hildebrand, Robert Hollingshead, Neil Moss, Fred Burgess, Leigh Holt, Kaitlin Broadhurst, Annika Clark, Harrison Craig, Katie Frye, Aaron Nicholson, Jamie Norton, Max Schuetz, Jamie Goodier, Rick Palmer, Peter Frederiksen, Ian MacLeod, Crisostomo Gomez, Adrienne Ducharme, Megan Love, Ryan Morin, Daniel King, Justin Krilow, Peter Frost, Todd Sherstone, Steve Sharron, Leah Hull, Harlan Wright, Shannon Lawrence, Julian Krick, Steve Nichol, Mark Latham, Jason Baird, Justin Krilow, Peter Frost, Todd Sherstone, Steve Sharron, Harlan Wright, Shannon Lawrence, Julian Krick, Steve Nichol, Mark Latham, Dan Webster, Valerie Schmidt, Landon Wilson, Jodi Fleming, Chris Coxson, Steve Holtmann, Dan Daley Kael Hanak, Shea Carmichael, Bethany Wiebe, Reece Legault, Sebastian van Leeuwen, Gord Stacey, Axel Chore, Greg Bocek, Jacob Krisel, Cole Hedden, Lukas Bennetto, Jake Mulder, Katie Hill, Robert Schneider, Yinka Adeoye, Cory Watters, Steve Scott, Jesse Francis, Alison MacMaster, Faye Oker, Richard Dunn, Kaden Scott, Nuh Daayiye, Shueb Sheriff, Xena King, Evan Booth, Ifeanyi Ndukwe, Shea Carmichael, Bethany Wiebe, Anne Sutherland, Rebecca Nyambane, Louiza Oukil, Nathan Dyck, Mark Meltcafe, Zachary Bogar, Allison Nagy, Lucas Short, Darcy Brown, Jacqueline Pizzey, Peter Merth, Arshad Khan, Kaylan McDonald, Laura Young, Ryan Dodds, Kayla Livingston, Tammy Huang, Jessica Patterson, Kyla Prince, Jason Inkster, Eztiaan Groenewald, Mike Gamache, Ryan Bouchard, Tina McLean, Kelsey Roth, Scott MacNeil, Mark Tiley, Erin Gilbert, Shanta Sharma, Kyla Roorda, Mike McCarthy, Spencer Woyke, Connor Nielsen, Zachary Hammond, Aleem Nabighods, Megan Von Sprecken, Dawson Guest, Shanaye Simpson, Wade McElory, Jessica Brunet, Michael Gillis, Stephen Slongo, LeeAnn Muggeridge and Craig Lloyd, Luke Sweet, Lianne Leblond, LeeAnn Muggeridge, Brent Toma, Angele Karosi, Mackenzie Walker, Chad Williams, Will Sherwin, Hayley Masson, Colten Brule, Kerry Marchinko, Arian Farajizadeh, Rachel Hocquard, Brianne Kucharski, Laura Costello