



FISH COLLECTION PERMIT
Research

File: 34770-20

Permit No.: NA/SU06-21454

Permit Holder: University of British Columbia-Dept. of Zoology—Dolph Schluter
6270 University Blvd, Vancouver, BC V6T 1Z4

Client No.: 206

Authorized Persons: See Appendix B

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 Waters: Regions 1 & 2—See Appendix C**
- Permitted Times: April 1, 2006 to March 31, 2007**
- Permitted Species: TSB, SB12, SB13, SBB, SBP, SB6 and SB7**
- Permitted Gear: MT and SN**
- Lethal Sampling: See Appendix D**

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

- 1. See Appendix A.

Special Conditions:

- See number 12 of Appendix A.

Authorized by:
Yvonne Foxall
Manager
Permit and Authorization Service Bureau

Authorized by:
Dick Heath
Regional Manger, Environmental
Stewardship Division
Vancouver Island Region

Date: March 10, 2006

Permit Fee \$25

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.

Ministry of Environment

Environmental Stewardship Division
Permit Authorization Service Bureau
4th fl, 2975 Jutland Rd
PO Box 9372 Stn Prov Gov
Victoria BC V8W 9M3

Telephone: 1.866.433.7272
Facsimile: (250) 387-0922

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 species listed as threatened, endangered or extirpated under the Species at Risk Act (SARA)*,
 - for eulachon or for salmon* other than kokanee, or
 - for collecting fish by angling unless the permittee and crew members possess a valid angling licence.

*Contact the Department of Fisheries and Oceans for fish collecting permits for salmon, eulachon or SARA listed species (see Appendix B).
2. The permittee (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 permittee 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 permittee shall, within 90 days of the expiry of this permit, submit to the Permit and Authorization Service Bureau a summary report of collecting 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://srmwww.gov.bc.ca/rib/fish_permit/index.html. PDF Reports, PDF Maps and sampling data submitted in the Field Data Information System (FDIS for short) are not mandatory but are encouraged when available. Prior notification of submission, or questions regarding data report standards can be made to: fishdatasub@victoria1.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 permittee 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. 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.
11. No electrofishing is to take place in waters below five degrees C.
12. 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.
13. Permits covering multiple watersheds or extended time periods:
 - a. Are applicable only in the identified regions and for the identified time periods;
 - b. Do not apply to the collection of adult salmonids unless specifically authorized;
 - c. Include electrofishing, minnow trapping and seining techniques only;

Please print out the notice verifying the information you submit as it becomes part of your permit and must be attached to your original Scientific Fish Collection Permit.

Region Specific Conditions

Region 1 (Vancouver Island)

- There shall be no electrofishing in streams above 630 metres in elevation, in anadromous waters, or in lake tributaries from January 1 to June 30.

Region 2 (Lower Mainland)

- Any fish collection activities taking place in waters known to harbour steelhead trout must have the express approval of the Regional Fish and Wildlife Section Head.
- Please refer to the following website for the least risk in-stream work windows: <http://wlapwww.gov.bc.ca/sry/fw/hp/iwn.htm> . Where possible, collection should be conducted during the least risk work windows identified. The exception is seasonal or ephemeral streams where sampling may not be possible during the prescribed window due to flow conditions.

APPENDIX B**Authorized Persons**

Dr. Dolph Schluter, Dr. Tim Vines, Dr. Richard Svanback, Dr. Sean Rogers, Dr. Matt Arnegard, Dr. Luke Harmon, Dr. Catherine Peichel, Deanna Yim, Patrick Tamakee, Arianne Albert, Kerry Marchinko, Jun Kitano, Anna Greenwood, Abigail Wark, Amanda Bruner, Joe Ross and Tiffany Malek.

APPENDIX C**Permitted Waters**

Region	Waterbody	Watershed Code
Lower Mainland	Cranby Lake	905-1260-310-000
Lower Mainland	Trout Lake	900-126800
Lower Mainland	Klein Lake	900-147300-79800
Lower Mainland	North Lake	900-152008
Lower Mainland	Paq (Lily) Lake	900-141100
Lower Mainland	Kirk Lake	905-126000-61600-75600
Lower Mainland	Ambrose Lake	900-147300-93700
Lower Mainland	Little Campbell River	900-0005-000
Lower Mainland	Salmon River	100-0388-000
Lower Mainland	Pender Harbor	n/a
Lower Mainland	Brown Lake	900-154100
Lower Mainland	Jericho Park Pond	900-029800
Lower Mainland	Paxton Lake	905-1260-660-979
Lower Mainland	Priest Lake	905-1260-616-000
Vancouver Island	Enos Lake	920-440400
Vancouver Island	Beaver Lake	920-257700-60800
Vancouver Island	Dougan Lake	920-257700-02300-16000
Vancouver Island	Weston Lake	925-258500-90000
Vancouver Island	Graham Lake	905-124500-86600
Vancouver Island	Bullock Lake	925-258500-65900
Vancouver Island	Stowell Lake	925-258500-90300
Vancouver Island	Hoggan Lake	925-380000-26400
Vancouver Island	Priest Lake	920-354500

APPENDIX D**Lethal Sampling**

Species	# of Fish	Sample Waterbody
TSB	80	Cranby Lake
TSB	30	Trout Lake
TSB	30	Klein Lake
TSB	30	North Lake
TSB	30	Paq (Lily) Lake
TSB	50	Kirk Lake
TSB	30	Ambrose Lake
TSB	160	Little Campbell River
TSB	120	Salmon River
TSB	200	Pender Harbour
TSB	30	Brown Lake
TSB	30	Jericho Park Pond
SB12	200	Paxton Lake
SB13	200	Paxton Lake
SBB	100	Priest Lake
SBP	100	Priest Lake
SB6	100	Enos Lake
SB7	100	Enos Lake
TSB	20	Beaver Lake
TSB	30	Dougan Lake
TSB	30	Weston Lake
TSB	30	Graham Lake
TSB	30	Bullock Lake
TSB	30	Stowell Lake
TSB	30	Hoggan Lake
TSB	30	Priest Lake (Vancouver Island)