

### **3.5 Fisheries – Habitat**

ARC Environmental Ltd. 1998. Selected Nechako River Tributaries Fish Habitat Assessment and Inventory. Prepared for Ministry of Environment, Lands and Parks Omineca Region.

Record #: 107

Hardcopy location: WLAP

Bachrach, T. 2001. Restoration project improves habitat, stabilizes bank. *Headwater Headlines* 1: 1-2.

Record #: 4810

Hardcopy location: [http://www.fraserheadwaters.org/newsletters/Newsletter\\_winter01.pdf](http://www.fraserheadwaters.org/newsletters/Newsletter_winter01.pdf)

Beniston, R. J and Lister, D. B. 1991. Inferred changes in chinook cover habitat suitability in Nechako River (reaches 5-7) due to flow reduction. Nechako Fisheries Conservation Program Technical Report RM90-7. Prepared for: Nechako Fisheries Conservation Program.

Record #: 2810

Hardcopy location: BPGUB

Library Copy: In File

Birtwell, I.K., Levings, C.D., Macdonald, J.S., and Rogers, I.H. 1988. A review of fish habitat issues within the Fraser River system. Interregional transfers, projects and problems, Proc. Task Force Meeting, Oct 11-14, 1977, Laxemburg, Austria. *Water Pollution Research Journal of Canada* 23: 1-30.

Record #: 1710

Hardcopy location: BVAU

British Columbia Ministry of Environment. 1979. Assessment of the impact of the Kemano II proposal on the fish and wildlife resources of the Nanika-Kidprice and Morice systems : for Habitat Protection Section, Fish and Wildlife Branch, Ministry of Environment, Victoria, British Columbia. Province of British Columbia, Ministry of Environment, Victoria, B.C.

Record #: 4360

Hardcopy location: BVAS, OONL, BVA

Canadian Wildlife Service. 2002. Habitat Conservation - Nechako River. Environment Canada's Green Lane™. Accessed from: [http://www.pyr.ec.gc.ca/wildlife/habitat/mbs-nechako\\_e.htm](http://www.pyr.ec.gc.ca/wildlife/habitat/mbs-nechako_e.htm)

Record #: 4840

Hardcopy location: [http://www.pyr.ec.gc.ca/wildlife/habitat/mbs-nechako\\_e.htm](http://www.pyr.ec.gc.ca/wildlife/habitat/mbs-nechako_e.htm)

Chatwin, S. C., Tschaplinski, P., McKinnon, G., Winfield, N., Goldberg, H., and Scherer, R. 2001. Assessment of the condition of small fish-bearing streams in the central interior plateau of British Columbia in response to riparian practices implemented under the Forest Practices Code. Working Paper 61 British Columbia Ministry of Forests Research Branch, Victoria, B.C. 49 p.

Record #: 1880

Hardcopy location: <http://www.for.gov.bc.ca/hfd/pubs/Docs/Wp/Wp61.htm>

Cleugh, T.R. and Lawley, B.C. 1979. Salmon studies associated with the potential Kemano II hydro electric development, volume 4 : The limnology of Morice Lake relative to the proposed Kemano II power development. Fisheries and Environment Canada, Vancouver, B.C.

Record #: 680

Hardcopy location: BNP, BVAFI, BPGC, BVAS

Envirocon Limited. 1984. Environmental studies associated with the proposed Kemano Completion Hydroelectric Development. Volume 1: Environmental planning and assessment - summary report. Aluminum Company of Canada.

Record #: 2900

Hardcopy location: BPGUB, MMA, BPGC

Envirocon Limited. 1984. Environmental studies associated with the proposed Kemano Completion Hydroelectric Development. Volume 15: Environmental planning and project design. Aluminum Company of Canada. 512 p.

Record #: 3340

Hardcopy location: BPGC, MMA, BPGUB

Envirocon Limited. 1984. Environmental studies associated with the proposed Kemano Completion Hydroelectric Development. Volume 17: Nanika-Kidprice assessment area environmental impact assessment. Aluminum Company of Canada. 157 p.

Record #: 3840

Hardcopy location: BPGC, BPGUB

Envirocon Limited. 1984. Environmental studies associated with the proposed Kemano Completion Hydroelectric Development. Volume 18: Lower Nanika Assessment area environmental impact assessment. Aluminum Company of Canada. 231 p.

Record #: 3850

Hardcopy location: BPGC, MMA, BPGUB

Envirocon Limited. 1984. Environmental studies associated with the proposed Kemano Completion Hydroelectric Development. Volume 19: Morice-Bulkley and Skeena assessment areas environmental impact assessment. Aluminum Company of Canada. 250 p.

Record #: 3860

Hardcopy location: BPGC, MMA, BPGUB

Envirocon Limited. 1984. Environmental studies associated with the proposed Kemano Completion Hydroelectric Development. Volume 21: Nechako River and Fraser assessment areas environmental impact assessment. Aluminum Company of Canada. 345 p.

Record #: 2890

Hardcopy location: BPGUB, BNP, BVAFI, BPGC, MMA

Envirocon Limited. 1984. Environmental studies associated with the proposed Kemano Completion Hydroelectric Development. Volume 22: Kemano assessment area environmental impact assessment. Aluminum Company of Canada. 172 p.

Record #: 3870

Hardcopy location: BPGC, BPGUB

Farrell, G., DeMarcho, R., and Suave, R. 1990. Stream summary catalogue: Subdistrict 29I, Prince George, Volume 1: Fraser-Nechako. Canada Dept. of Fisheries and Oceans.

Record #: 2690

Hardcopy location: BNP

Fisheries and Oceans Canada. 2001. Biophysical evaluation of fish habitat.

Record #: 8290

Hardcopy location: BVAFI

**Nechako River Watershed Bibliography and Library**

2009 Update

Section 3: Bibliography Listed by Subject Heading

---

French, T.D. and Chambers, P.A. 1996. Habitat partitioning in riverine macrophyte communities. *Freshwater Biology* **36**: 509-520.

Record #: 4500

Hardcopy location: BVIV

Goldberg, H., Rubelee, B., and Mitchell, A.C. 1995. Development of fish habitat for mitigation below hydro diversions. *Journal of Energy Engineering ASCE* **121**: 52-72.

Record #: 410

Hardcopy location: BVAU

Golder Associates Ltd. 1997. Reconnaissance level (1:20,000) fish and fish habitat inventory of Slocan Group Plateau (Vanderhoof) Division operating area Nechako River, Stuart River and West Road (Blackwater) River watersheds. Prepared for: Fisheries Branch, B. C. Ministry of Environment Prince George B. C.

Record #: 177

Hardcopy location: WLAP

Goos, G. 1986. Nechako River spawning/rearing channels feasibility study.

Record #: 26

Hardcopy location: WLAP

Hatfield Consultants Ltd. 1998. Nechako Reservoir reconnaissance level stream inventory 1997 studies: Kasalka Creek (180-866000-45200) . Prepared for: Ministry of Environment, Lands and Parks.

Record #: 7600

Hardcopy location: BCMOF

Library Copy: In File

Hatfield Consultants Ltd. 1998. Nechako Reservoir reconnaissance level stream inventory 1997 studies : Rhine Creek (180-866000-58200). Prepared for: Ministry of Environment, Lands and Parks.

Record #: 7610

Hardcopy location: BCMOF

Library Copy: In File

Hatfield Consultants Ltd. 1998. Nechako Reservoir reconnaissance level stream inventory 1997 studies: Whiting Creek (180-866000-37500). Prepared for: Ministry of Environment, Lands and Parks.

Record #: 7580

Hardcopy location: BCMOF

Library Copy: In File

Helm, R. K., MacDonald, D., Sinclair, B., Chan, D., Herrington, T., Chalmers, A., and Shepherd, B. G. 1980. A review of the Nechako River watershed. Salmonid Enhancement Program, Facility Operation, New Projects Unit, Vancouver, B.C. 128 p.

Record #: 3530

Hardcopy location: BNP

Jackson, K. 1984. Toward a fish habitat decision on the Kemano Completion Project : a discussion paper. Canada Department of Fisheries and Oceans, Habitat Management Division. 75 p.

Record #: 590

JCL and IB. 1951. Euchu Lake Survey Data.

Record #: 8090

Library Copy: In File

Jenkins, B. W. and Kilby, J. 1987. Nechako River Court Action: Alcan expert reports. Volume 6 of 7, chinook salmon and their habitat requirements. Aluminum Company of Canada.

Record #: 3060

Hardcopy location: BNP

Langer, O. E., MacDonald, B., Patterson, J., and Schouwenburg, B. 1992. A strategic review of fisheries resources and management objectives: Stuart/Takla Habitat Management Area. Fraser River Action Plan, Department of Fisheries and Oceans.

Record #: 2070

Hardcopy location: Burnaby Public Library

Langer, O. E., MacDonald, B., Patterson, J., Schouwenburg, B., Harder, P., Harding, T., Miles, M., and Walmsley, M. 1992. Stuart-Takla fish habitat management plan. Department of Fisheries and Oceans, Vancouver, B.C.

Record #: 1580

Hardcopy location: MMA

Lepori, F., Palm, D., Brannas, E., and Malmqvist, B. 2005. Does restoration of structural heterogeneity in streams enhance fish and macroinvertebrate diversity? *Ecological Applications* : 2060-2071.

Record #: 6570

Hardcopy location: BIOSIS

Levings, C.D. and Lauzier, R.B. 1991. Extensive use of the Fraser River basin as winter habitat by juvenile chinook salmon (*Oncorhynchus tshawytscha*). *Canadian Journal of Zoology* **69**: 1759-1767.

Hardcopy location: BPGUB

Lister, D. B. and Associates. 1990. Preliminary inventory of habitat cover/cover opportunities, Nechako River, 1989.

Record #: 8

Hardcopy location: BVAFI

Luiker, E. A. and Hickey, D. G. 1996. A reconnaissance survey of Holy Cross Lake (180-5453-138 01). Prepared for: Ministry of Environment, Lands and Parks.

Record #: 7800

Library Copy: In File

MacDonald, D. D. and Shephard, B. G. 1983. A review of the Kitimat River watershed. Canada Salmonid Enhancement Program New Projects Unit. 164 p.

Record #: 3380

Hardcopy location: BNP, BVAFI, BPGC

**Nechako River Watershed Bibliography and Library**

2009 Update

Section 3: Bibliography Listed by Subject Heading

---

Nechako Fisheries Conservation Program. 1992. Summary of biological and physical studies carried out on the Nechako River by Alcan and DFO 1991/92. Nechako Fisheries Conservation Program, Vancouver, B.C.

Record #: 4210

Hardcopy location: BVA

Northcote and Burwash. 1991. Fish and fish habitats of the Fraser River Basin. *In Water in sustainable development: Exploring our common future in the Fraser River Basin. Edited by A.H.J. Dorsey and J.R. Griggs.* Westwater Research Centre, University of British Columbia, Vancouver, B.C. pp. 117-141.

Record #: 3740

Hardcopy location: BVAU

Nowotny, C. and Hickey, D. G. 1994. Inventory and rating of salmonid habitats along the Fraser and Nechako rivers within the city limits of Prince George, B.C. Fraser River Environmentally Sustainable Development Task Force.

Record #: 2370

Hardcopy location: BPGC, Burnaby Public Library, WLAP, BVAFI

Library Copy: In File

Reid Crowther and Partners Ltd. 1987. Report on surveys of the Nechako River. Department of Fisheries and Oceans. 99 p.

Record #: 4190

Rosenau, M. 1983. Nechako River Habitat Capability Estimate. Confidential.

Record #: 42

Hardcopy location: WLAP Don Cadden personal files

Scrivener, J.C., Brown, T.G., and Andersen, B.C. 1994. Juvenile chinook salmon (*Oncorhynchus tshawytscha*) utilization of Hawks Creek, a small nonnatal tributary of the upper Fraser River. *Canadian Journal of Fisheries and Aquatic Sciences* **51**: 1139-1146.

Record #: 1770

Hardcopy location: BVIV, BVAU

Shirvell, C.S. 1989. Ability of PHABSIM to predict chinook salmon spawning habitat. *Regulated Rivers, Research and Management* **3**: 277-289.

Record #: 450

Hardcopy location: CISTI

Shirvell, C. S. 1987. Modelling of fish habitat in the Nechako River. *Edited by: Canada Department of Fisheries and Oceans, Vancouver B. C.*

Record #: 19

Shirvell, C. S. 1987. Nechako River Court Action : DFO expert report. Volume 8 of 8, Modelling of fish habitat in the Nechako River. Canada. Dept. of Fisheries and Oceans.

Record #: 3090

Hardcopy location: BNP

Slaney, P.A., Rubelee, B.O., Perrin, C.J., and Goldberg, H. 1994. Debris structure placements and whole-river fertilization for salmonids in a large regulated stream in British Columbia. *Bulletin of Marine Science* **55**: 1160-1180.

Record #: 420

Hardcopy location: BVAS, BVIV

Toews, D. A. A. and Chatwin, S. 2001. Watershed assessment in the southern interior of British Columbia: workshop proceedings, March 9-10, 2000. Penticton, B.C. Working Paper 57. B.C. Ministry of Forests, Research Branch, Victoria, B.C. 247 p.

Record #: 4740

Hardcopy location: <http://www.for.gov.bc.ca/hfd/ppubs/Docs/Wp/Wp57.htm>

Triton Environmental Consultants. 2003. In-stream habitat complexing 1997: pilot testing. Nechako Fisheries Conservation Program Technical Report RM97-2. Prepared for: Nechako Fisheries Conservation Program.

Record #: 6660

Hardcopy location: BPGC, NFCP

Library Copy: In File

Triton Environmental Consultants Ltd. 1997 Instream Habitat Complexing. Nechako Fisheries Conservation Program Data Report RM97-2. Prepared for: Nechako Fisheries Conservation Program.

Record #: 152

Hardcopy location: BNP, BVAFI, BVIEM, BPGC

Triton Environmental Consultants Ltd. 1998 Instream Habitat Complexing. Nechako Fisheries Conservation Program Data Report RM98-2. Prepared for: Nechako Fisheries Conservation Program.

Record #: 154

Triton Environmental Consultants Ltd. 1993. Assessment of habitat complexing/stream fertilization. Nechako Fisheries Conservation Program Report RM89-5.

Record #: 2840

Hardcopy location: BPGUB

Triton Environmental Consultants Ltd. 1998. Biological assessment of habitat complexing and stream fertilization. Nechako Fisheries Conservation Program Data Report RM89-5. Prepared for: Nechako Fisheries Conservation Program. 18 p.

Record #: 1040

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Triton Environmental Consultants Ltd. 1991. Biological Assessment of Habitat Complexing in the Nechako River. Nechako Fisheries Conservation Program Report RM91-8. Prepared for: Nechako Fisheries Conservation Program.

Record #: 64

**Nechako River Watershed Bibliography and Library**

2009 Update

Section 3: Bibliography Listed by Subject Heading

---

Triton Environmental Consultants Ltd. 1996. Biological assessment of habitat complexing in the Nechako River, 1990. Nechako Fisheries Conservation Program Data Report RM90-6. Prepared for: Nechako Fisheries Conservation Program.

Record #: 1160

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Triton Environmental Consultants Ltd. 1996. Biological assessment of habitat complexing in the Nechako River, 1991. Nechako Fisheries Conservation Program Data Report RM91-6. Prepared for: Nechako Fisheries Conservation Program.

Record #: 1220

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Triton Environmental Consultants Ltd. 1996. Biological assessment of habitat complexing in the Nechako River, 1992. Nechako Fisheries Conservation Program Data Report RM92-6. Prepared for: Nechako Fisheries Conservation Program.

Record #: 1230

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Triton Environmental Consultants Ltd. 1996. Biological assessment of habitat complexing in the Nechako River, 1993. Nechako Fisheries Conservation Program Data Report RM93-4. Prepared for: Nechako Fisheries Conservation Program.

Record #: 1240

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Triton Environmental Consultants Ltd. 1996. Biological assessment of habitat complexing in the Nechako River, 1994. Nechako Fisheries Conservation Program Data Report RM94-3. Prepared for: Nechako Fisheries Conservation Program.

Record #: 1170

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Triton Environmental Consultants Ltd. 1999. Biological assessment of habitat complexing in the Nechako River, 1995. Nechako Fisheries Conservation Program Data Report RM95-4. Prepared for: Nechako Fisheries Conservation Program.

Record #: 960

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Triton Environmental Consultants Ltd. 1999. Biological assessment of habitat complexing in the Nechako River, 1996. Nechako Fisheries Conservation Program Data Report RM96-3. Prepared for: Nechako Fisheries Conservation Program.

Record #: 940

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA, NFCP

Library Copy: In File

Triton Environmental Consultants Ltd. 2001. Biological assessment of habitat complexing in the Nechako River, 1997. Nechako Fisheries Conservation Program Technical Report RM97-3. Prepared for: Nechako Fisheries Conservation Program.

Record #: 790

Hardcopy location: BNP, BVAFI, BPGC, BVA

Library Copy: In File

Triton Environmental Consultants Ltd. 2006. Fish passage culvert inspections (FPCI) at selected crossings on the Bobtail, 200, 400, 800 and 900 FSR. Prepared for: Canadian Forest Products Ltd.

Record #: 7520

Hardcopy location: BCMOF

Triton Environmental Consultants Ltd. 2005. Fish passage culvert inspections (FPCI) at selected crossings on the Bobtail, 200, 400, 800 and 900 FSR. Prepared for: Canadian Forest Products.

Record #: 7540

Hardcopy location: BCMOF

Library Copy: In File

Triton Environmental Consultants Ltd. 1996. In-stream habitat complexing 1988-1990: pilot testing. Nechako Fisheries Conservation Program Technical Report RM90-3. Prepared for: Nechako Fisheries Conservation Program.

Record #: 1140

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA, NFCP

Library Copy: In File

Triton Environmental Consultants Ltd. 1996. In-stream habitat complexing, 1991: pilot testing. Nechako Fisheries Conservation Program Technical Report RM91-3. Prepared for: Nechako Fisheries Conservation Program.

Record #: 1190

Hardcopy location: BNP, BVAFI, BVIEM, BPGC

Triton Environmental Consultants Ltd. 1996. In-stream habitat complexing, 1992:pilot testing. Nechako Fisheries Conservation Program Technical Report RM92-3. Prepared for: Nechako Fisheries Conservation Program.

Record #: 1270

Hardcopy location: BVIEM, OOFI

Triton Environmental Consultants Ltd. 2003. In-stream habitat complexing 1996: pilot testing. Nechako Fisheries Conservation Program Technical Report RM96-2. Prepared for: Nechako Fisheries Conservation Program.

Record #: 6670

Hardcopy location: NFCP, College of New Caledonia Library

Library Copy: In File

Triton Environmental Consultants Ltd. 1993. In-stream habitat modifications habitat complexing 1988-1990. Nechako Fisheries Conservation Program Report RM90-3.

Record #: 2790

Hardcopy location: BPGUB

Triton Environmental Consultants Ltd. 1993. Incubation environment: testing of redd capping. Nechako Fisheries Conservation Program Technical Report M88-9. Prepared for: Nechako Fisheries Conservation Program. 8 p.

Record #: 2590

Hardcopy location: BNP, BVIEM, BVA

Library Copy: In File



**Nechako River Watershed Bibliography and Library**

2009 Update

Section 3: Bibliography Listed by Subject Heading

---

Triton Environmental Consultants Ltd. 2003. Instream Habitat Complexing 1993-1995: pilot testing. Nechako Fisheries Conservation Program Technical Report RM95-3. Prepared for: Nechako Fisheries Conservation Program.

Record #: 151

Hardcopy location: BPGC, NFCP

Library Copy: In File

Triton Environmental Consultants Ltd. 1989. Inventory and assessment of Nechako River secondary channels; Kenny Dam to Vanderhoof. Nechako Fisheries Conservation Program Report RM88-1. Prepared for: Nechako Fisheries Conservation Program.

Record #: 24

Triton Environmental Consultants Ltd. 2005. Nechako River Habitat Complex Removal (LM21.4RDC) Post Construction Monitoring Report. Prepared for: Nechako Fisheries Conservation Program.

Record #: 6760

Hardcopy location: NFCP

Library Copy: In File

Triton Environmental Consultants Ltd. 2007. Nechako River Habitat Complex Removal (RM 86.375 RDC) Post Construction Monitoring Report. Prepared for: Nechako Fisheries Conservation Program.

Record #: 7030

Hardcopy location: NFCP

Library Copy: In File

Triton Environmental Consultants Ltd. 2000. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory in the Lower Nechako Reservoir System (WSC 180-557700 to 180-72600). Prepared for: Fraser Lake Sawmills.

Record #: 8070

Library Copy: In File

Triton Environmental Consultants Ltd. 2000. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory in the Upper Nechako Reservoir System (WSC 180-792700 to 180-734300). Prepared for: Fraser Lake Sawmills.

Record #: 8080

Library Copy: In File

Triton Environmental Consultants Ltd. 1997. Upper Kemano River Fish and Fish Habitat Inventory.

Record #: 8140

Library Copy: In File

Triton Environmental Consultants Ltd. and Klohn Leonoff Ltd. 1991. Reconnaissance of fish habitat and surficial deposits of Nechako Canyon. Alcan Smelters and Chemicals Ltd., Vancouver, B.C.

Record #: 3930

United Fishermen and Allied Workers' Union. 1981. Section H. - habitat and survival of salmon to United Fishermen and Allied Workers: submission to the Commission on Pacific Fisheries Policy. Commission on Pacific Fisheries Policy (Canada). 37 p.

Record #: 3500

Hardcopy location: OOFI

Unser, C. W. 2002. Temperature monitoring of headwater streams for the purpose of improved riparian management as a step toward sustainable forestry.

Record #: 6590

Hardcopy location: Dissertations Abstract International

Westcott, R. G. 1989. A Reconnaissance survey of Cheslatta Fan Scour Lake. Raw Data Report.

Record #: 48

Hardcopy location: WLAP Don Cadden's personal files

Westworth Associates Environment Ltd. 1998. A (1996) reconnaissance level fish and fish habitat inventory of portions of the Chilako and Nechako River watershed. Prepared for: Canadian Forest Products Ltd.

Record #: 176

Hardcopy location: WLAP

Library Copy: In File

Westworth Associates Environmental Ltd. 1998. Isle Pierre Reconnaissance Fish and Fish Habitat Inventory (1996), Spring Sampling and Additional Sampling Sites (1997). Prepared for: Canadian Forest Products Ltd.

Record #: 7760

Library Copy: In File

### **3.6 Fisheries – Adult Chinook**

Beniston, R. J., Lister, D. B., and Faulkner, G. 1993. Nechako and Stuart Rivers chinook spawner enumeration: 1990 data report. Nechako Fisheries Conservation Program Data Report M90-1. Prepared for: Nechako Fisheries Conservation Program.

Record #: 2480

Hardcopy location: BNP, BVIEM, BPGC, BVA

Birch, G. J., Gidora, S., and Mathers, J. S. 1993. Nechako and Stuart Rivers chinook carcass recovery 1989. Nechako Fisheries Conservation Program Data Report M89-2. Prepared for: Nechako Fisheries Conservation Program.

Record #: 2620

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Birch, G. J., Mathers, J. S., and Rublee, W. O. 1993. Nechako and Stuart Rivers chinook spawner enumeration 1989. Nechako Fisheries Conservation Program Data Report M89-1. Prepared for: Nechako Fisheries Conservation Program.

Record #: 2600

Hardcopy location: BNP, BVAFI, BVIEM, BPGC, BVA

Bradford, M.J. 1994. Trends in the abundance of chinook salmon (*Oncorhynchus tshawytscha*) of the Nechako River, British Columbia. Canadian Journal of Fisheries and Aquatic Sciences 51: 965-973.

Record #: 430

Hardcopy location: OOFI, NRCAN