2003.4 Kemano Completion Project Dispute Collection Finding Aid

Collected and created by Department of Fisheries and Oceans scientists:

Dr. Don Alderdice

Dr. J. Harold Mundie

Dr. Gordon Hartman

Dr. Cole Shirvell

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KEMANO COMPLETION PROJECT DISPUTE COLLECTION

Creators: Drs. Don Alderdice, J. Harold Mundie, Gordon Hartman, and Cole Shirvell

Dates of Creation: 1974-2001

Physical Description: 6.33 m of textual records and other material (19 boxes)

Custodial History: Collection donated jointly to Northern BC Archives on May 30, 2003 from Alderdice, Mundie, Hartman, and Shirvell.

Scope and Content: Collection consists of records regarding the Kemano Completion Project collected by four scientists that were involved in the Department of Fisheries and Oceans review of Alcan's project. The majority of the material consists of copies of publications related to the scientists' research and activities, many of which were written or annotated by them, such as reprints of journal articles, draft scientific reports, government publications, and newspaper clippings. Original scientific research records comprise raw data, field notes, memoranda, and draft reports. Includes correspondence regarding the Nechako River court action between DFO, Alcan, and the province and scientific reports that were created in anticipation of the case. Also includes significant material emanating from the British Columbia Utilities Commission Kemano Completion Project Public Review, such as correspondence, BCUC newsletters and news releases, exhibits and evidence submitted to the review panel, documents produced for the hearings, and final reports. In addition, includes records and publications relating to various other groups affected by the Kemano Completion Project or arising because of it, such as the Cheslatta Carrier Nation, the Rivers Defense Coalition, the Nechako Fisheries Conservation Program, the Nechako Watershed Council, the Nechako Environmental Enhancement Fund, and the Nechako River Alliance.

Arrangement: Arranged by the archivist. Each creator's collection of records is maintained separately, arranged in a series for each scientist. Each series is arranged roughly chronologically. Shirvell's series (2003.4.4) is split into six subseries.

Finding Aids: Also available at http://search.nbca.unbc.ca/nechako-alcan-development-project-fonds;rad

Restrictions: Restricted files are noted throughout the file lists of this finding aid. Restrictions are applied based on the federal Access to Information Act (ATIA) and the provincial Freedom of Information and Protection of Privacy Act (FOIPPA). Access to restricted material requires an *Application to Restricted Records*.

Reproductions: All records created by the scientists after their retirement from the Department of Fisheries and Oceans may be reproduced; copyright is held by Northern BC Archives. Records created by the scientists before their date of retirement may be under Crown copyright, as they were created by an employee of DFO, and reproduction restrictions may apply. Any publications under Crown copyright may be copied without permission from government, as long as the publication does not state otherwise.

Rights: Original Department of Fisheries and Oceans records and their copyright remain with the Department or Library and Archives Canada.

Date of Description: Description completed March 2013 by K. Stathers, Archivist.

Dr. Don Alderdice Series

Creator: Dr. Donald F. Alderdice

Biographical Sketch: Dr. Don Alderdice (1924-March 19, 2010) was a respected fisheries biologist. He completed a B.A. (Honours in Zoology) from UBC in 1946, a M.A. (Zoology, Biology and Botany) from UBC in 1948, and a Ph.D. in environmental factors, experimental biology and biochemistry from the University of Toronto in 1963. Alderdice began working with the Fisheries Research Board of Canada (FRB) in 1944 as a field worker and joined the Department of Fisheries and Oceans in 1949, where he stayed until his retirement in 1987. His research during his tenure as a DFO biologist included salmon ecology studies, study of the influence of power dams on migration of salmon in British Columbia, and the physiological ecology of biological problems in B.C. fishes resulting from environmental alteration. Between 1985 and 1987, his research focused on the examination of the Alcan-Nechako problem, particularly the effects of environmental modification and its effects on salmon of the Nechako system. Much of this study emphasized the effects of the elevated total dissolved gas pressure (TGP) on the salmon. After Alderdice's retirement from DFO in 1987, he continued to work as a biological consultant on fisheries issues.

Dates of Creation: 1980-1997

Physical Description: 0.6 m of textual records (2 boxes)

Scope and Content: Series consists of Alderdice's records and collected material related to the Kemano Completion Project and his activities as a fisheries biologist. Early material includes research records on total gas pressure and flow analysis research, particularly in regards to the Nechako River, which Alderdice was working on in anticipation of the Nechako River court action. Records regarding the Nechako River court action range from 1984 to 1987, and include correspondence, internal DFO memoranda, and legal documents. Records created by Alderdice after his retirement from DFO in 1987 document his involvement with the British Columbia Utilities Commission Kemano Completion Project Public Review and his connection to the Siddon v. Mair court case. Also includes copies of publications related to Alderdice's research and activities, such as reprints of journal articles, scientific reports, government publications, and newspaper clippings.

Arrangement: Arranged by the archivist chronologically.

2003.4.1 - Dr. Don Alderdice Series File List (Boxes 1-2)

	21. 2011 Muor Mice Service 1 Me 2000 (20000 1 2)
2003.4.1.01	Federal and provincial data of heavy metal content in the Bulkley River, [between 1980 and 1997] [0.1 cm of textual records]
	File consists of copies of computer-generated data tables from the Department of Fisheries and Oceans database (NAQUADAT) and from the BC provincial database (EQUIS). Measurements of heavy metal content in the Bulkley River were taken at Fort Fraser, Kenney Dam, Vanderhoof, Prince
	George, Smithers, and Morice River.
2003.4.1.02	Nechako/Fraser watershed water temperature monitoring data and analysis, 1980-1985 [2 cm of
	textual records]
	File consists of multiple reports for water temperature monitoring data and its analysis for the
	Nechako and Fraser River watershed for the years 1981, 1982 and 1983. All reports by Philip Gilhousen in association with the International Pacific Salmon Fisheries Commission.
2002 4 1 02	"Experiments on Thermal Requirements for Growth and Food Conversion Efficiency of Juvenile
2003.4.1.03	Chinook Salmon, Oncorhynchus tshawytscha", Aug. 1982 [0.3 cm of textual records]
	File consists of final drafts of the Canadian Technical Report of Fisheries and Aquatic Sciences No.
	1127 regarding thermal requirements for Chinook Salmon, written for the Department of Fisheries
	and Oceans.
2003.4.1.04	"Habitat Capability Analysis of the Nechako River for Rainbow Trout and the Effects of Various Flow
	Regimes", 1983 [0.5 cm of textual records]
	File consists of final drafts of the report "Habitat Capability Analysis of the Nechako River for Rainbow
	Trout and the Effects of Various Flow Regimes" by BC Fish and Wildlife Branch scientists. Also includes accompanying memoranda.
2002 4 4 05	
2003.4.1.05	"Potential Effects of the Kemano Completion Project on Fraser River Sockeye and Pink Salmon", 1983 [0.5 cm of textual records]
	File consists of a photocopy of the International Pacific Salmon Fisheries Report' "Potential Effects of
	the Kemano Completion Project on Fraser River Sockeye and Pink Salmon", along with an
	accompanying summary of the report. The Director of Investigations for the report was John F. Roos.
2003.4.1.06	Total Gas Pressure (TGP) and flow analysis research on the Nechako and related correspondence,
	1980-1983 [0.5 cm of textual records]
	File consists of miscellaneous reports, research material, memoranda and correspondence related to
	Total Gas Pressure (TGP) research and/or flow analysis research. Includes copies of the following reports: "Effect of Elevated Water Temperatures on Infectious Diseases of Salmonids, Particularly
	Chinook Salmon" by G.R. Bell; and "Experience in Michigan with Gas Supersaturation" by Harry
	Westers.
2003.4.1.07	Total Gas Pressure (TGP) and flow analysis research on the Nechako and related correspondence,
	1984 [2 cm of textual records]
	File consists of miscellaneous reports, research material, memoranda and correspondence related to
	Total Gas Pressure (TGP) research and/or flow analysis research. Includes copies of the following
	reports: "Précis on Total Gas Pressure Research" by D.F. Alderdice and J.O.T. Jensen; "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development: Volume 2,
	Physical and Hydrological Studies" prepared by Envirocon Ltd.; and "Statement on the Significance of
	Excess Total Dissolved Gas Pressure to Juvenile Salmonids" by D.F. Alderdice.
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Total Gas Pressure (TGP) and flow analysis research on the Nechako and related correspondence, 1985 [2 cm of textual records]

File consists of miscellaneous reports, research material, memoranda and correspondence related to Total Gas Pressure (TGP) research and/or flow analysis research. Includes copies of the following reports: "Influence of Atmospheric Gas Supersaturation on Salmonid Fishes in Relation to Manipulation of the Nechako River through the Kemano Completion Project" by D.F. Alderdice and J.O.T. Jensen; "Synopsis of 1985 Nechako River Salmonid Gas Bubble Trauma Field Studies"; and a proposal submitted to DFO Fisheries Research Branch to study the "Establishment of Total Gas Pressure Criteria for Salmonid Fishes Exposed to Gas Supersaturation in Water" by Don Alderdice and John Jensen.

Total Gas Pressure (TGP) and flow analysis research on the Nechako and related correspondence, 1986 [2 cm of textual records]

RESTRICTED

File consists of miscellaneous reports, research material, memoranda and correspondence related to Total Gas Pressure (TGP) research and/or flow analysis research. Includes memoranda regarding the DFO's position on Nechako River fish flow requirements and a statement by Jorgen O.T. Jensen for the Nechako court case on "Assessment of the Influence of Excess Total Gas Pressure (TGP) on Salmonids in the Nechako River.

2003.4.1.10 Précis on Total Gas Research, Aug. 1984 [0.5 cm of textual records]

File consists of a copy of Alderdice and Jensen's "Précis on Total Gas Research" and accompanying memoranda.

2003.4.1.11 Kemano Completion Project documents, 1984-1989 [0.5 cm of textual records]

* * * RESTRICTED * * *

Project Review.

File consists of copies of memoranda, notes and reports relating to the Department of Fisheries and Oceans' response to the Kemano Completion Project, including mention of the Kemano Task Force Report and the Nechako court case.

2003.4.1.12 Kemano Task Force, 1984-1990 [2 cm of textual records]

File consists predominately of memoranda between members of the Department of Fisheries and Oceans Kemano Task Force and outgoing correspondence from the Task Force members. The Kemano Completion Task Force was directed by R. Bell-Irving. Includes a draft outline of "Resource Activities Required for the Nechako Court Case and Possible Joint Technical Meetings" from F.C. Boyd. Also includes various records regarding the Kemano Task Force Report.

2003.4.1.13 Correspondence regarding the Kemano Completion Project, 1984-1997 [2 cm of textual records] File consists of copies of Don Alderdice's incoming and outgoing correspondence to and from fellow scientists, lawyers, and others. Also includes Rivers Defense Coalition newsletters (Vol. 1, No. 4 Aug. 1994 and Vol. 2, No. 1 Jan. 1995) and a copy of the Summary Report for the Kemano Completion

2003.4.1.14 "Assessment of the Influence of Gas Supersaturation on Salmonids in the Nechako River in Relation to Kemano Completion", Jan. 1985 [0.5 cm of textual records]

File consists of a published copy of the Canadian Technical Report of Fisheries and Aquatic Sciences No. 1386, entitled "Assessment of the Influence of Gas Supersaturation on Salmonids in the Nechako River in Relation to Kemano Completion" written by Alderdice and Jensen of the Department of Fisheries and Oceans. Also includes final drafts of the work and memoranda related to its publication.

Alderdice's notes regarding the Alcan-Nechako controversy, [between 1984 and 1994] [0.1 cm of textual records]

File consists of Alderdice's handwritten notes regarding various aspects of the Alcan-Nechako River controversy.

2003.4.1.16 Nechako River fish flow workshop, 14 Nov. 1985 [0.1 cm of textual records]

File consists of notes from the Nov. 14-15 DFO subject workshop on Nechako River Fish Flow, accompanying memoranda, and a workshop agenda.

2003.4.1.17 K2 values in the Nechako River, Jan. 1986 [0.5 cm of textual records]

File consists of an important memorandum from Alderdice and Jensen to Gordon Ennis regarding a Byrnes and Servizi manuscript on K2 values in the Nechako River. Also includes accompanying notes and memoranda, an excerpt of a report, and graphs.

2003.4.1.18 Attorney General of Canada v. Alcan, 1985-1986 [0.3 cm of textual records]

RESTRICTED

File consists of copies of Department of Fisheries and Oceans correspondence and memoranda regarding the Nechako River court action with Alcan. Also includes copies of the "Amended Statement of Defence to Amended Counterclaim" for the Attorney General of Canada v. Alcan case.

003.4.1.19 Draft DFO position on Nechako River fish flow requirements, 10 Feb. 1986 [0.5 cm of textual records]

* * * RESTRICTED * * *

File consists of a faxed copy of the document "Nechako River Flow Requirements for Fish and Fish Habitat: Technical Position of the Department of Fisheries and Oceans" and accompanying memoranda.

2003.4.1.20 Nechako River court action inspection and discovery of documents, 27 Feb. 1986 [0.5 cm of textual records]

File consists of schedules of documents compiled during the inspection and discovery of documents phase for Alcan in the Attorney General of Canada v. Alcan case. Also includes accompanying memoranda.

2003.4.1.21 Settlement Agreement between Alcan, the Federal Crown, and the Provincial Crown, 14 Sept. 1987 [0.3 cm of textual records]

File consists of copies of the settlement agreement between Alcan, the Federal Government, and the Province. Also includes a copy of the agreement released by the Nechako Fisheries Conservation Program and a news release about the agreement from the Department of Fisheries and Oceans.

"Impacts of Alcan's Kemano Project and the Federal-Provincial-Alcan Agreement on Salmon Populations of the Nechako and Fraser Rivers", Mar. 1988 [0.1 cm of textual records]

File consists of a copy of Mike Morrell's report, "Impacts of Alcan's Kemano Project and the Federal-Provincial-Alcan Agreement on Salmon Populations of the Nechako and Fraser Rivers", which was prepared for the Save the Bulkley organization.

2003.4.1.23 Nechako court action documents, 1983-1985 [0.5 cm of textual records]

RESTRICTED

File consists of copies of Department of Fisheries and Oceans memoranda and other correspondence related to the developing court action between Alcan and the provincial and federal governments.

2003.4.1.24 Nechako court action documents, 1986 [2 cm of textual records]

RESTRICTED

File consists of copies of Department of Fisheries and Oceans memoranda and other correspondence related to the developing court action between Alcan and the provincial and federal governments. Also includes a "Nechako River Total Gas Pressure Sampling Program 1985 Trip Report" and correspondence about expert witness statements for the Alcan court case.

2003.4.1.25 Nechako court action documents, 1987-1989 [2 cm of textual records]

RESTRICTED

File consists of copies of Department of Fisheries and Oceans memoranda and other correspondence related to the court action between Alcan and the provincial and federal governments. Also includes a "Summary Report of the Nechako River Working Group" and a copy of the 1987 settlement agreement between Alcan and the government.

2003.4.1.26 Nechako court action documents, 1990-1995 [2 cm of textual records] ***RESTRICTED***

File consists of copies of Department of Fisheries and Oceans memoranda and other correspondence related to the court action between Alcan and the provincial and federal governments, the British Columbia Utilities Commission (BCUC) Public Review, and the court case between the Rivers Defense Coalition and the Ministers of the Environment, Fisheries and Oceans, and Transport. Includes correspondence with William Schouwenburg, Dirk Beck, the Ferguson Gifford law firm, Bruce Rawson, John Hummel, Robert Pellatt of the BCUC, and the Rivers Defense Coalition. Also includes a copy of the "1991/92 Budget Ministry of Environment Expenditure Issue Paper", Alderdice's affidavit for the Rivers Defense Coalition case, news releases regarding the Kemano Completion Project, "Kemano Completion Project--Nechako River: A Summary Statement" by D.F. Alderdice, and Alderdice's notes.

2003.4.1.27 "A Report of the Kemano Task Force: Review of the Environmental Studies Report Submitted by Alcan in Support of the Kemano Completion Proposal in Relation to Continued Fish Production from the Rivers Involved", Apr. 1990 [3 cm of textual records]

File consists of a copy of "A Report of the Kemano Task Force: Review of the Environmental Studies Report Submitted by Alcan in Support of the Kemano Completion Proposal in Relation to Continued Fish Production from the Rivers Involved" and an accompanying memorandum. Report has been annotated by Alderdice.

2003.4.1.28 Curriculum vitae for Donald Francis Alderdice, 1990, 1994 [0.1 cm of textual records] File consists of Alderdice's resumes from 1990 and 1994. The 1990 resume was an exhibit referred to in Alderdice's affidavit for the Nechako court action.

2003.4.1.29 Rivers Defense Coalition v. Ministers of Environment, Fisheries and Oceans, and Transport, 1990-1994 [0.5 cm of textual records]

File consists of a copy of the 'Notice of Motion' for the case between the Save the Bulkley Society, Nechako Neyenkut Society, United Fishermen and Allied Workers' Union, BC Wildlife Federation, Steelhead Society of British Columbia, and Canadian Association of Smelter and Allied Workers v. the Minister of the Environment, Minister of Fisheries and Oceans, and Minister of Transport. Includes Nancy Morgan, Don Alderdice, and Patricia Moss' affidavits for the case. Also includes clippings, Alderdice's notes, and correspondence.

2003.4.1.30 "An Analysis of the Kemano Completion Project", [1990] [0.5 cm of textual records]

File consists of the report "An Analysis of the Kemano Completion Project" by D.F. Alderdice and G.F. Hartman. This document was an exhibit referred to in Alderdice's affidavit for the Nechako court action. Also includes a copy of Alderdice's 1990 resume and a copy of the article "The Sovereign State of Alcan" from a 1983 Telkwa Foundation Newsletter.

"Strangling the Nechako: The strangulation of the public process and the loss of a river", 17 Dec. 1990 [0.5 cm of textual records]

File consists of a newspaper article written by Alderdice and Hartman. Includes a copy of the article in its original publication form in The Fisherman newspaper, copies of the article, and annotated early drafts of the article.

"The Alcan-Federal-Provincial Nechako River Controversy: a case history of why people lose faith in the political process", Dec. 1990 [2 cm of textual records]

File consists of annotated copies of the report by Alderdice and Hartman entitled "The Alcan-Federal-Provincial Nechako River Controversy: a case history of why people lose faith in the political process".

"Prespawning Mortalities of Sockeye Salmon in the Fraser River System and Possible Causal Factors", 1990 [0.3 cm of textual records]

File consists of an International Pacific Salmon Fisheries Commission Bulletin entitled "Prespawning Mortalities of Sockeye Salmon in the Fraser River System and Possible Causal Factors".

2003.4.1.34	Cheslatta Carrier Nation and the Kemano Completion Project, 1991-1993 [0.5 cm of textual records] File consists of correspondence and reports from John Hummel and Dana Wagg, Cheslatta Band researchers. Also includes clippings; anti-Kemano propaganda material; copies of Alcan correspondence; "The Story of the Surrender of the Cheslatta Reserves on April 21, 1952"; "Chronology of the Cheslatta Lake Flooding and Subsequent Surrender, Moving and Relocation of the Cheslatta Indian Band as Gleaned from Original Letters, Documents, Interviews, and other Printed and Written Material" compiled by Mike Robertson in 1991; "Kemano 2 Update" report by Dana Wagg; and "Kemanogate: Secret DFO probe quashed, Tapes destroyed" by Dana Wagg.
2003.4.1.35	"The Cheslatta Surrender: A legal analysis of a surrender given by the Cheslatta Carrier Nation to her Majesty the Queen in Right of the Government of Canada on the 21st of April, 1952", Mar. 1992 [2 cm of textual records] File consists of a report entitled "An Analysis of the Cheslatta Surrender" sent to Alderdice from John Hummel, researcher for the band.
2003.4.1.36	"Salmonid Incubation and Rearing Programs for IBM-Compatible Computers", 1992 [0.3 cm of textual records] File consists of a published report entitled "Salmonid Incubation and Rearing Programs for IBM-Compatible Computers". Includes a 5-1/4" floppy disk with the Salmonid Incubation and Rearing Program.
2003.4.1.37	"The Kemano Completion Project: An Example of Science in GovernmentA Brief to the BC Utilities Commission's Review Panel", Feb. 1994 [0.5 cm of textual records] File consists of draft copies of Mundie's brief, "The Kemano Completion Project: An Example of Science in GovernmentA Brief to the BC Utilities Commission's Review Panel". Also includes Alderdice's notes and commentary regarding the brief.
2003.4.1.38	"Restructuring Research: Survival of the Fittest", 25 Mar. 1994 [0.1 cm of textual records] File consists of a copy of "Restructuring Research: Survival of the Fittest", an address to Royal Society Members at the University of Alberta on March 25, 1994.
2003.4.1.39	"Government of Canada Outline of Evidence for the British Columbia Utilities Commission Inquiry into the Kemano Completion Project: Phase 3", Mar. 1994 [0.5 cm of textual records] File consists of Alderdice's copy of "Government of Canada Outline of Evidence for the British Columbia Utilities Commission Inquiry into the Kemano Completion Project: Phase 3". Also includes a document entitled "Questions for Mr. Lemon Relating to the Canadian Government Outline of Evidence", likely written by Alderdice.
2003.4.1.40	"British Columbia Utilities Commission Kemano Completion Project Review - Final Argument Phase V: Rivers Defense Coalition", 7 Sept. 1994 [0.5 cm of textual records] File consists of copy of "British Columbia Utilities Commission Kemano Completion Project Review - Final Argument Phase V: Rivers Defense Coalition" sent to Don Alderdice from Andrew Thompson.
2003.4.1.41	"Kemano Completion Project - Nechako River Summary Statement", Apr. 1994 [0.5 cm of textual records] File consists of copy of "Kemano Completion Project - Nechako River Summary Statement" with annotations and Alderdice's notes relating to the statement.
2003.4.1.42	Correspondence with Rafe Mair, 1995-1997 [0.3 cm of textual records] File consists of copies of outgoing correspondence to Rafe Mair, copies of Harold Mundie's correspondence with Rafe Mair, and correspondence from Connell Lightbody Barristers and Solicitors regarding the Siddon v. Mair court case. Also includes Alderdice's notes regarding the issues discussed, an untitled speech, and a printed email from Rafe Mair.

2003.4.1.43	Controversy between Thomas Siddon and Rafe Mair, 1994-1996 [0.3 cm of textual records] File consists of records relating to the development of the Siddon v. Mair court case. Includes a document written by Alderdice entitled "Notes on Controversy between T. Siddon and Rafe Mair", clippings, correspondence from Connell Lightbody Barristers and Solicitors regarding the case, the 'Statement of Claim' for the Siddon v. Mair case, Alderdice's notes, and the "Statement of Dr. Donald Alderdice" for the case.
2003.4.1.44	"Conceptual Alternatives for a Release Facility at Kenney Dam: An Interim Report of the Kenney Dam Release Facility Working Group", Apr. 1996 [0.3 cm of textual records] File consists of a copy of the "Conceptual Alternatives for a Release Facility at Kenney Dam: An Interim Report of the Kenney Dam Release Facility Working Group", related figures and notes by Alderdice, and a letter to David Lane of the T. Buck Suzuki Foundation regarding the Interim Report.
2003.4.1.45	Letter from J. Harold Mundie to George Baker, Chair of the Standing Committee on Fisheries and Oceans, 29 Dec. 1997 [0.1 cm of textual records] File consists of a copy of letter from J. Harold Mundie to George Baker, the Chair of the Standing Committee on Fisheries and Oceans in the House of Commons. Includes a post-it note from Harold to Don regarding the letter.
2003.4.1.46	"Effects on Sediments and Biota of Cleaning a Salmonid Spawning Channel", 1997 [0.1 cm of textual records] File consists of a reprint of Mundie and Crabtree's article, "Effects on Sediments and Biota of Cleaning a Salmonid Spawning Channel". Also includes a note to Alderdice from Mundie and a humourous note regarding the article entitled "Excerpts from: Critical Reviews of 'Effects on sedimentsetc."
2003.4.1.47	"Is Scientific Inquiry Incompatible with Government Information Control?", 1998 [0.1 cm of textual records] File consists of a copy of the article, "Is Scientific Inquiry Incompatible with Government Information Control?", which includes a section on the Kemano Completion Project.
2003.4.1.48	Clippings regarding the Kemano Completion Project, 1983-1997 [2 cm of textual records] File consists of newspaper clippings and excerpted articles from various B.C. newspapers and magazines regarding the Nechako-Alcan controversy and the Kemano Completion Project. Also includes issues of the Rivers Defense Coalition newsletter and the Telkwa Foundation Newsletter.

Dr. J. Harold Mundie Series

Creator: Dr. J. Harold Mundie

Biographical Sketch: Dr. J. Harold Mundie (1928-June 5, 2012) was born in Aberdeen, Scotland. Mundie graduated from Aberdeen University with honours in Zoology in 1949 and latercompleted a Ph.D. at London University in 1955. He moved to Nanaimo in 1966 to join the Department of Fisheries and Oceans at the Pacific Biological Station as a research scientist. His research focused on the freshwater rearing of salmon and freshwater ecology, in particular food chains in rivers and lakes.

Dates of Creation: 1977-1998

Physical Description: 15 cm of textual records (0.5 boxes)

Scope and Content: Series consists of Mundie's records and collected material related to the Kemano Completion Project. Mainly includes copies of publications related to Mundie's research and activities, such as reprints of journal articles, scientific reports, and government publications. Also includes a small portion of correspondence and internal DFO memoranda regarding the Nechako River court action.

Arrangement: Arranged by the archivist chronologically.

2003.4.2 - Dr. J. Harold Mundie Series File List (Box 3)

_	D1. j. Harou Manaie Series i ne list (Box 5)
	"Concluding Remarks: The Problem in its Setting", 1977 [0.1 cm of textual records] File consists of a photocopy of chapter 11 of "Pacific Salmon: Management for People", edited by Derek Ellis and published by the University of Victoria in 1977. The excerpted chapter, written by J.H. Mundie, is entitled "Concluding Remarks: The Problem in its Setting".
2003.4.2.02	"Chinook Salmon Studies in the Nechako River: 1980, 1981, 1982", Nov. 1983 [0.5 cm of textual] File consists of a published copy of Canadian Technical Report of Fisheries and Aquatic Sciences No. 1728, entitled "Chinook Salmon Studies in the Nechako River: 1980, 1981, 1982".
2003.4.2.03	Memorandum from Mundie regarding preparation for Nechako River court action, 4 Nov. 1985 [0.1 cm of textual records] ***RESTRICTED *** File consists of a scientific memorandum from Harold Mundie to Forbes Boyd regarding "Preparation for Nechako River Court Action", which discusses the a protective flow regime in the Nechako River.
2003.4.2.04	"DFO Policy for the Management of Fish Habitat", Oct. 1986 [0.1 cm of textual records] File consists of a published copy of "Department of Fisheries and Oceans Policy for the Management of Fish Habitat". Also includes a summary document on the policy.
2003.4.2.05	"Predictability of the Consequences of the Kemano Hydroelectric Proposal for Natural Salmon Populations", 1986 [0.1 cm of textual records] File consists of copies of an article from the Canadian Water Resources Journal Vol. 11, No.1, some of which are annotated. Also includes an accompanying memorandum regarding the article.
2003.4.2.06	Memorandum from Fretwell regarding "Nechako Court Action - Possible Remedial Measures to Maintain Productivity at Low Flows", 25 Jun. 1987 [0.3 cm of textual records] File consists of a copy of a memorandum from Fretwell to Levings, Healey and Shirvell regarding "Nechako Court Action - Possible Remedial Measures to Maintain Productivity at Low Flows". Includes two attached documents entitled "Proposed Nechako River Monitoring and Remedial Measures" and "Summary of Remedial Measures Options".
2003.4.2.07	"A Report of the Kemano Task Force: Review of the Environmental Studies Report Submitted by Alcan in Support of the Kemano Completion Proposal in Relation to Continued Fish Production from the Rivers Involved", Aug. 1987 [4 cm of textual records] File consists of the first final draft of the "A Report of the Kemano Task Force: Review of the Environmental Studies Report Submitted by Alcan in Support of the Kemano Completion Proposal in Relation to Continued Fish Production from the Rivers Involved". A second final draft of this report was released in 1990, and a third final draft in 1994. The Report of the Kemano Task Force was never officially published, although it was made available upon request to the public after 1994.
2003.4.2.08	"Overview of Effects of Pacific Coast River Regulation on Salmonids and the Opportunities for Mitigation", 1991 [0.1 cm of textual records] File consists of a reprint of "Overview of Effects of Pacific Coast River Regulation on Salmonids and the Opportunities for Mitigation" from the American Fisheries Society Symposium 10.
2003.4.2.09	"In-Stream Engineering of Fish Habitat Structures in a Large Regulated Central British Columbia River", 1992 [0.1 cm of textual records] File consists of a copy of "In-Stream Engineering of Fish Habitat Structures in a Large Regulated Central British Columbia River" from Interdisciplinary Approaches in Hydrology and Hydrogeology.
2003.4.2.10	INFOmemo regarding "Abundance of Juvenile Chinook Salmon and Steelhead in Winter" by Cole Shirvell, 22 Jan. 1992 [0.1 cm of textual records] File consists of an INFOmemo regarding "Abundance of Juvenile Chinook Salmon and Steelhead in Winter" with information from Cole Shirvell, primarily pertaining to results for the Nechako River.
2003.4.2.11	"The Kemano Completion Project: An Example of Science in Government", Feb. 1994 [0.5 cm of textual records] File consists of Mundie's brief to the BCUC Kemano Completion Project Review Panel entitled "The Kemano Completion Project: An Example of Science in Government".

Dr. Gordon Hartman Series

Creator: Dr. Gordon Hartman

Biographical Sketch: Dr. Gordon Hartman (1927-) is a retired fisheries ecologist, environmental activist, and research scientist. Born in Fraser Lake, B.C., Dr. Gordon Hartman is an internationally known fisheries expert. He completed his education at the University of British Columbia, earning a B.A. (Honours in Zoology) in 1954, a M.A. (Zoology) in 1956, and a Ph.D. (Zoology) in 1964. Hartman held directorship and research positions with the B.C. Fish and Wildlife Branch (1957-1968 and 1972-1977) and the Yukon Fish and Wildlife Branch (1977-1980). In 1980, Hartman joined the Department of Fisheries and Oceans where his research focused on fisheries ecology, fisheries-forestry interaction, and the effects of forest harvest on fish populations. Hartman also participated in the DFO's review of the Kemano Completion Project until his retirement from the Department in 1987. Hartman has also taught at the university level at a number of institutions, including the University of Guelph, Addis Ababa University, and Malaspina University-College. Since his retirement, Hartman has continued to advocate for British Columbia fisheries by participating in the British Columbia Utilities Commission review of the Kemano Completion Project and working with the Rivers Defense Coalition, the B.C. Wildlife Federation, and many other environmental groups.

Dates of Creation: 1974-2001

Physical Description: 2 m of textual records (5.5 boxes)

Scope and Content: Series consists of Hartman's records and collected material related to his activities as a research scientist, particularly his involvement in the Kemano Completion Project. The majority of the material consists of copies of publications related to Hartman's research, many of which were written or annotated by him, such as reprints of journal articles, draft scientific reports, government publications, and newspaper clippings. Includes correspondence regarding the Nechako River court action between DFO, Alcan, and the province and scientific reports that were created in anticipation of the case. Also includes significant material emanating from the British Columbia Utilities Commission Kemano Completion Project Public Review, such as correspondence, BCUC newsletters and news releases, exhibits and evidence submitted to the review panel, documents produced for the hearings, and the final report. In addition, includes records and publications relating to the Nechako Fisheries Conservation Program, the Nechako Watershed Council, the Nechako Environmental Enhancement Fund, and the Nechako River Alliance.

Arrangement: Arranged by the archivist chronologically.

2003.4.3 - Dr. Gordon Hartman Series File List (Box 3-8)

2003.4.3.001	"Report on the Fisheries Problems Created by the Development of Power in the Nechako-Kemano-Nanika River Systems - Supplement No. 1: Temperature Changes in the Nechako River and Their Effects on the Salmon Populations", [between 1980 and 1994] [1 cm of textual records] File consists of "Report on the Fisheries Problems Created by the Development of Power in the Nechako-Kemano-Nanika River Systems - Supplement No. 1: Temperature Changes in the Nechako River and Their Effects on the Salmon Populations". The report was prepared by the Department of Fisheries of Canada and the International Pacific Salmon Fisheries Commission.
2003.4.3.002	"Kemano II Environmental Studies: Nechako River", [1974?] [2 cm of textual records] File consists of "Kemano II Environmental Studies: Nechako River". Item is a photocopy of an annotated draft. Includes copies of pull-out maps and figures.
2003.4.3.003	"Morphological Effects of Interbasin River Diversions", 1979 [0.1 cm of textual records] File consists of a copy of a reprint from the Canadian Journal of Civil Engineering (vol. 6, iss. 1) entitled "Morphological Effects of Interbasin River Diversions".
2003.4.3.004	"Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 1: Summary", Feb. 1979 [0.3 cm of textual records] File consists of "Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 1: Summary". Annotated by Gordon Hartman.
2003.4.3.005	"Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 2: Sockeye Salmon Studies on the Nechako River", Feb. 1979 [0.5 cm of textual records] File consists of "Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 2: Sockeye Salmon Studies on the Nechako River". Annotated by Gordon Hartman.
2003.4.3.006	"Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 3: Chinook Salmon Studies on the Nechako River", Feb. 1979 [0.5 cm of textual records] File consists of "Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 3: Chinook Salmon Studies on the Nechako River". Annotated by Gordon Hartman.
2003.4.3.007	"Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 4: Limnology of Morice Lake", Feb. 1979 [0.5 cm of textual records] File consists of "Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 4: Limnology of Morice Lake" by T.R. Cleugh and B.C. Lawley.
2003.4.3.008	"Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 5: Salmon Studies on Nanika and Morice Rivers and Morice Lake", Feb. 1979 [1 cm of textual records] File consists of "Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 5: Salmon Studies on Nanika and Morice Rivers and Morice Lake" by Bruce Shepherd.
	"Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 6: Hydrographical Studies Associated with Salmon in the Nanika and Morice Rivers", Feb. 1979 [1 cm of textual records] File consists of "Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 6: Hydrographical Studies Associated with Salmon in the Nanika and Morice Rivers" by R.A. Robertson, B.R. Eliasen, and O.K. Johansen.
2003.4.3.010	"Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 7: The Economic and Social Impact of the Kemano II Hydroelectric Project on British Columbia's Fisheries Resources", Feb. 1979 [2 cm of textual records] File consists of "Salmon Studies Associated with the Potential Kemano II Hydroelectric Development - Volume 7: The Economic and Social Impact of the Kemano II Hydroelectric Project on British Columbia's Fisheries Resources" by William Sinclair.

2003.4.3.011	"Assessment of the Impact of the Kemano II Proposal on the Fish and Wildlife Resources of the Nanika-Kidprice and Morice Systems", 1979 [1 cm of textual records] File consists of "Assessment of the Impact of the Kemano II Proposal on the Fish and Wildlife Resources of the Nanika-Kidprice and Morice Systems". Includes appendices to the report with raw data.
2003.4.3.012	Utilization of the Nechako River by Chinook salmon, 1980 [0.1 cm of textual records] File consists of a draft paper from B.D. Tutty entitled "Utilization of Chinook Salmon Rearing in the Upper Nechako River", a paper by S.A. Macfarlane entitled "Utilization of the Nechako River by Chinook Salmon", and a summary of observation made and data recorded on rearing chinook salmon fry in the Nechako River by Department of Fisheries and Oceans' staff during field trips conducted from April 29 to May 2, 1980 and from June 23-29, 1980.
2003.4.3.013	"Chinook Salmon (Oncorhynchus tshawytscha) Fry and Smolt Enumeration/Marking Project, Nechako and Quesnel/Horsefly Rivers, B.C.", Jan. 1980 [2 cm of textual records] File consists of report entitled "Chinook Salmon (Oncorhynchus tshawytscha) Fry and Smolt Enumeration/Marking Project, Nechako and Quesnel/Horsefly Rivers, B.C." by W.R. Olmsted, P.W. Delaney, T.L. Slaney and G.A. Vigers of EVS Consultants for DFO.
2003.4.3.014	"Alcan Environmental Baseline Studies: A Critique", Dec. 1981 [0.3 cm of textual records] File consists of a paper written by W.G. Hazelwood entitled "Alcan Environmental Baseline Studies: A Critique".
2003.4.3.015	Telkwa Foundation Newsletter, 1983 [0.1 cm of textual records] File consists of the Spring 1983 issue of the Telkwa Foundation Newsletter, Vol. 6, No. 1. Headline story is "The Sovereign State of Alcan" by Richard Overstall.
2003.4.3.016	"A Preliminary Review of and Comments on the Aluminum Company of Canada Ltd. Proposal for Kemano Completion", Aug. 1983 [0.5 cm of textual records] File consists of a review paper by Hartman entitled "A Preliminary Review of and Comments on the Aluminum Company of Canada Ltd. Proposal for Kemano Completion", which was a response to a request to look at rearing biology of salmonids in relation to flow regimes proposed by Envirocon Ltd. and their clients, the Aluminum Company of Canada.
2003.4.3.017	"A Critique of the Instream Flow Incremental Methodology", 1985 [0.1 cm of textual records] File consists of a copy of an article by Mathur et al. entitled "A Critique of the Instream Flow Incremental Methodology" from the Canadian Journal of Fisheries and Aquatic Sciences, Vol. 42.
2003.4.3.018	Miscellaneous papers obtained by the Cheslatta Carrier Nation under the Access to Information Act, 1984-1987 [2 cm of textual records] File consists of copies of documents obtained by the Cheslatta Carrier Nation under the Access to Information Act. Includes incoming and outgoing correspondence and memoranda from the BC Ministry of Energy, Mines and Petroleum Resources; Alcan Aluminum Company of Canada Ltd.; Department of Fisheries and Oceans; and Cheslatta Band. Also includes DFO review sheets for their review of Kemano Completion documents and a paper by W.T. Stanbury entitled "Notes on the Analysis of Risk in the DFO-Alcan Case".
2003.4.3.019	Correspondence from Don Alderdice, Harold Mundie, and Cole Shirvell, 1984-1990 [1 cm of textual records] ***RESTRICTED*** File consists of copies of memoranda from Don Alderdice, Harold Mundie, and Cole Shirvell during their time at the Department of Fisheries and Oceans. Also includes a letter from Alderdice to Schouwenburg post-retirement regarding the Kemano Task Force.

2003.4.3.020	Correspondence from William J. Schouwenburg, 1986-1991 [1 cm of textual records] ***RESTRICTED***
	File consists of copies of memoranda from Bill Schouwenburg at the Department of Fisheries and Oceans. Also includes post-retirement correspondence and the Curriculum Vitae of William Schouwenburg.
2003.4.3.021	Nechako River, British Columbia: Flow Requirements for Fish and Fish Habitat, 10 Feb. 1986 [1 cm
	of textual records]
	File consists of a draft regional technical position of the Department of Fisheries and Oceans entitled
	"Nechako River, British Columbia: Flow Requirements for Fish and Fish Habitat". The paper may have been written by Gordon Ennis. Annotated by Gordon Hartman.
2003 4 3 022	"Case Histories of Regulated Stream Flow and its Effects on Salmonid Populations", July 1986 [0.5
2003.4.3.022	cm of textual records]
	File consists of Canadian Technical Report of Fisheries and Aquatic Sciences No. 1477 entitled "Case
	Histories of Regulated Stream Flow and its Effects on Salmonid Populations" by D.W. Burt and J.H. Mundie.
2003.4.3.023	"A Study of Some Aspects of the Geomorphology of the Nechako River", 20 Feb. 1987 [2 cm of
	textual records]
	File consists of the Feb. 1987 version of "A Study of Some Aspects of the Geomorphology of the Nechako River" by K.M. Rood of Reid Crowther & Partners Ltd.
2003.4.3.024	1987 Settlement Agreement, 14 Sept. 1987 [0.3 cm of textual records]
	File consists of a copy of the 1987 settlement agreement between Alcan Aluminum Limited; Canada,
	represented by the Minister of Fisheries and Oceans; and British Columbia, represented by the
	Minister of Energy, Mines and Petroleum Resources. Also includes an annotated copy of the "Summary Report of the Nechako River Working Group" and a news release regarding the
	settlement agreement.
2003.4.3.025	Fraser River flow analysis and fish passage capacity at Hell's Gate, 1987-1989 [0.3 cm of textual
	records]
	File consists of memoranda from Per Saxvik to Bell-Irving regarding "Fraser River Flow Analysis with Reference to Fish Passage Capacity through the Main Fishways at Hell's Gate". Also includes a
	"Fraser River Canyon Fish Passage Summary Report (June 1988) Updated October 1989" by Per
	Saxvik of SEP Engineering.
2003.4.3.026	"Impacts of Alcan's Kemano Project and the Federal-Provincial-Alcan Agreement on Salmon
	Populations of the Nechako and Fraser Rivers", Mar. 1988 [0.3 cm of textual records]
	File consists of report prepared by Mike Morrell for Save The Bulkley entitled "Impacts of Alcan's
	Kemano Project and the Federal-Provincial-Alcan Agreement on Salmon Populations of the Nechako and Fraser Rivers".
2003.4.3.027	Nechako Fisheries Conservation Program Annual Reports 1989/90 and 1990/91, 1989-1991 [2 cm
	of textual records]
	File consists of the annual reports of the Nechako Fisheries Conservation Program for the years
	1989/90 and 1990/91, annotated by Gordon Hartman.
2003.4.3.028	"A Report of the Kemano Task Force: Review of the Environmental Studies Report Submitted by Alcan in Support of the Kemano Completion Proposal in Relation to Continued Fish Production
	from the Rivers Involved", Apr. 1990 [3 cm of textual records]
	File consists of the second final draft of the "A Report of the Kemano Task Force: Review of the
	Environmental Studies Report Submitted by Alcan in Support of the Kemano Completion Proposal in
	Relation to Continued Fish Production from the Rivers Involved". The first final draft of this report
	was released in August 1987, a second final draft was released in April 1990, and a third final draft in
	1994. The Report of the Kemano Task Force was never officially published, although it was made available upon request to the public after 1994. This copy annotated in depth by Hartman.
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2003.4.3.029 Hartman's notes for "Nechako: A River Worth Saving" public session in Vanderhoof, May 1990 [1 cm of textual records File consists of an agenda for a weekend conference held May 26-27, 1990 at the Friendship Centre in Vanderhoof entitled "Nechako: A River Worth Saving". Includes Hartman's handwritten notes for a talk he gave at the public session. According to Hartman, "at this meeting, it was made public for the first time that the key DFO scientists did not support the flows established in the 1987 settlement agreement". 2003.4.3.030 Revised Sport Fisheries Management Plan for the Nechako River and the Murray/Cheslatta System", May 1990 [1 cm of textual records] File consists of Ableson and Slaney's "Revised Sport Fisheries Management Plan for the Nechako River and the Murray/Cheslatta System". Annotated by Hartman. 2003.4.3.031 "Channel Changes in Kemano River to Date and Expected Future Changes from Kemano Completion Project", 28 Sept. 1990 [0.3 cm of textual records] File consists of a copy of Peter Ward's report on "Channel Changes in Kemano River to Date and Expected Future Changes from Kemano Completion Project". 2003.4.3.032 The Alcan-Federal-Provincial Nechako River Controversy: A Case History of Why People Lose Faith in the Political Process", Dec. 1990 [0.5 cm of textual records] File consists of Hartman's copy of his paper with Alderdice entitled "The Alcan-Federal-Provincial Nechako River Controversy: A Case History of Why People Lose Faith in the Political Process". Annotated by Hartman. 2003.4.3.033 Daily discharge and water level data for Nechako and Fraser Rivers, 1990 [0.3 cm of textual records] File consists of copy of data published in unknown source. Includes daily discharge and water level data for Nechako and Fraser Rivers. 2003.4.3.034 Carrier Sekani Tribal Council, Department of Fisheries and Oceans, and Aluminum Company of Canada Meeting, January 13-15, 1988, Simon Fraser Inn, Prince George, B.C., 1988 [2 cm of textual records] File consists of the second draft of a transcript of the meeting between the Department of Fisheries and Oceans (represented by Bell-Irving, Fretwell, and Blacket), the Aluminum Company of Canada (represented by Bill Rich, Brian Hemmingway, Doug Bruchet, Bruce Jenkins, and Clyde Mitchell), and the Carrier Sekani Tribal Council (Edward John, Justa Monk, Morris Joseph, et al) regard studies conducted by the Department of Fisheries and Oceans and the Aluminum Company of Canada Ltd. on the Nechako River and its resources. Document sent to Hartman by John Hummel, Cheslatta Band researcher, who included an accompanying letter. Annotated by John Hummel. 2003.4.3.035 Cheslatta Carrier Nation and Carrier Sekani Tribal Council correspondence and documents, 1987-1994 [2 cm of textual records] File consists predominantly of faxed correspondence and documents from the Cheslatta Carrier Nation and the Carrier Sekani Tribal Council. These documents include copies of newspaper clippings, news releases, publicity material regarding Cheslatta Band's position on the Kemano Completion Project, briefing notes, documents written by Dana Wagg, correspondence from Alcan to the Band, and copies of released Department of Fisheries and Oceans memoranda. Also includes "The Story of the Surrender of the Cheslatta Reserves on April 21, 1952" by Mike Robertson; a copy of a "Proposal for an Agreement between the Government Commission of the Gitksan Wet'suwet'en People and the Vera Corporation regarding the Nanika River Project" of November 13, 1991; and a

1984 paper by Megan Swail entitled "The Kemano Completion Project: Selected Legal Issues".

2003.4.3.036	Correspondence and memoranda from Cheslatta Carrier Nation and Carrier Sekani Tribal Council, 1986-1989, 1986-1989 [0.5 cm of textual records] File consists predominantly of copied and faxed Department of Fisheries and Oceans memoranda
	and correspondence from 1986-1989, likely obtained through an Access to Information request from the Cheslatta Carrier Nation. Some items were also used as exhibits in the British Columbia Utilities Commission Kemano Completion Project Review.
2003.4.3.037	Correspondence and memoranda from Cheslatta Carrier Nation and Carrier Sekani Tribal Council, 1990-1993, 1990-1993 [1 cm of textual records]
	File consists predominantly of copied and faxed Department of Fisheries and Oceans memoranda and correspondence from 1990-1993, likely obtained through an Access to Information request from the Cheslatta Carrier Nation. Also includes correspondence regarding the British Columbia Utilities Commission Kemano Completion Project Review.
2003.4.3.038	Correspondence and memoranda from Cheslatta Carrier Nation and Carrier Sekani Tribal Council,
	1994, 1994 [2 cm of textual records]
	File consists of correspondence and memoranda from the Cheslatta Band and Carrier Sekani Tribal Council relating to the British Columbia Utilities Commission Kemano Completion Project Review of 1994. Includes copied and faxed correspondence and informational material.
2003.4.3.039	Informational material from Cheslatta Carrier Nation by Dana Wagg and John Hummel, 1992-1993 [1 cm of textual records]
	File consists of informational material sent to Hartman from Cheslatta Carrier Nation by researchers Dana Wagg and John Hummel leading up the BCUC Kemano Completion Project Review.
2003.4.3.040	"The Cheslatta Surrender: A Legal Analysis of a Surrender Given by the Cheslatta Carrier Nation to
	her Majesty the Queen in right of the Government of Canada on the 21st of April, 1952", Aug.
	1992 [2 cm of textual records]
	File consists of a Cheslatta Carrier Nation publication entitled "The Cheslatta Surrender: A Legal Analysis of a Surrender Given by the Cheslatta Carrier Nation to her Majesty the Queen in right of the Government of Canada on the 21st of April, 1952".
2003.4.3.041	Anti-Alcan Promotional Material, 1992-2003 [0.5 cm of textual records]
	File consists of promotional material created by various groups against Alcan's Kemano Completion Project. Includes pamphlets from Cheslatta Carrier Nation, Rivers Defense Coalition, and the Lake & Stream Biological Habitat Enhancement Society. Also includes a Nechako Environmental Coalition Newsletter, a Wilderness Society Newsletter, Harvey Brooks' "Presentation to the B.C.U.C. on the Kemano Completion Project", a Carrier Sekani Tribal Council news release, and copies of Kemano-related newspaper clippings.
2003.4.3.042	Tahtsa Narrows dredging, 1993 [1 cm of textual records] File consists of reference material regarding the Tahtsa Narrows dredging. Includes copied pages from Envirocon's Vol. 20 on reservoir levels pre- and post-Kemano, a sampling summary report for Tahtsa Narrows, a report entitled "Studies of the Fish Fauna and Benthic Invertebrate Populations of Tahtsa Narrows, Nechako Reservoir, British Columbia", and a report entitled "Studies of the Fish Fauna of West Tahtsa Lake, Nechako Reservoir, British Columbia".
2003.4.3.043	"Investigation of the Flushing of Accumulated Sediments from the Nechako Canyon", Dec. 1991
	[0.5 cm of textual records] File consists of a faxed copy of a Triton Environmental Consultants report prepared for Alcan entitled "Investigation of the Flushing of Accumulated Sediments from the Nechako Canyon".
2003.4.3.044	"Kemano Completion Project: Nechako Reservoir Flood Forecasting and Operating Study", May 1992 [2 cm of textual records]
	File consists of an original Klohn Leonoff report prepared for Alcan entitled "Kemano Completion Project: Nechako Reservoir Flood Forecasting and Operating Study".
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2003.4.3.045	"Impacts of Alcan's Kemano Projects", 14 Sept. 1992 [0.5 cm of textual records] File consists of a report written by Mike Morrell for the Rivers Defense Coalition entitled "Impacts of Alcan's Kemano Projects".
2003.4.3.046	"Alcan's Kemano Project: Options and Recommendations", Oct. 1992 [1 cm of textual records] File consists of Rankin and Finlay report entitled "Alcan's Kemano Project: Options and Recommendations". Annotated by Dr. Gordon Hartman and/or John Hummel, Cheslatta Band researcher.
2003.4.3.047	"Greer Creek Habitat Enhancement: Proposal to Provide Professional Services", Nov. 1992 [0.3 cm of textual records] File consists of photocopy of Triton Environmental Consultants proposal for "Greer Creek Habitat Enhancement".
2003.4.3.048	"Initial Survey: Stomach Contents of Potential Fish Predators of Juvenile Chinook Salmon (Oncorhynchus tshawytscha) in the Nechako River, B.C.", 1992 [0.3 cm of textual records] File consists of Canadian Technical Report of Fisheries and Aquatic Sciences by Brown et al. entitled ""Initial Survey: Stomach Contents of Potential Fish Predators of Juvenile Chinook Salmon (Oncorhynchus tshawytscha) in the Nechako River, B.C."
2003.4.3.049	"Trends in the Abundance of Chinook Salmon of the Nechako River, British Columbia", 28 Oct. 1993 [0.5 cm of textual records] File consists of a paper by Michael Bradford entitled "Trends in the Abundance of Chinook Salmon of the Nechako River, British Columbia".
2003.4.3.050	"Sold Down the River", Dec. 1993 [1 cm of textual records] File consists of a December 1993 issue of Harrowsmith (Vol.18:4, iss. 112) that features an article by John Goddard entitled "Sold Down the River" regarding the Kemano Completion Project controversy.
2003.4.3.051	"The Nechako River: A River in Crisis - Summary Impacts of the Proposed Kemano Completion Project", 17 Jan. 1994 [0.5 cm of textual records]
	File consists of copied papers by Dennis Ableson, Fisheries Biologist, faxed from the Carrier Sekani Tribal Council and Cheslatta Band Offices to Hartman. Includes "The Nechako River: A River in Crisis - Summary Impacts of the Proposed Kemano Completion Project", a presentation that Ableson made to the American Fisheries Society at the Aboriginal Fisheries Conference.
2003.4.3.052	File consists of copied papers by Dennis Ableson, Fisheries Biologist, faxed from the Carrier Sekani Tribal Council and Cheslatta Band Offices to Hartman. Includes "The Nechako River: A River in Crisis - Summary Impacts of the Proposed Kemano Completion Project", a presentation that Ableson made
2003.4.3.053	File consists of copied papers by Dennis Ableson, Fisheries Biologist, faxed from the Carrier Sekani Tribal Council and Cheslatta Band Offices to Hartman. Includes "The Nechako River: A River in Crisis - Summary Impacts of the Proposed Kemano Completion Project", a presentation that Ableson made to the American Fisheries Society at the Aboriginal Fisheries Conference. "Kemano River Survey - 1950: Biological Investigations", 1994 [0.3 cm of textual records] File consists of a 1994 copy of a report from 1952 entitled "Kemano River Survey - 1950: Biological
2003.4.3.053	File consists of copied papers by Dennis Ableson, Fisheries Biologist, faxed from the Carrier Sekani Tribal Council and Cheslatta Band Offices to Hartman. Includes "The Nechako River: A River in Crisis - Summary Impacts of the Proposed Kemano Completion Project", a presentation that Ableson made to the American Fisheries Society at the Aboriginal Fisheries Conference. "Kemano River Survey - 1950: Biological Investigations", 1994 [0.3 cm of textual records] File consists of a 1994 copy of a report from 1952 entitled "Kemano River Survey - 1950: Biological Investigations". Authorship is attributed to an unknown Department of Fisheries biologist. "The Effects on Sport Fisheries of the Aluminum Company of Canada Limited Development in the Nechako Drainage", 1994 [1 cm of textual records] File consists of a 1994 re-working of Lyons and Larkin's original 1952 Fisheries Management Report entitled "The Effects on Sport Fisheries of the Aluminum Company of Canada Limited Development in the Nechako Drainage". The report was retyped and pictures were added for the British Columbia

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	British Columbia Utilities Commission Kemano Completion Project Public Review correspondence,
	1993-1994 [2 cm of textual records] File consists of correspondence relating to the British Columbia Utilities Commission Kemano Completion Project Public Review. Includes copied and original correspondence to and from Gordon Hartman; Bill Rich (Alcan); Dr. Gregory Lawrence; Thom Thompson (BC Hydro); LLL&M Barristers and Solicitors (for Alcan); Fraser & Beatty Barristers and Solicitors (for Rivers Defense Coalition); Premier Mike Harcourt; Moe Sihota, BC Minister of Environment, Land and Parks; Brian Tobin, Minister of Fisheries; the Nechako Environmental Coalition; and Robert Pellat, BCUC Commission Secretary. Also includes a list of relevant sections of the Utilities Commission Act for Kemano, an "Order in the Matter of the Utilities Commission Actand A Public Review of the Kemano Completion Project", meeting minutes for BCUC sessions, the "KCP Registered Participant List", a schedule for a Kemano tour, and copies of related articles. British Columbia Utilities Commission newsletter and news releases, 1993-1994 [1 cm of textual
	records]
	File consists of British Columbia Utilities Commission newsletter and news releases for the Kemano Completion Project Public Review which were distributed to participants in the Review process.
	Hartman's analysis of exhibits for the British Columbia Utilities Commission Kemano Completion
	Project Public Review, [1994] [0.3 cm of textual records] File consists of Hartman's handwritten notes about some of the exhibits for the BCUC Kemano public review. Includes a copy of exhibit 400, "Notes from Strangway Working Group", annotated in depth by Hartman.
	British Columbia Utilities Commission Kemano Completion Project Public Review: List of Exhibits,
	1994 [0.3 cm of textual records] File consists of an incomplete list of the BCUC Kemano Completion Project Review "A" list of exhibits. Also includes "Exhibit List Part 'B': Public File", which lists documents available in the public file.
	British Columbia Utilities Commission Kemano Completion Project Public Review: Public File Document List and Index (Version no. 3), 20 Jan. 1994 [2 cm of textual records] File consists of the Document List and Index for the British Columbia Utilities Commission Kemano Completion Project Public Review: Public File (Version no. 3).
	List of released documents from the Department of Fisheries and Oceans, 14 Mar. 1994 [4 cm of
	textual records] File consists of a list of documents from the Department of Fisheries and Oceans that were created between 1977 and 1994 and released to the public through Access to Information Act requests and/or for the British Columbia Utilities Commission. The list includes requested records that were not made available because they are exempt from the Access to Information Act.
	"Kemano Completion Project Outline", Oct. 1993 [2 cm of textual records] File consists of the "Kemano Completion Project Outline" that Alcan prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
	Alcan's Outline of Evidence for BCUC - "Technical Hearing Phase One: KCP Facilities and Operation Outline of Evidence", 5 Nov. 1993 [1 cm of textual records] File consists of Alcan's "Outline of Evidence" for Technical Hearing Phase One: KCP Facilities and Operation for the British Columbia Utilities Commission Kemano Completion Project Review.
	Alcan's Outline of Evidence for BCUC - "Technical Hearing Phase Two: Hydrology Outline of Evidence", Dec. 1993 [2 cm of textual records] File consists of Alcan's "Outline of Evidence" for Technical Hearing Phase Two: Hydrology for the British Columbia Utilities Commission Kemano Completion Project Review.

2003.4.3.065	Alcan's Outline of Evidence for BCUC - "Technical Hearing Phase Three: Fisheries Outline of Evidence (Volume 1)", Dec. 1993 [3 cm of textual records]
	File consists of Alcan's "Outline of Evidence" for Technical Hearing Phase Three: Fisheries (Volume 1) for the British Columbia Utilities Commission Kemano Completion Project Review.
2003.4.3.066	Alcan's Outline of Evidence for BCUC - "Technical Hearing Phase Three: Fisheries Outline of Evidence (Volume 2)", Dec. 1993 [2 cm of textual records]
	File consists of Alcan's "Outline of Evidence" for Technical Hearing Phase Three: Fisheries (Volume 2) for the British Columbia Utilities Commission Kemano Completion Project Review.
2003.4.3.067	"Kemano Completion Project Review: Information Request No. 2", 24 Dec. 1993 [0.5 cm of textual records]
	File consists of Alcan's "Kemano Completion Project Review: Information Request No. 2" prepared for the British Columbia Utilities Commission.
2003.4.3.068	"Government of Canada Outline of Evidence for the British Columbia Utilities Commission Inquiry into the Kemano Completion Project: Phase 3", Mar. 1994 [0.5 cm of textual records] File consists of the "Government of Canada Outline of Evidence for the British Columbia Utilities Commission Inquiry into the Kemano Completion Project: Phase 3".
2003.4.3.069	"Government of Canada Outline of Evidence for the British Columbia Utilities Commission Inquiry into the Kemano Completion Project: Phase 4", 17 June 1994 [0.3 cm of textual records] File consists of the "Government of Canada Outline of Evidence for the British Columbia Utilities Commission Inquiry into the Kemano Completion Project: Phase 4".
2003.4.3.070	British Columbia Utilities Commission Public Review of the Kemano Completion Project - Nechako Fisheries Conservation Program Summary of Evidence for Technical Hearing Phase Three: Fisheries, Mar. 1994 [1 cm of textual records] File consists of the "British Columbia Utilities Commission Public Review of the Kemano Completion Project - Nechako Fisheries Conservation Program Summary of Evidence for Technical Hearing Phase Three: Fisheries".
	British Columbia Utilities Commission Public Review of the Kemano Completion Project - Rivers Defense Coalition Outline of Evidence for Technical Hearing Phase Four: Environmental, Social, Economic and other Community Impacts, 10 June 1994 [0.3 cm of textual records] File consists of the "British Columbia Utilities Commission Public Review of the Kemano Completion Project - Rivers Defense Coalition Outline of Evidence for Technical Hearing Phase Four".
	British Columbia Utilities Commission Public Review of the Kemano Completion Project - Technical Hearing Phase 5: Final Argument for Rivers Defense Coalition, Sept. 1994 [1 cm of textual records] File consists of the British Columbia Utilities Commission Public Review of the Kemano Completion Project Technical Hearing Phase 5: Final Argument for Rivers Defense Coalition.
2003.4.3.073	British Columbia Utilities Commission Public Review of the Kemano Completion Project Technical Hearings, 1994 [0.5 cm of textual records] File consists of various documents relating to the BCUC KCP Public Review Technical Hearings. Includes hearing transcripts, the "Final Argument of Ben B. Meisner", and correspondence from BCUC regarding the technical hearings.
2003.4.3.074	"United Fisherman and Allied Workers Union Locals #31 and #37 Brief to the B.C. Utilities Commission" for the Kemano Completion Project Review, 9 Nov. 1993 [0.3 cm of textual records] File consists of "United Fisherman and Allied Workers Union Locals #31 and #37 Brief to the B.C. Utilities Commission" for the Kemano Completion Project Review.
2003.4.3.075	"A Brief for Presentation to the B.C. Utilities Commission Review Panel on the Kemano Completion Project" by G.F. Hartman, Nov. 1993 [2 cm of textual records] File consists of "A Brief for Presentation to the B.C. Utilities Commission Review Panel on the Kemano Completion Project by G.F. Hartman". Annotated by Hartman.

2003.4.3.076	"A Brief on the Kemano Completion Project's Hydrothermal and Internal Wave Modelling" by G.A. Lawrence, 26 Jan. 1994 [0.3 cm of textual records] File consists of "A Brief on the Kemano Completion Project's Hydrothermal and Internal Wave Modelling" by G.A. Lawrence.
2003.4.3.077	"The Kemano Completion Project: An Example of Science in Government - A Brief to the B.C. Utilities Commission's Review Panel" by J.H. Mundie, Feb. 1994 [0.5 cm of textual records] File consists of "The Kemano Completion Project: An Example of Science in Government - A Brief to the B.C. Utilities Commission's Review Panel" by J.H. Mundie.
2003.4.3.078	"Submission to the B.C. Utilities Commission Public Review of the Kemano Completion Project" by William J. Schouwenburg, [1994] [0.5 cm of textual records] File consists of a "Submission to the B.C. Utilities Commission Public Review of the Kemano Completion Project" by William J. Schouwenburg.
2003.4.3.079	C.S. Shirvell's Brief to the B.C. Utilities Commission Review Panel, Mar. 1994 [0.5 cm of textual records] File consists of C.S. Shirvell's Brief to the B.C. Utilities Commission Review Panel regarding the Kemano Completion Project's effect on the Nechako River.
2003.4.3.080	"Nechako Fisheries Conservation Program Reports: Annual Reports (Volume 1)", 1994 [4 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Annual Reports (Volume 1)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.081	"Nechako Fisheries Conservation Program Reports: Monitoring - 1988 (Volume 1)", 1994 [6 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Monitoring - 1988 (Volume 1)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.082	"Nechako Fisheries Conservation Program Reports: Monitoring - 1989 (Volume 2)", 1994 [6 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Monitoring - 1989 (Volume 2)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.083	"Nechako Fisheries Conservation Program Reports: Monitoring - 1990 (Volume 3)", 1994 [4 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Monitoring - 1990 (Volume 3)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.084	"Nechako Fisheries Conservation Program Reports: Monitoring - 1991 (Volume 4)", 1994 [6 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Monitoring - 1991 (Volume 4)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.085	"Nechako Fisheries Conservation Program Reports: Monitoring - 1992 (Volume 5)", 1994 [4 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Monitoring - 1992 (Volume 5)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.

2003.4.3.086	"Nechako Fisheries Conservation Program Reports: Monitoring - 1993 (Volume 6)", 1994 [1 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Monitoring - 1993 (Volume 6)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.087	"Nechako Fisheries Conservation Program Reports: Applied Research - 1989 (Volume 1)", 1994 [1 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Applied Research - 1989 (Volume 1)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.088	"Nechako Fisheries Conservation Program Reports: Applied Research - 1990 (Volume 2)", 1994 [4 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Applied Research - 1990 (Volume 2)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.089	"Nechako Fisheries Conservation Program Reports: Applied Research - 1990 (Volume 2A)", 1994 [0.5 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Applied Research - 1990 (Volume 2A)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.090	"Nechako Fisheries Conservation Program Reports: Applied Research - 1991 (Volume 3)", 1994 [1 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Applied Research - 1991 (Volume 3)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.091	"Nechako Fisheries Conservation Program Reports: Applied Research - 1992 (Volume 4)", 1994 [0.3 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Applied Research - 1992 (Volume 4)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.092	"Nechako Fisheries Conservation Program Reports: Applied Research - 1993 (Volume 5)", 1994 [0.3 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Applied Research - 1993 (Volume 5)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.093	"Nechako Fisheries Conservation Program Reports: Appendices to M91-7 Nechako River - Gravel Sample Analysis", 1994 [6 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Appendices to M91-7 Nechako River - Gravel Sample Analysis" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.094	"Nechako Fisheries Conservation Program Reports: Remedial Measures - 1989 (Volume 2)", 1994 [4 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Remedial Measures - 1989 (Volume 2)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.

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2003.4.3.095	"Nechako Fisheries Conservation Program Reports: Remedial Measures - 1991 (Volume 4)", 1994 [4 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Remedial Measures - 1991 (Volume 4)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
	"Nechako Fisheries Conservation Program Reports: Remedial Measures - 1992 (Volume 5)", 1994 [4 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Remedial Measures - 1992 (Volume 5)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.097	"Nechako Fisheries Conservation Program Reports: Remedial Measures - 1993 (Volume 6)", 1994 [2 cm of textual records] File consists of "Nechako Fisheries Conservation Program Reports: Remedial Measures - 1993 (Volume 6)" prepared for the British Columbia Utilities Commission Public Review of the Kemano Completion Project.
2003.4.3.098	"The Economic Impact of the Kemano Completion Project on the Communities of Kitimat and Terrace" brief to BCUC, Apr. 1994 [0.3 cm of textual records] File consists of the Kitimat and Terrace Chambers of Commerce's brief to the BCUC Kemano Completion Project Review entitled "The Economic Impact of the Kemano Completion Project on the Communities of Kitimat and Terrace".
2003.4.3.099	"A Brief of the Nechako Valley Regional Cattlemen's Association to the British Columbia Utilities Commission Concerning the Kemano Completion Project", 9 June 1994 [0.5 cm of textual records] File consists of "A Brief of the Nechako Valley Regional Cattlemen's Association to the British Columbia Utilities Commission Concerning the Kemano Completion Project".
	House of Commons Debates regarding the Kemano Completion Project, 1993 [0.3 cm of textual records] File consists of copies of House of Commons debates for May 28, 1993. Brian Gardiner, MP for Prince George-Bulkley Valley made a motion "That this House condemns the government for its failure to protect Canadian interests regarding the interbasin transfer of water as exemplified by the Kemano project, the North Thompson River, and both the Columbia River Treaty and the North American free trade agreement."
	British Columbia Utilities Commission Kemano Completion Project Public Review, 1992-1994 [1 cm of textual records] File consists of various documents relating to the British Columbia Utilities Commission Kemano Completion Project Public Review. Includes copies of correspondence from the Nechako Environmental Coalition; the Nechako Valley Regional Cattlemen's Association; Thom Thompson (BC Hydro); British Columbia Utilities Commission; the Nechako Fisheries Conservation Program; David Strangway; and P.A. Larkin. Also includes "Terms of Reference in the Matter of the Utilities Commission Act
	Persons involved in the Alcan Kemano controversy, [ca. 1994] [0.3 cm of textual records] File consists of a list of persons involved in the Alcan Kemano controversy and an accompanying letter encouraging the need for a review of the affair.
	Alcan promotional material for the Kemano Completion Project, 1994 [0.5 cm of textual records] File consists of various promotional materials produced by Alcan regarding the Kemano Completion Project. Includes "Alcan in British Columbia" newsletter (vol. 5, no. 4), a transcript of an Alcan press conference, an Alcan Special Report entitled "Flows Designed to Protect Salmon: Comprehensive Report on Nechako River Flows After Kemano Completion Project", an article entitled "Kemano: Energy for the Future", "The Kemano Completion Project" pamphlet, and a May 1994 newsletter "Kemano Completion Project Information".

2003.4.3.104	"A Report on Alcan's Kemano Completion Project: A Comprehensive Study by Michelle Hicks", 13 Apr. 1994 [0.5 cm of textual records] File consists of "A Report on Alcan's Kemano Completion Project: A Comprehensive Study by Michelle Hicks".
2003.4.3.105	"Provincial Economic Impact of KCP Construction", June 1994 [0.5 cm of textual records] File consists of a copy of a report entitled "Provincial Economic Impact of KCP Construction" prepared for Alcan.
2003.4.3.106	"BCUC Kemano Deepwater Release Facility Recommendations: Implications for Sockeye Salmon", 1994 [0.5 cm of textual records] File consists of a report entitled "British Columbia Utilities Commission Kemano Deepwater Release Facility Recommendations: Implications for Sockeye Salmon". Authorship unknown. Annotated.
2003.4.3.107	Alcan's response to the BC Liberal Party Background Paper on Kemano Completion, 18 Oct. 1994 [0.3 cm of textual records] File consists of a faxed copy of a part of an Alcan Bulletin responding to the BC Liberal Party Caucus Background Paper on Kemano Completion.
2003.4.3.108	"Kemano: It's more than just 'jobs vs. fish'", 31 Oct. 1994 [0.3 cm of textual records] File consists of an issue of British Columbia Report (vol. 6, no. 9) featuring the cover story "Kemano: It's more than just 'jobs vs. fish'".
2003.4.3.109	"Kemano Completion Project Review: Report and Recommendations to the Lieutenant Governor in Council", Dec. 1994 [3 cm of textual records] File consists of Dr. Hartman's annotated copy of the British Columbia Utilities Commission's "Kemano Completion Project Review: Report and Recommendations to the Lieutenant Governor in Council". Also includes accompanying correspondence.
2003.4.3.110	Rivers Defense Coalition Newsletter, 1994-1995 [0.3 cm of textual records] File consists of issues of the Rivers Defense Coalition newsletter. Includes Vol. 1, Nos.2-4 and Vol. 2, No. 1. Rivers Defense Coalition consists of the following: Allied Rivers Commission; B.C. Federation of Naturalists; B.C. Wildlife Federation; Fort Fraser Trappers Association; Gulf Trollers Association; Nechako Environmental Coalition; Nechako Neyenkut Society; Pacific Trollers Association; Pulp, Paper & Woodworkers Association Local #9; Recreational Canoeing Association of B.C.; Save the Bulkley Society; Steelhead Society; and the United Fishermen & Allied Workers Union.
2003.4.3.111	The Westcoast Fisherman, Feb. 1994 [0.3 cm of textual records] File consists of a February 1994 issue of the Westcoast Fisherman featuring an article by Dirk Beck entitled "The Kemano Question: Did the Government's 1987 Pact with Alcan Betray the Public Trust?".
2003.4.3.112	"Availability of Juvenile Chinook Salmon to Predators Along the Margins of the Nechako and Stuart Rivers, B.C.", June 1994 [0.3 cm of textual records] File consists of Canadian Technical Report of Fisheries and Aquatic Sciences No. 2245 by T.G. Brown et al. entitled "Availability of Juvenile Chinook Salmon to Predators Along the Margins of the Nechako and Stuart Rivers, B.C.".
2003.4.3.113	"The Truth About KCP: Politics, not Science, Drove the NDP to Kill the Megaproject", 6. Feb. 1995 [0.3 cm of textual records] File consists of an issue of British Columbia Report (vol. 6, no. 23) featuring the cover story "The Truth About KCP: Politics, not Science, Drove the NDP to Kill the Megaproject" by Steve Vanagas.
2003.4.3.114	"Statement by Brian Tobin, Minister of Fisheries and Oceans, in Response to the Report of the Fraser River Sockeye Public Review Board", Mar. 1995 [0.3 cm of textual records] File consists of a March 7, 1995 speech entitled "Statement by Brian Tobin, Minister of Fisheries and Oceans, in Response to the Report of the Fraser River Sockeye Public Review Board".

2003.4.3.115	Hartman's notes regarding salmon escapement, 1995 [0.3 cm of textual records] File consists of handwritten and copied notes written by Hartman regarding salmon escapement in the Nechako, Stuart, Stellako, Nadina, and Fraser Rivers, among others. Includes escapement data summaries.
2003.4.3.116	"Application for Export Permit to the National Energy Board re: Intalco Aluminum Corporation", Dec. 1995 [0.3 cm of textual records] File consists of a 1995 "Application for Export Permit to the National Energy Board re: Intalco Aluminum Corporation" from Powerex British Columbia Power Exchange Corporation.
2003.4.3.117	"Restructuring Kemano: Open the Process Up, Mr. Harcourt", 1995-1996 [0.3 cm of textual records] File consists of drafts of Hartman's "Restructuring Kemano: Open the Process Up, Mr. Harcourt" and accompanying correspondence. Includes related newspaper clippings regarding the BC-Alcan Framework Agreement of July 1995.
2003.4.3.118	"Impacts of Growth in Resource Use and Human Population on the Nechako River: A Major Tributary of the Fraser River, British Columbia, Canada", Oct. 1996 [0.3 cm of textual records] File consists of a photocopy of Hartman's article from GeoJournal entitled "Impacts of Growth in Resource Use and Human Population on the Nechako River: A Major Tributary of the Fraser River, British Columbia, Canada".
2003.4.3.119	"BC/Alcan 1997 Agreement", 5 Aug. 1997 [0.5 cm of textual records] File consists of a copy of the "BC/Alcan 1997 Agreement", a legal document between the Province of British Columbia and Alcan Aluminum Limited regarding the Kemano Completion Project.
2003.4.3.120	Correspondence regarding the Fraser Basin Council's effort to set up the Nechako Watershed Council, 1997-1999 [2 cm of textual records] File consists of correspondence regarding the Fraser Basin Council's effort to set up the Nechako Watershed Council. Includes correspondence to and from Gordon Hartman; David Marshall (Fraser Basin Council); David Lane; T. Buck Suzuki Environmental Foundation; B.C. Wildlife Federation; Fraser Basin Council; Rivers Defense Coalition; Iona Campagnolo (Chairperson, Fraser Basin Council); Nechako River Alliance; and Alcan Smelters and Chemicals Ltd. Also includes copies of Ben Meisner's column, newspaper clippings, "Nechako Watershed Council Terms of Reference", a "Proposal to the Nechako Environmental Enhancement Fund from The Nechako River Alliance", and an article by Hartman entitled "Nechako RiverAn Uncertain Future".
2003.4.3.121	Nechako River Alliance, Nechako Environmental Enhancement Fund, and the creation of the Nechako Watershed Council, 1998-1999, 1998-1999 [2 cm of textual records] ***RESTRICTED*** File consists of various documents regarding the Nechako River Alliance, Nechako Environmental Enhancement Fund (NEEF), and the creation of the Nechako Watershed Council between 1998 and 1999. Includes a Nechako River Alliance "Statement of Unity", a "Proposal to the Nechako Environmental Enhancement Fund" from Nechako River Alliance, a Royal Society of Canada "Expert Panels: Manual of Procedural Guidelines", a report prepared for the NEEF Management Committee entitled "NEEF Multi-Interest Involvement Process: Report on Community Festival Displays", correspondence from NEEF, a NEEF "Design Workbook for a Technical/Scientific Review", a Rescan Environmental Services report prepared for NEEF entitled "Nechako River: Summary of Existing Data", and a report prepared for the NEEF Management Committee entitled "Multi-Interest Involvement Process October 1999 Workshop Report".

2003.4.3.122	Nechako River Alliance, Nechako Environmental Enhancement Fund, and the creation of the Nechako Watershed Council, 2000-2001, 2000-2001 [2 cm of textual records]
	File consists of various documents regarding the Nechako River Alliance, Nechako Environmental Enhancement Fund (NEEF), and the creation of the Nechako Watershed Council between 2000 and 2001. Includes issues of "Basin News: The Newsletter of the Fraser Basin Council", NEEF "Summary Results of Studies by Triton Environmental Consultants and Klohn-Crippen Consultants", NEEF meeting agendas and notes, a "Nechako Watershed Council: Second Interim Report to the Nechako Environmental Enhancement Fund Management Committee", Nechako Watershed Council meeting agendas, correspondence regarding the Nechako Watershed Council, a NEED "April 2000 Public Meeting Report", NEEF Newsletters, a copy of the NEEF Management Committee's "Options for Passing Flows Through the Cheslatta Fan", and a letter from Paul Sanborn (Chairperson, Nechako River Alliance) to Premier Gordon Campbell.
	Nechako River Alliance, 1998-2001 [2 cm of textual records] File consists of various documents regarding the Nechako River Alliance, Nechako Environmental Enhancement Fund (NEEF), and the creation of the Nechako Watershed Council between 1998 and 2001. Includes correspondence to and from Paul Sanborn (Chairperson, Nechako River Alliance); Jim Mattison (NEEF); Gordon Hartman; and David Lane (T. Buck Suzuki Foundation), among others. Also includes a "BC Hydro/Alcan Agreement Backgrounder", documents regarding the dredging of Tahtsa Narrows, NEEF newsletters, Hartman's "Comments on Draft Proposal to Nechako Environmental Enhancement Fund", newspaper clippings, a pamphlet for the Nechako Fisheries Conservation Program, and NEEF's "Design Workbook for a Technical/Scientific Review".
2003.4.3.124	Fraser Basin Council State-of-the-Basin Conference, Nov. 1998 [0.3 cm of textual records] File consists of records relating to the Fraser Basin Council's 1998 inaugural State-of-the-Fraser Basin Conference. Includes issues of "Basin News: The Newsletter of the Fraser Basin Council", Hartman's handwritten notes, correspondence from the Fraser Basin Council regarding the conference, and worksheets from conference sessions.
2003.4.3.125	"The Cheslatta Redevelopment Project: Economic Development and the Cultural Landscape of the Cheslatta T'en", 1999 [0.3 cm of textual records] File consists of a photocopy of Soren Larsen's article from Research in Economic Anthropology entitled "The Cheslatta Redevelopment Project: Economic Development and the Cultural Landscape of the Cheslatta T'en".
2003.4.3.126	"Preliminary Assessment of the Murray-Cheslatta System", 12 Oct. 2000 [0.5 cm of textual records] File consists of Ken Rood's report for the Nechako Environmental Enhancement Fund and the Fraser Basin Council entitled "Preliminary Assessment of the Murray-Cheslatta System".
2003.4.3.127	"Options for Passing Flows Through the Cheslatta Fan", Nov. 2000 [1 cm of textual records] File consists of a copy of a Nechako Environmental Enhancement Fund Management Committee report entitled "Options for Passing Flows Through the Cheslatta Fan".
2003.4.3.128	"Nechako Watershed Council: Third Report to the Nechako Environmental Enhancement Fund Management Committee", 15 Nov. 2000 [0.5 cm of textual records] File consists of a November 2000 draft of the "Nechako Watershed Council: Third Report to the Nechako Environmental Enhancement Fund Management Committee".
2003.4.3.129	"Report of the Nechako Environmental Enhancement Fund Management Committee", 7 June 2001 [1 cm of textual records] File consists of an original "Report of the Nechako Environmental Enhancement Fund Management Committee". Also includes a summary of the report entitled "Moving Ahead: Summary Report of the Nechako Environmental Enhancement Fund Management Committee" and a NEEF "Summary of Results of Studies by Triton Environmental Consultants and Klohn-Crippen Consultants".

2003.4.3.130	"Kenney Dam Release Facility: Evaluation of the Effect of Operation of a Proposed Kenney Dam Water Release Facility on Cooling Water Releases and Nechako River Temperatures", Mar. 2000 [0.5 cm of textual records] File consists of a copy of a Klohn-Crippen Consultants report prepared for the Nechako Environmental Enhancement Fund Management Committee entitled "Water Release Facility at Kenney Dam Updated Conceptual Layout and Cost Estimate".
2003.4.3.131	"Water Release Facility at Kenney Dam Updated Conceptual Layout and Cost Estimate", 18 May 2001 [0.5 cm of textual records] File consists of a copy of a Triton Environmental Consultants report prepared for the Nechako Environmental Enhancement Fund entitled "Kenney Dam Release Facility: Evaluation of the Effect of Operation of a Proposed Kenney Dam Water Release Facility on Cooling Water Releases and Nechako River Temperatures".
2003.4.3.132	"Enhancing the Environment of the Nechako Watershed" presentation slides, Oct. 2000 [0.3 cm of textual records] File consists of slide print-outs for a joint presentation by Cheslatta Carrier Nation and Alcan to the federal government in Ottawa entitled "Enhancing the Environment of the Nechako Watershed".
2003.4.3.133	"Standardizing Spawner Escapement Data: A Case Study of the Nechako River Chinook Salmon", Aug. 2001 [0.3 cm of textual records] File consists of a reprint of Hill and Irvine's article from the North American Journal of Fisheries Management entitled "Standardizing Spawner Escapement Data: A Case Study of the Nechako River Chinook Salmon".
	"Backgrounder on Nechako River White Sturgeon", [ca. 2000] [0.3 cm of textual records] File consists of a "Backgrounder on Nechako River White Sturgeon". Authorship unknown.
2003.4.3.135	Press clippings, 1992-1997 [4 cm of textual records] File consists of press clippings from a variety of British Columbia newspapers, magazines, newsletters and bulletins reporting on the Alcan Kemano Completion Project. Includes articles from the Time-Columnist, The Fisherman, the Prince George Citizen, the Comox District Free Press, B.C. Wildlife Federation's Outdoor Edge, the Vancouver Sun (including columns by Stephen Hume), Nanaimo News Bulletin, the Province, Regional News, the Toronto Star, Nanaimo Times, New Westminster Now, the Georgia Straight, and The Watershed, among others.

Dr. Cole Shirvell Series

Creator: Dr. Cole S. Shirvell

Biographical Sketch: Dr. Cole Shirvell (1948-) was born in Edmonton, Alberta. He completed a B.Sc. at the University of Alberta in 1970 and a Ph.D. from the University of Otago in 1980. Shirvell started work with the Department of Fisheries and Oceans as an NSERC Post-Doctoral Fellow in 1980 and became a DFO research scientist in 1983. Throughout his career, Shirvell's research has focused on the effects of streamflow reduction on habitat, particularly in regards to trout and salmon.

Dates of Creation: 1974-2000

Physical Description: 3.6 m of textual records and other material (11 boxes)

Scope and Content: Series consists of Shirvell's records and collected material related to his activities as a research scientist, particularly his involvement in the Kemano Completion Project. Shirvell's records are arranged into six subseries:

- literature review, consisting of published material;
- research and publications, consisting of Shirvell's publications and research material;
- Envirocon and Alcan, consisting of Envirocon and Alcan publications and records;
- Nechako River court action, consisting of records related to the DFO-Alcan court case;
- Nechako Fisheries Conservation Program, consisting of material relating to NFCP; and,
- BCUC Kemano Completion Project Review, consisting of records relating to Shirvell's participation in the public review.

The majority of the material in all subseries consists of copies of publications related to Shirvell's activities and research, many of which were written or annotated by him, such as reprints of journal articles, draft scientific reports, government publications, and newspaper clippings. Shirvell's research records comprise raw data, field notes, memoranda, and draft reports, many of which relate to his 1986 Nechako River salmon overwintering studies. Records regarding the Nechako River court action range from 1980 to 1987, and include correspondence, internal DFO memoranda, legal documents, and related scientific reports. Also includes significant material emanating from the British Columbia Utilities Commission Kemano Completion Project Public Review, such as correspondence, BCUC newsletters and news releases, exhibits and evidence submitted to the review panel, documents produced for the hearings, and the final report.

Arrangement: Arranged by the archivist into subseries based on Shirvell's activities and record types. Records in each subseries are arranged chronologically.

2003.4.4.1

Literature Review Subseries 1986-1997 0.6 m of textual records (2 boxes)

Subseries predominately consists of photocopies and reprints of journal articles related to Shirvell's areas of research. Also includes original copies of government publications, drafts and final copies of scientific reports, newsletters, and newspaper clippings.

2003.4.4.1 - Literature Review File List (Boxes 9-10)

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2003.4.4.1.01	"Characteristics of Spawning Nests of Columbia River Salmon", 1986 [0.1 cm of textual records] File consists of a photocopy of Clifford Burner's Fishery Bulletin entitled "Characteristics of Spawning Nests of Columbia River Salmon".
2003.4.4.1.02	"The Restricted Movement of Fish Populations", [between 1985 and 1995] [0.3 cm of textual records] File consists of a photocopy of Shelby Gerking's article, "The Restricted Movement of Fish Populations".
2003.4.4.1.03	"Habitat Selection and Spatial Interaction by Juvenile Chinook Salmon and Steelhead Trout in Two Idaho Streams", [between 1985 and 1995] [0.1 cm of textual records] File consists of a photocopy of Everest and Chapman's article, "Habitat Selection and Spatial Interaction by Juvenile Chinook Salmon and Steelhead Trout in Two Idaho Streams".
2003.4.4.1.04	"Salmonid Enhancement Baseline Investigations at Stuart River, British Columbia: Part I - 1980 Juvenile Chinook Salmon Study (Volume I)", Feb. 1981 [1 cm of textual records] File consists of a photocopy of a report prepared for DFO by Lister et al. entitled "Salmonid Enhancement Baseline Investigations at Stuart River, British Columbia: Part I - 1980 Juvenile Chinook Salmon Study (Volume I)".
2003.4.4.1.05	"Biological Engineering Studies Conducted on the Nechako River During 1980, 1981 and 1982", Mar. 1983 [6 cm of textual records] File consists of a copy of DFO's report on "Biological Engineering Studies Conducted on the Nechako River During 1980, 1981 and 1982". Includes accompanying memoranda regarding the studies and editorial comments.
2003.4.4.1.06	"Autumnal Habitat Shift of Juvenile Atlantic Salmon (Salmo salar) in a Small River", June 1983 [0.1 cm of textual records] File consists of a photocopy of Rimmer et al.'s article, "Autumnal Habitat Shift of Juvenile Atlantic Salmon (Salmo salar) in a Small River".
2003.4.4.1.07	"Habitat Capability of the Nechako River for Rainbow Trout and Char and the Effects of Various Flow Regimes", 1984 [0.5 cm of textual records] File consists of a copy of BC Fish and Wildlife Branch Fisheries Technical Circular No. 63 by Slaney et al. entitled "Habitat Capability of the Nechako River for Rainbow Trout and Char and the Effects of Various Flow Regimes".
2003.4.4.1.08	"PHABSIM Error Analyses: Techniques and Case Studies", 1984 [2 cm of textual records] File consists of Roland Sanford's 1984 University of Washington MSc thesis entitled "PHABSIM Error Analyses: Techniques and Case Studies". Includes accompanying correspondence from Sanford to Shirvell regarding the thesis.

2003.4.4.1.09	"Interaction Between Riparian Vegetation, Water Temperature, and Salmonid Habitat in the Tucannon River", Feb. 1985 [0.1 cm of textual records] File consists of a photocopy of Theurer et al.'s article, "Interaction Between Riparian Vegetation, Water Temperature, and Salmonid Habitat in the Tucannon River", from Water Resources Bulletin (Vol. 21, No. 1).
2003.4.4.1.10	"Assessment of the Influence of Gas Supersaturation on Salmonids in the Nechako River in Relation to Kemano Completion", June 1985 [0.3 cm of textual records] File consists of a published copy of Alderdice and Jensen's Canadian Technical Report of Fisheries and Aquatic Sciences report entitled "Assessment of the Influence of Gas Supersaturation on Salmonids in the Nechako River in Relation to Kemano Completion".
2003.4.4.1.11	"Effects of Temperature and Season on the Position Holding Performance of Juvenile Atlantic Salmon (Salmo salar)", 1985 [0.1 cm of textual records] File consists of a photocopy of Rimmer et al.'s article, "Effects of Temperature and Season on the Position Holding Performance of Juvenile Atlantic Salmon (Salmo salar)", from the Canadian Journal of Zoology (Vol. 63).
2003.4.4.1.12	"A Critique of the Instream Flow Incremental Methodology", 1985 [0.1 cm of textual records] File consists of a photocopy of an article from the Canadian Journal of Fisheries and Aquatic Sciences (Vol. 42) by Mathur et al. entitled "A Critique of the Instream Flow Incremental Methodology".
2003.4.4.1.13	"Predictability of the Consequences of the Kemano Hydroelectric Proposal for Natural Salmon Populations", 1985 [0.3 cm of textual records] File consists of a photocopy of Mundie and Bell-Irving's draft of "Predictability of the Consequences of the Kemano Hydroelectric Proposal for Natural Salmon Populations". Includes accompanying memoranda regarding the paper.
2003.4.4.1.14	"Consumptive and Non-Consumptive Uses of Vegetation in the Pacific Northwest Aquatic Ecosystems", 1986 [0.3 cm of textual records] File consists of a photocopy of Leving's paper, "Consumptive and Non-Consumptive Uses of Vegetation in the Pacific Northwest Aquatic Ecosystems", from the proceedings of "Wetland Functions, Rehabilitation, and Creation in the Pacific Northwest: The State of our Understanding".
2003.4.4.1.15	"Winter Habitat Preference of Juvenile Salmonids in Two Interior Rivers in British Columbia", 1986 [0.1 cm of textual records] File consists of a photocopy of a Canadian Journal of Zoology by Swales et al. entitled "Winter Habitat Preference of Juvenile Salmonids in Two Interior Rivers in British Columbia".
2003.4.4.1.16	"Nechako River Salmonids Gas Bubble Trauma Field Study, 1985", May 1986 [1 cm of textual records] File consists of a draft copy of Rowland's DFO "Nechako River Salmonids Gas Bubble Trauma Field Study, 1985".
2003.4.4.1.17	"Case Histories of Regulated Stream Flow and its Effects on Salmonid Populations", July 1986 [1 cm of textual records] File consists of a published copy of Burt and Mundie's Canadian Technical Report of Fisheries and Aquatic Sciences report entitled "Case Histories of Regulated Stream Flow and its Effects on Salmonid Populations". Includes accompanying correspondence related to the publication.
2003.4.4.1.18	"Diver Observations of Juvenile Chinook Salmon Overwintering in the Nicola River, British Columbia", Aug. 1986 [0.5 cm of textual records] File consists of a report entitled "Diver Observations of Juvenile Chinook Salmon Overwintering in the Nicola River, British Columbia" prepared for DFO by B. Emmett and H.I. McElderry of Archipelago Marine Research.

	"Proceedings of the Workshop on Habitat Improvements, Whistler, B.C., 8-10 May 1984", Dec. 1986 [1.5 cm of textual records] File consists of a photocopy of the "Proceedings of the Workshop on Habitat Improvements, Whistler, B.C., 8-10 May 1984", a Canadian Technical Report of Fisheries and Aquatic Sciences publication by John Patterson.
2003.4.4.1.20	"Juvenile Salmon Utilization of Rejuvenated Tidal Channels in the Squamish Estuary, British Columbia", Jan. 1987 [0.3 cm of textual records] File consists of a photocopy of "Juvenile Salmon Utilization of Rejuvenated Tidal Channels in the Squamish Estuary, British Columbia", a Canadian Technical Report of Fisheries and Aquatic Sciences report by Ryall and Levings.
2003.4.4.1.21	"A Study of Some Aspects of the Geomorphology of the Nechako River", 1986-1987 [2 cm of textual records] File consists of two drafts of the report by K.M. Rood of Reid Crowther & Partners Ltd. entitled "A Study of Some Aspects of the Geomorphology of the Nechako River". Includes a draft from December 1, 1986 annotated by Shirvell and a draft from January 5, 1987 with accompanying correspondence.
2003.4.4.1.22	"A Study of Some Aspects of the Geomorphology of the Nechako River", 30 Jan. 1987 [2 cm of textual records] File consists of a January 30, 1987 final draft of the report by K.M. Rood of Reid Crowther & Partners Ltd. entitled "A Study of Some Aspects of the Geomorphology of the Nechako River".
2003.4.4.1.23	"Report on Surveys of the Nechako River", 13 Feb. 1987 [2 cm of textual records] File consists of a report by K.M. Rood of Reid Crowther & Partners Ltd. entitled "Report on Surveys of the Nechako River".
2003.4.4.1.24	"Study of Juvenile Chinook Salmon in the Nechako River, British Columbia, 1985 and 1986", Nov. 1987 [1 cm of textual records] File consists of a published copy of the Nechako River Project's Canadian Technical Report of Fisheries and Aquatic Sciences report entitled "Study of Juvenile Chinook Salmon in the Nechako River, British Columbia, 1985 and 1986".
2003.4.4.1.25	"A Test of the Instream Flow Incremental Methodology for Underyearling Rainbow Trout, Salmo gairdnerii, in Experimental New Zealand Streams", 1987 [0.1 cm of textual records] File consists of a photocopy of a New Zealand Journal of Marine and Freshwater Research article by Irvine et al. entitled "A Test of the Instream Flow Incremental Methodology for Underyearling Rainbow Trout, Salmo gairdnerii, in Experimental New Zealand Streams".
2003.4.4.1.26	"Summer and Winter Habitat Selection by Juvenile Chinook Salmon in a Highly Sedimented Idaho Stream", 1987 [0.1 cm of textual records] File consists of a photocopy of a Transactions of the American Fisheries Society article by Hillman et al. entitled "Summer and Winter Habitat Selection by Juvenile Chinook Salmon in a Highly Sedimented Idaho Stream".
2003.4.4.1.27	"Habitat Modelling in the Nechako River: Volume 1", 1 Apr. 1987 [2 cm of textual records] File consists of a draft copy of Woodward-Clyde Consultants' report entitled "Habitat Modelling in the Nechako River: Volume 1".
2003.4.4.1.28	"Habitat Modelling in the Nechako River: Volume 2", 1 Apr. 1987 [3 cm of textual records] File consists of a draft copy of Woodward-Clyde Consultants' report entitled "Habitat Modelling in the Nechako River: Volume 2".
2003.4.4.1.29	"Task 4 Technical Memorandum: Sensitivity of Weighted Usable Area Predictions to Variance in the Input Criteria", 30 Mar. 1988 [6 cm of textual records] File consists of a draft copy of Woodward-Clyde Consultants' report entitled "Task 4 Technical Memorandum: Sensitivity of Weighted Usable Area Predictions to Variance in the Input Criteria".

2003.4.4.1.30	Data tables from "Task 4 Technical Memorandum: Sensitivity of Weighted Usable Area Predictions to Variance in the Input Criteria", 14 Apr. 1988 [3 cm of textual records] File consists of the remaining data tables that were not included in the draft of Woodward-Clyde Consultants' report entitled "Task 4 Technical Memorandum: Sensitivity of Weighted Usable Area Predictions to Variance in the Input Criteria".
2003.4.4.1.31	"Coldwater River Juvenile Salmonid Monitoring Study - Year 2 (1987-88)", June 1988 [2 cm of textual records] File consists of a photocopy of a report prepared for the Ministry of Transportation and Highways by Beniston et al. entitled "Coldwater River Juvenile Salmonid Monitoring Study - Year 2 (1987-88)".
2003.4.4.1.32	"Bioconcentration of Chlorophenols by Juvenile Chinook Salmon (Oncorhynchus tshawytscha) Overwintering in the Upper Fraser River: Field and Laboratory Tests", 1988 [0.1 cm of textual records] File consists of a photocopy of a Water Pollution Research Journal of Canada article by Rogers et al. entitled "Bioconcentration of Chlorophenols by Juvenile Chinook Salmon (Oncorhynchus tshawytscha) Overwintering in the Upper Fraser River: Field and Laboratory Tests".
2003.4.4.1.33	"Behaviour and Microhabitat of Young Atlantic Salmon (Salmo salar) During Winter", 1988 [0.1 cm of textual records] File consists of a photocopy of a Canadian Journal of Fisheries and Aquatic Sciences (Vol. 45) article by Fausch entitled "Tests of Competition between Native and Introduced Salmonids in Streams: What Have We Learned?".
2003.4.4.1.34	"Tests of Competition between Native and Introduced Salmonids in Streams: What Have We Learned?", 1988 [0.1 cm of textual records] File consists of a photocopy of a Canadian Journal of Fisheries and Aquatic Sciences (Vol. 45) article by Cunjak entitled "Behaviour and Microhabitat of Young Atlantic Salmon (Salmo salar) During Winter".
2003.4.4.1.35	"Woody Debris and Its Contribution to Pool Formation in a Coastal Stream 50 Years after Logging", 1988 [0.1 cm of textual records] File consists of a photocopy of a Canadian Journal of Fisheries and Aquatic Sciences (Vol. 45) article by Andrus et al. entitled "Woody Debris and Its Contribution to Pool Formation in a Coastal Stream 50 Years after Logging".
	"Flushing Flow Recommendations for Maintenance of Salmonid Spawning Gravels in a Steep, Regulated Stream", 1989 [0.1 cm of textual records] File consists of a photocopy of a Regulated Rivers: Research & Management (vol. 3) article by Reiser et al. entitled "Flushing Flow Recommendations for Maintenance of Salmonid Spawning Gravels in a Steep, Regulated Stream".
2003.4.4.1.37	"Snake River Spring and Summer Chinook Salmon: Can They Be Saved?", 1989 [0.1 cm of textual records] File consists of a photocopy of a Regulated Rivers: Research & Management (vol. 4) article by John Williams entitled "Snake River Spring and Summer Chinook Salmon: Can They Be Saved?".
2003.4.4.1.38	"Observations on Overwintering Juvenile Chinook Salmon (Oncorhynchus tshawytscha) Exposed to Bleached Kraft Mill Effluent in the Upper Fraser River, British Columbia", 1989 [0.1 cm of textual records] File consists of a photocopy of a Chemosphere (vol. 19, no. 12) article by Rogers et al. entitled "Observations on Overwintering Juvenile Chinook Salmon (Oncorhynchus tshawytscha) Exposed to Bleached Kraft Mill Effluent in the Upper Fraser River, British Columbia".

2003.4.4.1.39	"Migration Patterns of Wild and Hatchery-Reared Juvenile Chinook Salmon (Oncorhynchus
	tshawytscha) in the Nicola River, British Columbia", May 1989 [0.3 cm of textual records] File consists of a photocopy of Levings and Lauzier's paper, "Migration Patterns of Wild and
	Hatchery-Reared Juvenile Chinook Salmon (Oncorhynchus tshawytscha) in the Nicola River, British
	Columbia", from the "Proceeding of the 1988 Northeast Pacific Chinook and Coho Salmon Workshop".
2002 4 4 1 40	"Preliminary Inventory of Habitat Cover/Cover Opportunities, Nechako River, 1989", Dec. 1989 [2
2003.4.4.1.40	cm of textual records]
	File consists of a draft copy of Beniston and Lister's report for the Nechako Fisheries Conservation
	Program entitled "Preliminary Inventory of Habitat Cover/Cover Opportunities, Nechako River, 1989".
2003.4.4.1.41	"Comparison of Discharge Methods and Habitat Optimization for Recommending Instream Flows
	to Protect Fish Habitat", 1990 [0.1 cm of textual records]
	File consists of a photocopy of a Regulated Rivers: Research & Management (vol. 5) article by Orth and Leonard entitled "Comparison of Discharge Methods and Habitat Optimization for
	Recommending Instream Flows to Protect Fish Habitat".
2003.4.4.1.42	"Data Assessment and Definition of a Chinook Production Model for the Nechako River", May 1990 [0.5 cm of textual records]
	File consists of a photocopy of a report prepared by consultants Karl English and T. Webb entitled
	"Data Assessment and Definition of a Chinook Production Model for the Nechako River".
2003.4.4.1.43	"Fish Habitat Enhancement: A Manual for Freshwater, Estuarine, and Marine Habitats", Nov. 1990 [0.5 cm of textual records]
	File consists of a photocopy of a manual prepared by Envirowest Environmental Consultants for DFO
	entitled "Fish Habitat Enhancement: A Manual for Freshwater, Estuarine, and Marine Habitats".
2003.4.4.1.44	"Extensive Use of the Fraser River Basin as Winter Habitat by Juvenile Chinook Salmon", 17 Nov. 1990 [0.5 cm of textual records]
	File consists of a photocopy of the final draft of Levings and Lauzier's paper, "Extensive Use of the
	Fraser River Basin as Winter Habitat by Juvenile Chinook Salmon". Includes accompanying
	correspondence to Shirvell from Levings regarding the paper.
2003.4.4.1.45	"Variability of Results from the Use of PHABSIM in Estimating Habitat Area", 1990 [0.1 cm of textual records]
	File consists of a photocopy of a Regulated Rivers: Research & Management (vol. 5) article by Gan
	and McMahon entitled "Variability of Results from the Use of PHABSIM in Estimating Habitat Area".
2003.4.4.1.46	"Debris Structure Placements and Whole-River Fertilization for Salmonids in a Large Regulated
	Stream in British Columbia", 1991 [1 cm of textual records] File consists of a draft copy of an article for the Bulletin of Marine Science by Slaney et al. entitled
	"Debris Structure Placements and Whole-River Fertilization for Salmonids in a Large Regulated
	Stream in British Columbia".
2003.4.4.1.47	"Analysis of the Diet of Fish from the Nechako River, B.C., 1986-1990", Mar. 1991 [3 cm of textual records]
	File consists of a report by Nell Stallard for DFO entitled "Analysis of the Diet of Fish from the
	Nechako River, B.C., 1986-1990".
2003.4.4.1.48	"Minutes of Proceedings and Evidence of the Standing Committee on Forestry and Fisheries", June 1991 [0.1 cm of textual records]
	File consists of a photocopy of the "Minutes of Proceedings and Evidence of the Standing
	Committee on Forestry and Fisheries" regarding the budget and program of the Department of
	Fisheries and Oceans.

2003.4.4.1.49	"A Prototype Submersible Electrofisher: Design and User Manual", 1992 [0.5 cm of textual records]
	File consists of a published copy of a Canadian Manuscript Report of Fisheries and Aquatic Sciences
	report by Emmett et al. entitled "A Prototype Submersible Electrofisher: Design and User Manual".
2002 4 4 1 50	"Incidence and Causes of Physical Failure of Artificial Habitat Structures in Streams of Western
2003.4.4.1.50	Oregon and Washington", 1992 [0.1 cm of textual records]
	File consists of a photocopy of a North American Journal of Fisheries Management (Vol. 12) article
	by Frissell and Nawa entitled "Incidence and Causes of Physical Failure of Artificial Habitat
	Structures in Streams of Western Oregon and Washington".
2003.4.4.1.51	"Techno-Arrogance and Halfway Technologies: Salmon Hatcheries on the Pacific Coast of North America", 1992 [0.1 cm of textual records]
	File consists of a photocopy of a Conservation Biology (Vol. 6, No. 3) article by Gary Meffe entitled
	"Techno-Arrogance and Halfway Technologies: Salmon Hatcheries on the Pacific Coast of North
	America".
2003.4.4.1.52	"Institutional Learning and Spawning Channels for Sockeye Salmon (Oncorhynchus nerka)", 1992
	[0.1 cm of textual records]
	File consists of a photocopy of a Canadian Journal of Fisheries and Aquatic Sciences (vol. 49) article
	by Ray Hilborn entitled "Institutional Learning and Spawning Channels for Sockeye Salmon
	(Oncorhynchus nerka)".
2003.4.4.1.53	"An Acceptable Level of Certainty: Taking Down the Nechako", 1992 [0.1 cm of textual records]
	File consists of a photocopy of a chapter entitled "An Acceptable Level of Certainty: Taking Down
	the Nechako" from Mark Hume's book, "Run of the River".
2003.4.4.1.54	"Development of Off-Channel Habitats for Use by Juvenile Chinook Salmon", 1992 [0.1 cm of
	textual records]
	File consists of a photocopy of a North American Journal of Fisheries Management (Vol. 12) article
	by Richards et al. entitled "Development of Off-Channel Habitats for Use by Juvenile Chinook
	Salmon".
2003.4.4.1.55	"River Bed Construction: Impact and Habitat Restoration for Juvenile Atlantic Salmon, Salmo salar
	L., and Brown Trout, Salmo trutta L.", 1992 [0.1 cm of textual records]
	File consists of a photocopy of an Aquaculture and Fisheries Management article by Hvidsten and
	Johnsen entitled "River Bed Construction: Impact and Habitat Restoration for Juvenile Atlantic
	Salmon, Salmo salar L., and Brown Trout, Salmo trutta L.".
2003.4.4.1.56	"Area-Under-The Curve Salmon Escapement Estimation Manual", 1993 [0.5 cm of textual records]
	File consists of a published copy of a Canadian Technical Report of Fisheries and Aquatic Sciences
	report by Irvine et al. entitled "Area-Under-The Curve Salmon Escapement Estimation Manual".
	Includes a 3.5" floppy disk containing the Area-Under-The Curve software program.
2003.4.4.1.57	"Estimating Salmon Spawning Escapement Using Capture-Recapture Methods", 1993 [0.3 cm of
	textual records]
	File consists of a National Research Canada reprint of a Canadian Journal of Fisheries and Aquatic
	Sciences (vol. 50, no. 6) article by Schwarz et al. entitled "Estimating Salmon Spawning Escapement
	Using Capture-Recapture Methods".
2003.4.4.1.58	"Learning to Enhance Salmon Production: Lessons from the Salmonid Enhancement Program", 1993 [0.3 cm of textual records]
	File consists of a photocopy of a Canadian Journal of Fisheries and Aquatic Sciences (vol. 50) article
	by Ray Hilborn and John Winton entitled "Learning to Enhance Salmon Production: Lessons from the
	Salmonid Enhancement Program".
	Samona Emancement rogram .

2003.4.4.1.59	"Field Review of Fish Habitat Improvement Projects in Central Idaho", May 1993 [0.5 cm of textual records]
	File consists of a photocopy of a report by Beschta et al. for the U.S. Department of Energy entitled "Field Review of Fish Habitat Improvement Projects in Central Idaho".
2003.4.4.1.60	"Effect of Habitat Improvement on Atlantic Salmon in the Regulated River Suldalslagen", 1993 [0.3 cm of textual records] File consists of a photocopy of a Regulated Rivers: Research & Management (vol. 8) article by Raastad et al. entitled "Effect of Habitat Improvement on Atlantic Salmon in the Regulated River Suldalslagen".
2003.4.4.1.61	"Coho Salmon Smolt Production from Kelvin Creek (Cowichan River Watershed) B.C., During Four Years of Colonization with Hatchery and Salvaged Wild Fry", 1993 [0.3 cm of textual records] File consists of a published copy of a Canadian Technical Report of Fisheries and Aquatic Sciences report by R.A. Bams entitled "Coho Salmon Smolt Production from Kelvin Creek (Cowichan River Watershed) B.C., During Four Years of Colonization with Hatchery and Salvaged Wild Fry"
2003.4.4.1.62	"Survey of Piscivorous Birds of the Nechako and Stuart Rivers, B.C.", Dec. 1993 [0.5 cm of textual records] File consists of a photocopy of a draft of a Canadian Manuscript Report of Fisheries and Aquatic Sciences by Brown et al. entitled "Survey of Piscivorous Birds of the Nechako and Stuart Rivers, B.C.".
2003.4.4.1.63	"Distribution and Stomach Contents of Potential Fish Predators of Juvenile Chinook Salmon (Oncorhynchus tshawytscha) in the Nechako and Stuart Rivers, B.C.", Mar. 1994 [0.5 cm of textual records] File consists of a photocopy of a draft of a Canadian Manuscript Report of Fisheries and Aquatic Sciences by Brown and Levings entitled "Distribution and Stomach Contents of Potential Fish Predators of Juvenile Chinook Salmon (Oncorhynchus tshawytscha) in the Nechako and Stuart Rivers, B.C.".
2003.4.4.1.64	"Availability of Juvenile Chinook Salmon to Predators Along the Margins of the Nechako and Stuart Rivers, B.C.", June 1994 [0.5 cm of textual records] File consists of a published copy of a Canadian Manuscript Report of Fisheries and Aquatic Sciences report by Brown et al. entitled "Availability of Juvenile Chinook Salmon to Predators Along the Margins of the Nechako and Stuart Rivers, B.C.".
	"Review of Water Management in the Nechako River Basin: An Interim Report Prepared for the Minister of Environment, Lands and Parks", 31 Dec. 1996 [0.5 cm of textual records] File consists of a photocopy of an interim report by Brian Scarfe entitled "Review of Water Management in the Nechako River Basin: An Interim Report Prepared for the Minister of Environment, Lands and Parks".
2003.4.4.1.66	"Politics, Ethics, and Ecology: Confronting the Tragedy of the Commons", 1997 [0.5 cm of textual records] File consists of a photocopy of a chapter by Rubinoff entitled "Politics, Ethics, and Ecology: Confronting the Tragedy of the Commons" from the book "Canadian Issues in Environmental Ethics".
2003.4.4.1.67	Press clippings, 1980-1984, 1980-1984 [0.5 cm of textual records] File consists of newspaper clippings and photocopies of articles from various British Columbia newspapers, newsletters and magazines. Includes an original "Salmonid Enhancement Newsletter" (vol. 5 no. 3, 1980); a copy of the Telka Foundation Newsletter (vol. 6 no. 1, 1983); clippings from the Prince Rupert Daily News, among others; and handwritten notes.

2003.4.4.1.68	Press clippings, 1987, 1987 [1 cm of textual records] File consists of photocopies of newspaper clippings, news releases, and articles from various British Columbia newspapers, newsletters and magazines from 1987. Includes articles regarding the 1987 Settlement Agreement between Alcan and the government.
2003.4.4.1.69	Press clippings, 1988-1989, 1988-1989 [0.3 cm of textual records] File consists of photocopies of newspaper clippings and articles from various British Columbia newspapers, newsletters and magazines from 1988 and 1989. Includes articles regarding effects of the 1987 Settlement Agreement between Alcan and the government.
	Press clippings, 1990-1992, 1990-1992 [0.5 cm of textual records] File consists of photocopies of newspaper clippings and articles from various British Columbia newspapers, newsletters and magazines from 1990 to 1992. Includes clippings of a magazine advertisement for Alcan and copies of articles from the Vancouver Sun, among other newspapers, regarding the Alcan Nechako controversy.
	Press clippings, 1993-1994, 1993-1994 [2 cm of textual records] File consists of newspaper clippings and photocopies of articles from various British Columbia newspapers, newsletters and magazines. Includes a clipping with a picture of Cole Shirvell alongside an article entitled "Government Muzzled Fisheries Research Scientists"; an issue of CompMech News (vol. 1, no. 6); clippings from the Vancouver Sun, Prince George Citizen, and Times Colonist, among other newspapers; a copy of a British Columbia Report article on Kemano; an issue of the Rivers Defense Coalition newsletter (vol. 1 no. 4, Aug. 1994); informational pamphlets from Cheslatta Band regarding Kemano; a full issue of The Georgia Straight (vol. 27 no. 1335, July 23-30, 1993); and a page from a May 1994 Gabriola Sounder.
	The Watershed, 1993-1994 [1 cm of textual records] File consists of issues of The Watershed, a newspaper published by the Carrier Sekani Tribal Council. Includes issues from volume 1, nos. 1-3 from October 1993, November 1993, and June 1994.

Research and Publications Subseries 1974-1997 0.6 m of textual records (2 boxes) – 93 photographs

Subseries consists predominantly of publications and draft publications written by Cole Shirvell. Also includes maps, photographs, raw data, field notes, and correspondence and reports regarding field work.

2003.4.4.2 - File List (Boxes 11-12)

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2003.4.4.2.01	Nechako watershed maps, [between 1975 and 1995] [1 cm of textual records] File consists of various maps depicting areas in the Nechako watershed. Includes maps created by the Department of Energy, Mines and Resources, Survey and Mapping Branch of Nulki Lake, Fraser Lake, Vanderhoof, Big Bend Creek, and Hallett Lake. Also includes a BC Ministry of Environment Surveys and Resource Mapping Branch map of Tachick Lake.
2003.4.4.2.02	Raw data gathered by Cole Shirvell at University of Otago, 1974-1975 [0.5 cm of textual records] File consists of a notebook containing raw data regarding water chemistry, physical parameters of streams, and electrofishing results gathered by Cole Shirvell while he was at the University of Otago.
2003.4.4.2.03	Nechako River transect data formatted for use in the MOD-WSP program, Nov. 1982 [0.3 cm of textual records] File consists of copies of raw Nechako River transect data formatted for use in the MOD-WSP program. Includes measurements of depth, substrate, cover, and velocity.
2003.4.4.2.04	"Assessment of the Instream Flow Incremental Methodology for Atlantic Salmon in Nova Scotia", 1983 [0.5 cm of textual records] File consists of a copy of the paper by Shirvell and Morantz entitled "Assessment of the Instream Flow Incremental Methodology for Atlantic Salmon in Nova Scotia". Also includes a review of the paper by Robert T. Milhous, annotated with the thoughts of Cole Shirvell.
2003.4.4.2.05	"Review of Incremental-Type Methodology for Assessing Reduced Streamflows and Its Application to Alcan's Proposed Kemano Completion Hydroelectric Development", Aug. 1983 [1 cm of textual records] File consists of an annotated draft copy of Shirvell's "Review of Incremental-Type Methodology for Assessing Reduced Streamflows and Its Application to Alcan's Proposed Kemano Completion Hydroelectric Development".
2003.4.4.2.06	Editorial comments on "Review of Incremental-Type Methodology for Assessing Reduced Streamflows and Its Application to Alcan's Proposed Kemano Completion Hydroelectric Development", Feb. 1984 [1 cm of textual records] File consists of documents relating to the editorial review of Shirvell's report, "Review of Incremental-Type Methodology for Assessing Reduced Streamflows and Its Application to Alcan's Proposed Kemano Completion Hydroelectric Development". Includes correspondence from Envirocon, comments on Shirvell's report from Robert Milhous and other colleagues, and a draft of the paper with commentary from Envirocon.
2003.4.4.2.07	"Review of Incremental-Type Methodology for Assessing the Effects of Reduced Streamflows on Fish Populations", Dec. 1984 [0.5 cm of textual records] File consists of a draft of a Canadian Technical Report of Fisheries and Aquatic Sciences by Shirvell entitled "Review of Incremental-Type Methodology for Assessing the Effects of Reduced Streamflows on Fish Populations". This report was later renamed as "Pitfalls of physical habitat simulation in the instream flow incremental methodology" and finally published in June 1986.

2003.4.4.2.08 Results of Reconnaissance Sampling for Juvenile Salmonids in the Upper Fraser River and Selected Tributaries, August and October, 1984", Oct. 1985 [0.5 cm of textual records] ***RESTRICTED*** File consists of a photocopy of a Canadian Technical Report of Fisheries and Aquatic Sciences by Levings et al. entitled "Results of Reconnaissance Sampling for Juvenile Salmonids in the Upper Fraser River and Selected Tributaries, August and October, 1984". 2003.4.4.2.09 Workshop on instream flow methods, 10 Dec. 1985 [2 cm of textual records] File consists of section three of a manual produced as a result of a workshop on instream flow methods. Includes accompanying memoranda describing the workshop and the resulting manual. 2003.4.4.2.10 Drafts and background material for Shirvell's expert report for the Nechako court action, 1985-1987 [4 cm of textual records] File consists of drafts and background material for Shirvell's expert report for the Nechako court action. Includes a photocopy of an article by Neilson and Banford entitled "Chinook Salmon (Oncorhynchus tshawytscha) Spawner Characteristics in Relation to Redd Physical Features"; "In Defense of the Instream Flow Incremental Methodology" by Orth and Maughan; handwritten drafts of Shirvell's expert report; handwritten notes about the subject matter in the report; hand drawn graphs; a "Synopsis of key IFIM related testimony and evidence before the Federal Energy Regulatory Commission (FERC) in the Philadelphia Electric Power Company (Conowinga Dam) Case"; Expert Report for the Nechako River Court Action - J.H. Mundie"; drafts of Shirvell's "Review of" Incremental-Type Methodology for Assessing Reduced Streamflows and its Application to Alcan's Proposed Kemano Completion Hydroelectric Development"; and a "Technical Statement for Nechako River Court Action - DFO vs. ALCAN: Habitat Modelling" by Cole Shirvell. Also includes memoranda entitled: "Nechako River Court Action: FRB Involvement" (Apr. 7, 1986), "Nechako Court Action - IFIM in Canada" (Jan. 20, 1987), "Nechako Court Action" (Sept. 22, 86), "Relevance of the 'Shirvell' Studies" (Oct. 3, 1986), "Conference with Cole Shirvell - Oct. 10, 1986 - Vancouver" (Oct. 14, 1986), "Comments on Draft DFO Position on Nechako River Fish Flow Requirements" (Mar. 17, 1986), "Expert Report for Nechako River Court Action" (Apr. 18, 1986), and "Nechako River Documents in My Control" (Jan. 24, 1986) from Shirvell to Ennis. 2003.4.4.2.11 Photographs for Shirvell's expert report, 1986 [93 photographs (67 prints : col. ; 15 x 10 cm -- 26 negatives : col. ; 35 mm)] File consists of photographs of 1986 Nechako River study sites and methods used in the studies. Includes underwater photography of juvenile salmonids. These photographs accompanied Shirvell's expert report for the Nechako court action. 2003.4.4.2.12 Figures, graphs and maps from Nechako River studies, [ca. 1986] [1 cm of textual records] File consists of various maps, figures, and graphs generated in conjunction with Nechako River scientific studies. Includes a map of dune areas at a site in the Nechako River entitled "Comparison of areas predicted by ALCAN's habitat model to be used by chinook salmon for spawning in Reach 2-1 with areas that they have historically used", a graph of "Habitat Predictions for Pre-Migrant Juvenile Chinook Salmon in the Nechako River", an annotated graph of "Upper, Lower and Optimum Temperature for Nechako River Chinook Salmon", a hand drawn graph of "Water temperatures at the margins of the Nechako River during the warmest part of the year at three locations downstream from Cheslatta Falls", a hand drawn graph of "Lethal water temperature distribution in a river", a "Nechako River Salmon Study Area Base Map", maps of Nechako River temperature/TGP transects, and a hand drawn graph of maximum usable area for pre-migrant juvenile chinook salmon in the Nechako River. 2003.4.4.2.13 Nechako River juvenile chinook salmon microhabitat data, 1985-1986 [1 cm of textual records]

File consists of raw data for juvenile chinook salmon microhabitat in the Nechako River.

Planning for 1986 Nechako River studies, 1986 [0.5 cm of textual records] File consists of handwritten notes for DFO studies on the Nechako River, work plans for the 1986- 1987 studies, a list of private consultants with IFG training, a 'Statement of Work' for surveys on the Nechako River between Cheslatta Falls and Vanderhoof, and a memorandum regarding the "Survey Contract for the Nechako River 1986".
Nechako River water temperature and total gas pressure studies, 1986 [1 cm of textual records] File consists of a summary of the 1986 Nechako River water temperature and TGP studies, memoranda regarding the studies, notes from Blachut, and contract position write-up for a Nechako River report writer. Includes photocopies of articles entitled "Stream Temperature Prediction Under Reduced Flow" by Morse; "Change in Thermal Regime as a Cause of Reduction of Benthic Fauna Downstream of a Reservoir" by Lehmkuhl; "On the Statistics of Grain Size Variation Along a Gravel River" by Church and Kellerhals; "In Defense of the Instream Flow Methodology" by Orth and Maughan; and a USGS "Water TemperatureInfluential Factors, Field Measurement, and Data Presentation".
Nechako River 1986 Chinook Juveniles Fish Captured According to Date, 1986 [2 cm of textual records] File consists of raw data for juvenile chinook salmon captured in the Nechako River during a 1986 DFO study. Data records date captured, site of capture, weight, and length. Also includes microhabitat data for site where fish were captured.
Raw data from Nechako River studies, 1985-1986 [1 cm of textual records] File consists of raw data from Nechako River studies. Includes copies of water quality data from the Nechako River gathered between 1966 and 1974 and stored in NAQUADAT. Also includes original raw data gathered from 1985-1986 studies on the Nechako River.
Field work and raw data from Nechako River studies, May 1986, May 1986 [1 cm of textual records] File consists of memoranda regarding the 1986 Nechako River studies, original raw data from May 1986 studies on the Nechako, and copies of field notes.
SAS logs for Nechako River microhabitat data, 1986 [1 cm of textual records] File consists of SAS (Statistical Analysis System) logs for analyzing microhabitat data gathered from DFO studies on the Nechako River in 1986.
Field notes from Nechako River studies, 1986 [2 cm of textual records] File consists of an original set of field notes from 1986 Nechako River studies compiled by Alger and Charbonneau. Includes notes for field work between May and July 1986 with raw microhabitat data. Also includes a copied set of the same field notes.
Field notes from Nechako River studies, 1985-1986 [0.5 cm of textual records] ***RESTRICTED*** File consists of Shirvell's field notes for August 1985 field work on the Nechako River. Also includes photocopies of field notes by Lauzier, Alger and Kotyk from scuba diving in the Nechako Canyon, 1986.
Nechako streamflow overheads, [1986?] [0.1 cm of textual records] File consists of hand drawn overheads by Cole Shirvell showing Nechako River streamflows. Overheads are meant to be layered, showing the effects of Alcan's proposed flows in the Nechako River.
'Modelling of Fish Habitat in the Nechako River", Mar. 1987 [4 cm of textual records] File consists of a photocopy of a rough draft of Shirvell's "Modelling of Fish Habitat in the Nechako River", which was prepared for the Nechako River court action.
Chinook salmon discharge and escapement data, [ca. 1987] [0.3 cm of textual records] File consists of a photocopy of "Nechako River Chinook Salmon Escapements Estimates" and a copy of discharge-escapement data for BC rivers.

	Lecture notes for Instream Flow Incremental Methodology workshop, [ca. 1987] [0.5 cm of textual records]
	File consists of a fax cover sheet and original lecture notes created by Cole Shirvell for a workshop on Instream Flow Incremental Methodology.
2003.4.4.2.26	"Instream Flow Chronicle: A Training Announcement", July 1987 [0.1 cm of textual records] File consists of a July 1987 issue of a Colorado State University training announcement (vol. 4, no. 2) entitled "Instream Flow Chronicle: A Training Announcement". Features an article by Shirvell entitled "Does the IFIM Have Biological Significance: A Critique".
2003.4.4.2.27	"Selection of Microhabitat in Summer by Juvenile Atlantic Salmon (Salmo salar)", 1987 [0.3 cm of
	textual records] File consists of an article reprint from the Canadian Journal of Fisheries and Aquatic Sciences (vol. 44, no. 1) by Morantz, Sweeney, Shirvell, and Longard entitled "Selection of Microhabitat in Summer by Juvenile Atlantic Salmon (Salmo salar)".
2003.4.4.2.28	"A Critique of the Instream Flow Methodology and Observations on Flow Determination in New
	Zealand", 1987 [0.1 cm of textual records] File consists of an article reprint from the Regulated Streams journal by Scott and Shirvell entitled "A Critique of the Instream Flow Methodology and Observations on Flow Determination in New Zealand".
2003.4.4.2.29	"Habitat Models and their Predictive Capability to Infer Habitat Effects on Stock Size", 1989 [0.1 cm of textual records]
	File consists of a reprint from the Proceedings of the National Workshop on Effects of Habitat Alteration on Salmonid Stocks by Shirvell entitled "Habitat Models and their Predictive Capability to Infer Habitat Effects on Stock Size".
2003.4.4.2.30	"Ability of PHABSIM to Predict Chinook Salmon Spawning Habitat", 1989 [0.1 cm of textual
	records] File consists of a reprint from Regulated Rivers: Research and Management (vol. 3) by Shirvell entitled "Ability of PHABSIM to Predict Chinook Salmon Spawning Habitat".
	"Role of Instream Rootwads as Juvenile Coho Salmon (Oncorhynchus kisutch) and Steelhead Trout (O. mykiss) Cover Habitat Under Varying Streamflows", 1990 [0.1 cm of textual records] File consists of a reprint from the Canadian Journal of Fisheries and Aquatic Sciences (vol. 47) by Shirvell entitled "Role of Instream Rootwads as Juvenile Coho Salmon (Oncorhynchus kisutch) and Steelhead Trout (O. mykiss) Cover Habitat Under Varying Streamflows".
	Nechako River predator-prey research, 1990 [0.5 cm of textual records] ***RESTRICTED***
	File consists of various documents regarding predator-prey research in the Nechako River. Includes study requirements for work on the Nechako, memoranda regarding the research project, draft contract proposals for the projects, and Nechako Fisheries Conservation Program proposals for the 1990-91 Competition/Predation Program.
2003.4.4.2.33	Nechako overwintering studiesArchipelago field notes, 1989-1991 [3 cm of textual records] ***RESTRICTED***
	File consists of field notes and field work records created by Archipelago Marine Research while on contract for DFO overwintering studies on the Nechako River. Includes field activity logs, photocopies of field notes, observation notes, night survey data, notes from Cole Shirvell regarding the field work, a letter to Shirvell from Emmett of Archipelago Marine Research regarding their 1990/91 contract for "Overwintering of Juvenile Salmon on the Nechako River", chinook salmon stomach contents data and fish diet tables, a Nechako electrofishing log, Nechako River fish habitat maps, and Nechako River fish position maps.

2003.4.4.2.34 Nechako overwintering studies, 1989, 1989 [4 cm of textual records] ***RESTRICTED***

File consists of records related to DFO overwintering studies on the Nechako River with Cole Shirvell as Scientific Authority. Includes a "Nechako River Technical Committee Proposal for Juvenile Chinook Salmon Overwinter Habitat" draft by Shirvell; a "Nechako River Technical Committee Proposal for Adult Chinook Spawner Enumeration"; memoranda regarding the Nechako overwintering studies; a "Nechako River Technical Committee Proposal for Assessing Models to Predict Nechako Chinook Production"; maps and data from Archipelago Marine Research field work; a January 1988 "Interim Report to the Nechako River Technical Committee on Chinook Overwintering in the Nechako River" by Archipelago; correspondence from Archipelago Marine Research; budgets for the studies; a "How to Interpret the Salmon Ageing Sheet"; a June 1989 copy of Archipelago's report prepared by Brian Emmett for DFO entitled "Overwintering of Juvenile Chinook in the Nechako River, 1988/89 Studies"; a work statement for contract research on chinook overwintering in the Nechako River; an October 16, 1989 proposal to Supply and Services Canada from Archipelago for the study "Overwintering of Juvenile Chinook in the Nechako River"; Archipelago's project plan, task schedule, and project estimates; a copy of the contract with Archipelago; an Interim Report for the studies; and a payment claim.

2003.4.4.2.35 Nechako overwintering studies, 1990, 1990 [3 cm of textual records]

File consists of records related to DFO overwintering studies on the Nechako River with Cole Shirvell as Scientific Authority. Includes memoranda regarding the overwintering studies; a contract amendment for Archipelago Marine Research; correspondence from Archipelago; multiple drafts of a work statement for contract research on juvenile chinook salmon overwintering in the Nechako River study (including a digital copy on a 5 1/4" floppy); Shirvell's handwritten notes regarding the study; an RFP for the study; a revised proposal from Archipelago for the 1990 study; and a contract for Archipelago for the 1990 study.

2003.4.4.2.36 Nechako overwintering studies, 1991, 1991 [2 cm of textual records]

File consists of records related to DFO overwintering studies on the Nechako River with Cole Shirvell as Scientific Authority. Includes copies of scientific articles; correspondence regarding the Archipelago contract for the study; contracts for Archipelago; DFO memoranda; meeting minutes; and a draft table of contents for the report resulting from the study.

2003.4.4.2.37 Nechako overwintering studies, 1992-1994, 1992-1994 [2 cm of textual records]

File consists of records related to DFO overwintering studies on the Nechako River with Cole Shirvell as Scientific Authority. Includes copies of scientific articles; correspondence regarding the Archipelago contract for the study; contracts for Archipelago; DFO memoranda; and drafts of the report resulting from the study.

2003.4.4.2.38 Editorial assistance with Nechako River overwintering study report, 1990-1992 [0.5 cm of textual records]

File consists of correspondence with and contracts for a scientific editor to edit the Nechako River overwintering studies reports.

2003.4.4.2.39 "Overwintering of Juvenile Chinook in the Nechako River, 1989/90 Studies" (draft), May 1990 [1 cm of textual records]

File consists of a draft copy of a report for the "Overwintering of Juvenile Chinook in the Nechako River, 1989/90 Studies", prepared by Emmett and Convey for Shirvell and DFO. Includes accompanying correspondence regarding the report.

"Overwintering of Juvenile Chinook in the Nechako River, 1989/90 Studies", Aug. 1990 [1 cm of textual records]

File consists of an August 1990 copy of a report for the "Overwintering of Juvenile Chinook in the Nechako River, 1989/90 Studies", prepared by Emmett and Convey for Shirvell and DFO.

"An Early Winter Survey of Juvenile Chinook in the Nechako River" (draft), Nov. 1992 [1 cm of textual records] File consists of a draft copy of "An Early Winter Survey of Juvenile Chinook in the Nechako River" by Emmett, Convey and English. Includes annotations from Shirvell.
"Abundance, Distribution, Size, and Age of Adult and Juvenile Chinook Salmon in the Upper Sustut River, 1992 to 1996", 1997 [0.1 cm of textual records] File consists of a draft of Shirvell's Canadian Technical Report of Fisheries and Aquatic Sciences entitled "Abundance, Distribution, Size, and Age of Adult and Juvenile Chinook Salmon in the Upper Sustut River, 1992 to 1996".

Envirocon and Alcan Subseries 1980-1984 0.3 m of textual records (1 box)

Subseries primarily consists of reports and publications created by Envirocon Limited, the environmental consultants contracted by Alcan for the Kemano Completion Project environmental assessment. Also includes records created by Envirocon, Alcan, and the Department of Fisheries and Oceans regarding joint meetings and Envirocon's scientific methodology.

2003.4.4.3 - File List (Box 13)

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2003.4.4.3.01	"Preliminary Results of Chinook Salmon Studies in the Nechako River: Volume 1 - Interim Report" (draft), 25 June 1980 [1 cm of textual records] File consists of a draft copy of a report by Envirocon entitled "Preliminary Results of Chinook Salmon Studies in the Nechako River: Volume 1 - Interim Report".
2003.4.4.3.02	"Investigation of the Sensitivity of Average Power Flows to Various Definitions of Existing Stock Size" (draft), July 1982 [0.5 cm of textual records] File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric Development Technical Memorandum by Envirocon entitled "Investigation of the Sensitivity of Average Power Flows to Various Definitions of Existing Stock Size".
2003.4.4.3.03	"Possible Criteria for the Evaluation of Usable Salmonid Habitat" (draft), Aug. 1982 [0.5 cm of textual records] File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric Development Technical Memorandum by Envirocon entitled "Possible Criteria for the Evaluation of Usable Salmonid Habitat".
2003.4.4.3.04	"The Early Life-History of Chinook Salmon in the Nechako River, B.C. During 1981 and 1982" (draft), Sept. 1982 [1 cm of textual records] File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric Development Technical Memorandum by Envirocon entitled "The Early Life-History of Chinook Salmon in the Nechako River, B.C. During 1981 and 1982".
2003.4.4.3.05	"Determination of Useable Chinook Rearing Habitat in the Nechako River" (draft), Sept. 1982 [0.3 cm of textual records] File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric Development Technical Memorandum by Envirocon entitled "Determination of Useable Chinook Rearing Habitat in the Nechako River".
2003.4.4.3.06	"Possible Methods of Modelling Salmonid Habitat" (draft), Oct. 1982 [0.3 cm of textual records] File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric Development Technical Memorandum by Envirocon entitled "Possible Methods of Modelling Salmonid Habitat".
2003.4.4.3.07	"Methods for the Determination of Spawning and Incubation Flow Requirements of Chinook Salmon" (draft), Dec. 1982 [0.3 cm of textual records] File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric Development Technical Memorandum by Envirocon entitled "Methods for the Determination of Spawning and Incubation Flow Requirements of Chinook Salmon".

2003 4 4 3 09	Envirocon, Alcan, and Department of Fisheries and Oceans correspondence, 1982-1983 [2 cm of
2003.4.4.3.08	textual records]
	File consists of correspondence between Envirocon, Alcan, and the Department of Fisheries and
	Oceans. Includes correspondence from the DFO's Alcan Joint Task Force Committee, meeting
	agendas, materials from presentations by Envirocon/Alcan to DFO, and internal DFO memoranda.
2003.4.4.3.09	Alcan promotional material, 1983 [0.3 cm of textual records]
	File consists of promotional material produced by Alcan. Includes "Notes for an Address by W.J.
	Rich, Vice President for British Columbia, Aluminum Company of Canada, Ltd." given in Smithers in
	March 1983; a March 13, 1983 Alcan Bulletin entitled "Most Nanika Diversion Water to Come from High Summer FlowsWinter Flows Increased"; a March 1983 issues of Alcan's "Update" newsletter
	on the Kemano Completion Project; and an Alcan promotional brochure for the Kemano Completion
	Project.
2003.4.4.3.10	"Documentation of the Habitat Modelling Process", Mar. 1983 [1 cm of textual records]
	File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric
	Development Technical Memorandum by Envirocon entitled "Documentation of the Habitat
	Modelling Process".
2003.4.4.3.11	"Chinook Salmon Spawning, Incubation and Emergence Studies in the Nechako River, B.C. During
	1980-1981", Apr. 1983 [0.5 cm of textual records]
	File consists of a copy of an Aluminum Company of Canada Kemano Completion Hydroelectric
	Development Technical Memorandum by Envirocon entitled "Chinook Salmon Spawning, Incubation and Emergence Studies in the Nechako River, B.C. During 1980-1981".
2002 4 4 2 12	"Habitat Preferences and Densities of Juvenile Salmonids in the Morice River During September,
2003.4.4.3.12	1982" (draft), Aug. 1983 [0.5 cm of textual records]
	File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric
	Development Technical Memorandum by Envirocon entitled "Habitat Preferences and Densities of
	Juvenile Salmonids in the Morice River During September, 1982".
2003.4.4.3.13	"Chinook Salmon Fry Density in Relation to Depth, Velocity, Substrate and Cover in the Nechako
	River" (draft), Oct. 1983 [0.5 cm of textual records] File consists of a draft copy of an Aluminum Company of Canada Kemano Completion Hydroelectric
	Development Technical Memorandum by Envirocon entitled "Chinook Salmon Fry Density in
	Relation to Depth, Velocity, Substrate and Cover in the Nechako River".
2003.4.4.3.14	"The Envirocon and IFG Physical Habitat Simulation Models", 21 Oct. 1983 [1 cm of textual
	records]
	File consists of a paper by Robert Milhous entitled "The Envirocon and IFG Physical Habitat
	Simulation Models".
2003.4.4.3.15	"Kemano Completion Hydroelectric Development: Information and Rationale Used to Determine
	Fish Protection Measures - Nechako River", [1983?] [2 cm of textual records]
	File consists of a partial photocopy of Envirocon's "Kemano Completion Hydroelectric Development: Information and Rationale Used to Determine Fish Protection Measures - Nechako River". Includes
	the following sections: "Considerations Made in Deriving Flow Recommendations for the Nechako
	River" and :Nechako River Hydrology".
2003.4.4.3.16	"Kemano Completion Hydroelectric Development: Information and Rationale Used to Determine
	Fish Protection Measures - Nanika and Morice Rivers", [1983?] [2 cm of textual records]
	File consists of a partial photocopy of Envirocon's "Kemano Completion Hydroelectric Development:
	Information and Rationale Used to Determine Fish Protection Measures - Nanika and Morice
	Rivers". Includes the following sections: "Material Presented on 15 March 1983"; "Considerations
	Made in Deriving Flow Recommendations for the Morice River"; and "Considerations Made in Deriving Flow Recommendations for the Nanika River".
	Detrains from recommendations for the Natinka River .

2003.4.4.3.17	
	"A Comparison of the Results from Habitat-ENV with Results from Habitat (IFG)", [1983?] [0.5 cm of textual records]
	File consists of a photocopy of an Envirocon graphs and tables, possibly copies of overheads used in a presentation entitled "A Comparison of the Results from Habitat-ENV with Results from Habitat (IFG)".
2003.4.4.3.18	"Chinook Salmon by Life Cycle Stage", [1983?] [0.5 cm of textual records]
	File consists of a photocopy of an Envirocon graphs and tables, possibly copies of overheads used in a presentation entitled "Chinook Salmon by Life Cycle Stage".
2003.4.4.3.19	"Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 5: Fish Resources of the Nechako River System Baseline Information", Jan.
	1984 [4 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano
	Completion Hydroelectric Development - Volume 5: Fish Resources of the Nechako River System
	Baseline Information" by Envirocon prepared for Alcan. Annotated by Cole Shirvell.
2003.4.4.3.20	"Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 15: Environmental Planning and Project Design", Jan. 1984 [4 cm of textual records]
	File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano
	Completion Hydroelectric Development - Volume 15: Environmental Planning and Project Design"
	by Envirocon prepared for Alcan. Annotated by Cole Shirvell.
2003.4.4.3.21	"Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 16: Environmental Impact Assessment Methods and Criteria", Jan. 1984 [1]
	cm of textual records]
	File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano
	Completion Hydroelectric Development - Volume 16: Environmental Impact Assessment Methods
	and Criteria" by Envirocon prepared for Alcan.
2003.4.4.3.22	"Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment",
	Jan. 1984 [2 cm of textual records]
	File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano
	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental
2003.4.4.3.23	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan.
2003.4.4.3.23	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental
2003.4.4.3.23	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records]
2003.4.4.3.23	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano
2003.4.4.3.23	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas
	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan.
	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas
	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment", Jan. 1984 [3 cm of textual records]
	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment", Jan. 1984 [3 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano
	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment", Jan. 1984 [3 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas
2003.4.4.3.24	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment", Jan. 1984 [3 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. Annotated by Cole Shirvell.
2003.4.4.3.24	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment", Jan. 1984 [3 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. Annotated by Cole Shirvell. Excerpts from Envirocon environmental studies, Jan. 1984 [2 cm of textual records]
2003.4.4.3.24	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment", Jan. 1984 [3 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. Annotated by Cole Shirvell. Excerpts from Envirocon environmental studies, Jan. 1984 [2 cm of textual records] File consists of photocopied excerpts from "Environmental Studies Associated with the Proposed
2003.4.4.3.24	Completion Hydroelectric Development - Volume 18: Lower Nanika Assessment Area Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment", Jan. 1984 [2 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 19: Morice-Bulkley and Skeena Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment", Jan. 1984 [3 cm of textual records] File consists of an original copy of "Environmental Studies Associated with the Proposed Kemano Completion Hydroelectric Development - Volume 21: Nechako River and Fraser Assessment Areas Environmental Impact Assessment" by Envirocon prepared for Alcan. Annotated by Cole Shirvell. Excerpts from Envirocon environmental studies, Jan. 1984 [2 cm of textual records]

Nechako River Court Action Subseries 1980-1987

1.15 m of textual records (3.5 boxes)

Subseries consists of records concerning the Nechako River court action that began in 1980 and ended in 1987 with a settlement agreement. The case (Attorney General of Canada vs. Attorney General of British Columbia vs. Alcan Aluminum) was in regard to the increased need for water rights to the Nechako River as a result of Alcan's Kemano Completion Project.

2003.4.4.4 - File List (Box 14-17)

2003.4.4.4.01	Attorney General of Canada v. Alcan, 1980-1986 [2 cm of textual records] ***RESTRICTED***
	File predominately consists of correspondence relating to the Canada v. Alcan case. Includes an affidavit for the case, correspondence to and from legal counsel, a photocopy of Envirocon's "Review of the 1984 Nechako River Hydrothermal Monitoring and Control Program" sent from Alcan, and internal DFO memoranda.
2003.4.4.4.02	Development of DFO position on the Kemano Completion Project, 1983 [1 cm of textual records] File consists of records relating to the development of the Department of Fisheries and Oceans' position on the Alcan Kemano Completion Project. Includes internal memoranda, Mundie's comments on the DFO position paper, and an agenda and notes for the Kemano Completion Steering Committee.
2003.4.4.4.03	"Toward a Fish Habitat Decision on the Kemano Completion Project: A Discussion Paper", Jan. 1984 [0.5 cm of textual records] File consists of an original copy of DFO's "Toward a Fish Habitat Decision on the Kemano Completion Project: A Discussion Paper", with annotations by Shirvell. Includes accompanying errata, Shirvell's notes, a news release about the publication, and a summary of the report by the International Pacific Salmon Fisheries Commission entitled "Potential Effects of the Kemano Completion Project on Fraser River Sockeye and Pink Salmon".
2003.4.4.4.04	"Toward a Fish Habitat Management Policy for the Department of Fisheries and Oceans: A Response from the United Fishermen and Allied Workers Union", 31 Dec. 1983 [0.1 cm of textual records] File consists of an original copy of "Toward a Fish Habitat Management Policy for the Department of Fisheries and Oceans: A Response from the United Fishermen and Allied Workers Union".
2003.4.4.4.05	"Nechako River Fisheries Management Plan, 1984-1993: Presentation Made by D. Ableson to Nechako Neyenkut Society", 14 Feb. 1984 [0.3 cm of textual records] File consists of a copy of "Nechako River Fisheries Management Plan, 1984-1993: Presentation Made by D. Ableson to Nechako Neyenkut Society", annotated by Shirvell.
2003.4.4.4.06	"Brief Submitted to the Department of Fisheries' Public Hearing, Vanderhoof, B.C., by the Council of the Corporation of the Village of Fort St. James", 3 Mar. 1984 [0.3 cm of textual records] File consists of an original copy of a "Brief Submitted to the Department of Fisheries' Public Hearing, Vanderhoof, B.C., by the Council of the Corporation of the Village of Fort St. James".
2003.4.4.4.07	"Presentation to the Department of Fisheries and Oceans Public Meeting by Archie Patrick, President, Carrier Sekani Tribal Council", 3 Mar. 1984 [1 cm of textual records] File consists of an original copy of a "Presentation to the Department of Fisheries and Oceans Public Meeting by Archie Patrick, President, Carrier Sekani Tribal Council".

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2003.4.4.4.08	DFO public meetings in Vanderhoof and Smithers concerning the Kemano Completion Project, Mar. 1984 [5 cm of textual records] File predominately consists of submissions and briefs for the DFO public meetings in Vanderhoof and Smithers concerning the Kemano Completion Project. Includes related correspondence, news releases, and Shirvell's notes as a panel member during the public meetings.
2003.4.4.4.09	DFO public meetings in Vancouver and Prince Rupert concerning the Kemano Completion Project, Apr. 1984 [4 cm of textual records] File predominately consists of submissions and briefs for the DFO public meetings in Vancouver and Prince Rupert concerning the Kemano Completion Project. Includes related correspondence, copies of newspaper clippings, an advertisement for a Warner fishlift, and Shirvell's notes as a panel member during the public meetings.
2003.4.4.4.10	DFO preparation for Nechako River court action, 1984-1985 [2 cm of textual records] ***RESTRICTED*** File consists of correspondence and other records relating to the DFO public meetings, the DFO position on the Kemano Completion Project, and the developing Nechako River court action. Includes internal DFO memoranda; a copy of a 1984 report by Slaney et al. entitled "Habitat Capability Analysis of the Nechako River for Rainbow Trout and Char and the Effects of Various Flow Regimes"; correspondence regarding the Kemano Task Force and its report; a document by Boyd entitled "Resource Activities Required for the Nechako Court Case and Possible Joint Technical Meetings"; Shirvell's "Technical Statement for Nechako River Court Action - DFO vs. Alcan: Habitat Modelling"; and a newsletter from the Nechako Neyenkut Society.
2003.4.4.4.11	Kemano Completion Task Force, 1984-1985 [0.5 cm of textual records] File consists of correspondence and other records relating to the DFO Kemano Completion Task Force. Includes a proposal to establish a Kemano Completion Task Force, internal DFO memoranda, and a report entitled "Activities of Fisheries and Oceans Associated with Alcan's Kemano Project in British Columbia".
2003.4.4.4.12	"A Report of the Kemano Task Force", Dec. 1985 [4 cm of textual records] File consists of an annotated photocopy the December 1985 draft of the "Report of the Kemano Task Force", edited by Schouwenburg.
2003.4.4.4.13	"A Report of the Kemano Task Force", Aug. 1987 [4 cm of textual records] File consists of an original copy of the August 1987 final draft of the "Report of the Kemano Task Force", edited by Schouwenburg. Includes accompanying memoranda regarding the report.
2003.4.4.4.14	"A Report of the Kemano Task Force", Apr. 1990 [4 cm of textual records] File consists of an original copy of the April 1990 final version of the "Report of the Kemano Task Force", edited by Schouwenburg. Includes accompanying memoranda regarding the report.
2003.4.4.4.15	"Expert Report for the Nechako River Court Action - J.H. Mundie", [1986] [0.3 cm of textual records] File consists of J.H. Mundie's expert report for the Nechako River court action. Includes curriculum vitae.

2003.4.4.4.16 Nechako River court action expert reports, 1986 [4 cm of textual records]

File consists of copies of DFO expert report for the Nechako River court action and related records. Includes DFO memoranda regarding the expert reports; Shirvell's "Technical Statement for Nechako River Court Action - DFO vs. Alcan: Habitat Modelling"; Jensen's expert report "Assessment of the Influence of Excess Total Gas Pressure (TGP) on Salmonids in the Nechako River"; Servizi's expert report "Nechako River Total Gas Pressure: Critique of Alcan Predictions and Review of Total Gas Pressure and Flow"; William's expert report regarding cooling flows; Harrison and Wilson's expert report "The Management and Status of Nechako River Chinook Salmon"; Healey's expert reports entitled "The Spawning of Chinook Salmon and Their Spawning Requirements", "The General Ecology of Chinook Salmon That Spawn in Headwater Tributaries", and "Report on Miscellaneous Topics Relating to DFO Flow Requirements in the Nechako River"; Bell's expert report "Effect of Elevated Water Temperatures on Infectious Diseases of Salmon"; Hamilton's expert reports "Availability of Water", "Relationship of Flow to Spawning and Incubation Habitat", and "Relationship of Flow to Rearing Habitat"; Blachut's expert report; and Slaney's affidavit.

2003.4.4.4.17 "Nechako River Court Action - Alcan Expert Reports: Index of Expert Reports and Qualifications of Experts (Volume 1)", Feb. 1987 [1 cm of textual records]

RESTRICTED

File consists of an original copy of "Nechako River Court Action - Alcan Expert Reports: Index of Expert Reports and Qualifications of Experts (Volume 1)".

2003.4.4.4.18 "Nechako River Court Action - Alcan Expert Reports: Flow Regimes (Volume 2)", Feb. 1987 [1 cm of textual records]

File consists of an original copy of "Nechako River Court Action - Alcan Expert Reports: Flow Regimes (Volume 2)". Includes Donald W. Chapman's expert report, "Nechako River Flow Regime: A Report to the Court". Also includes Bruce W. Jenkin's expert report, "Statement of Evidence on the Adequacy of Pleadings Flows to Protect Fish Populations of the Nechako River".

2003.4.4.4.19 "Nechako River Court Action - Alcan Expert Reports: Physical Studies (Volume 3)", Feb. 1987 [1 cm of textual records]

RESTRICTED

File consists of an original copy of "Nechako River Court Action - Alcan Expert Reports: Physical Studies (Volume 3)". Includes A. Clyde Mitchell's expert report, "Statement of Evidence on Nechako River Flow Regimes and Hydraulic Characteristics". Also includes Rolf Kellerhals' expert report, "Effects of Alcan's Proposed Nechako River Flow Regime on Channel Morphology".

"Nechako River Court Action - Alcan Expert Reports: Statement of Evidence on Habitat Modelling on the Nechako River, A. Clyde Mitchell (Volume 4)", Feb. 1987 [2 cm of textual records] File consists of an original copy of "Nechako River Court Action - Alcan Expert Reports: Statement of Evidence on Habitat Modelling on the Nechako River, A. Clyde Mitchell (Volume 4)".

2003.4.4.4.21 "Nechako River Court Action - Alcan Expert Reports: Water Quality (Volume 5)", Feb. 1987 [2 cm of textual records]

File consists of an original copy of "Nechako River Court Action - Alcan Expert Reports: Water Quality (Volume 5)". Includes A. Clyde Mitchell's expert report, "Statement of Evidence on Nechako River Total Dissolved Gas Levels". Also includes Niko R. Zorkin's expert report, "Assessment of Heavy Metal Concentrations in the Nechako River". Additionally, includes H.R. Hamilton's expert report, "Report on Nutrient Water Quality of Nechako River".

2003.4.4.4.22 "Nechako River Court Action - Alcan Expert Reports: Chinook Salmon and Their Habitat Requirements (Volume 6)", Feb. 1987 [1 cm of textual records] File consists of an original conv of "Nechako River Court Action - Alcan Expert Reports: Chi

File consists of an original copy of "Nechako River Court Action - Alcan Expert Reports: Chinook Salmon and Their Habitat Requirements (Volume 6)". Includes Bruce W. Jenkins' expert reports, "Statement of Evidence on Chinook Salmon Resources in the Nechako River" and "Statement of Evidence on Habitat Requirements of Chinook Salmon in the Nechako River". Also includes Joan Kilby's expert report, "Benthic Invertebrate Fauna of the Nechako River".

2003.4.4.4.23 "Nechako River Court Action - Alcan Expert Reports: Temperature Studies (Volume 7)", Feb. 1987 [2 cm of textual records]

File consists of an original copy of "Nechako River Court Action - Alcan Expert Reports: Temperature Studies (Volume 7)". Includes Glen H. Geen's expert report, "Statement of Evidence on the Effects of Temperature on Migrating Adult Sockeye Salmon". Also includes A. Clyde Mitchell's expert reports, "Statement of Evidence on Nechako River Water Temperature Distribution" and "Statement of Evidence on Changes in Fraser River Water Temperatures". Additionally, includes John Eric Edinger's expert report, "Review of Envirocon Ltd. Hydrothermal Modelling and Analyses of the Nechako River For Alcan".

2003.4.4.4.24 "Nechako River Court Action - DFO Expert Reports: General Ecology (Volume 1)", Feb. 1987 [1 cm of textual records]

File consists of an original copy of "Nechako River Court Action - DFO Expert Reports: General Ecology (Volume 1)". Includes an index to the DFO expert reports and M.C. Healey's expert report, "The Ecology of Chinook Salmon That Spawn in Headwater Tributaries and River Flows Necessary to Conserve Such Populations".

2003.4.4.4.25 "Nechako River Court Action - DFO Expert Reports: Fisheries Management (Volume 2)", Feb. 1987 [1 cm of textual records]

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File consists of an original copy of "Nechako River Court Action - DFO Expert Reports: Fisheries Management (Volume 2)". Includes C. Robin Harrison's expert report, "The Management and Status of Fraser and Nechako River Chinook Salmon". Also includes Patrick A. Slaney's expert report, "Assessment of the Influence of Flows on the Rainbow Trout and Char Populations of the Nechako River".

2003.4.4.4.26 "Nechako River Court Action - DFO Expert Reports: Physical Studies (Volume 3)", Feb. 1987 [1 cm of textual records]

RESTRICTED

File consists of an original copy of "Nechako River Court Action - DFO Expert Reports: Physical Studies (Volume 3)". Includes Roy E. Hamilton's expert reports, "Availability of Water" and "Physical Methods Used by Alcan and by DFO to Determine the Relationship of Flow to Rearing Habitat".

| 2003.4.4.4.27 | "Nechako River Court Action - DFO Expert Reports: Over-Winter Flows (Volume 4)", Feb. 1987 [1 cm of textual records]

RESTRICTED

File consists of an original copy of "Nechako River Court Action - DFO Expert Reports: Over-Winter Flows (Volume 4)". Includes S.P. Blachut's expert report, "Physical Winter Conditions Nechako River". Also includes R.A. Bams expert report, "Biological Effects of Winter Flows".

2003.4.4.4.28 "Nechako River Court Action - DFO Expert Reports: Summer Temperature Control (Volume 5)", Feb. 1987 [1 cm of textual records]

RESTRICTED

File consists of an original copy of "Nechako River Court Action - DFO Expert Reports: Summer Temperature Control (Volume 5)". Includes G.R. Bell's expert report, "Effect of Elevated Water Temperatures on Infectious Diseases of Salmon". Also includes I.V. Williams' expert report, "The Effects of Water Temperature on Adult Sockeye". Additionally, includes P.B. Saxvik's expert report, "Control of Water Temperature by Manipulation of River Flow".

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2003.4.4.4.29	"Nechako River Court Action - DFO Expert Reports: Total Gas Pressure (Volume 6)", Feb. 1987 [2 cm of textual records] ***RESTRICTED ***
	File consists of an original copy of "Nechako River Court Action - DFO Expert Reports: Total Gas Pressure (Volume 6)". Includes James A. Servizi's expert report, "Review of Total Gas Pressure and Flow and Critique of Alcan's Predictions". Also includes J.O.T. Jensen's expert report, "Assessment of the Influence of Excess Total Gas Pressure (TGP) on Salmonids in the Nechako River".
2003.4.4.4.30	"Nechako River Court Action - DFO Expert Reports: Geomorphology (Volume 7)", Feb. 1987 [1 cm
	of textual records]
	RESTRICTED
	File consists of an original copy of "Nechako River Court Action - DFO Expert Reports: Geomorphology (Volume 7)". Includes Kenneth M. Rood's expert report, "The Effects of Regulation of Flow in the Nechako River on Channel Morphology, Sediment Transport and Deposition and Flushing Flows". Also includes Charles R. Neill's expert report, "Effects of Flow Regulation on Channel Morphology, Sediment Transport and Deposition, and Flushing Flows".
2003.4.4.4.31	"Nechako River Court Action - DFO Expert Reports: Modelling of Fish Habitat in the Nechako River (Volume 8)", Apr. 1987 [4 cm of textual records]
	RESTRICTED
	File consists of an original copy of "Nechako River Court Action - DFO Expert Reports: Modelling of Fish Habitat in the Nechako River (Volume 8)", which include C.S. Shirvell's expert report.
2003.4.4.4.32	Shirvell's review of Alcan expert reports, Feb. 1987 [2 cm of textual records] ***RESTRICTED ***
	File consists of photocopies of Shirvell's handwritten reviews of Alcan expert reports. Includes Shirvell's reviews of the expert reports by A. Clyde Mitchell, Bruce W. Jenkins, and Donald W. Chapman. Also includes memoranda regarding the DFO's critical review of the Alcan expert reports.
2003.4.4.4.33	Rebuttals to Shirvell's expert report entitled "Modelling of Fish Habitat in the Nechako River",
	May 1987 [1 cm of textual records] File consists of rebuttals to Shirvell's expert report entitled "Modelling of Fish Habitat in the Nechako River". Includes Donald W. Chapman's report entitled "Modelling of Fish Habitat in the Nechako River: A Rebuttal to a Report by C.S. Shirvell by D.W. Chapman". Also includes A. Clyde Mitchell and Bruce W. Jenkin's report entitled "A Rebuttal of the Expert Report by C.S. Shirvell Entitled 'Modelling of Fish Habitat in the Nechako River".
2003.4.4.4.34	"Review Comments on Dr. Don Chapman's Rebuttal Report to C.S. Shirvell's Expert Witness
	Report", 20 May 1987 [2 cm of textual records] File consists of a photocopy of Shirvell's handwritten "Review Comments on Dr. Don Chapman's Rebuttal Report to C.S. Shirvell's Expert Witness Report".
2003.4.4.4.35	Correspondence regarding expert reports, 1987 [0.5 cm of textual records] ***RESTRICTED ***
	File consists of correspondence and notes regarding the expert reports for the Nechako River court action. Includes commentary on the reports and lists of errata for the various reports.
2003.4.4.4.36	Summary of Kemano Completion documents and files, May 1983 [1 cm of textual records] File consists of a document entitled "Summary of Kemano Completion documents and files", which was likely a document created by a DFO research scientist compiling all of the records and publications in his possession that related to the Nechako River court action.
2003.4.4.4.37	Review of chinook salmon rearing documents for discovery, Oct. 1986 [4 cm of textual records] File consists of documents provided by Alcan and Envirocon regarding chinook salmon rearing. Shirvell reviewed these documents "for discovery" and commented via annotations.

	"List of Documents of Attorney General of British Columbia", June 1986 [1.5 cm of textual records] File consists of a list of documents sent to the Department of Fisheries and Oceans from the B.C. provincial government ("Attorney General of British Columbia") for the Nechako River court action. Includes accompanying memoranda regarding the list of documents in regards to preparing for the trial.
2003.4.4.4.39	Examination for discovery for Nechako River court action, 1986 [2 cm of textual records] File consists of records relating to the examination of documents for discovery for the Nechako River court action. Includes correspondence from legal counsel, Shirvell's responses to questions for discovery, and DFO memoranda regarding trial preparation.
2003.4.4.4.40	Inspection and discovery of documents for Nechako River court action, Feb. 1986 [2 cm of textual records] File consists of a DFO memorandum regarding the inspection and discovery of documents for Nechako River court action. Attached are photocopies of the commentary on the documents reviewed for the court case and an identification table for the reviewed documents.
2003.4.4.4.41	Examination for discovery from Alcan, Jan. 1987 [1 cm of textual records] File consists of documents resulting from the examination for discovery process from Alcan. Includes DFO memoranda regarding the responses from Alcan, responses to questions to Alcan from DFO, and requested documents.
2003.4.4.4.42	Correspondence and memoranda related to Nechako River court action, 1986 [4 cm of textual records] ***RESTRICTED*** File consists of correspondence and memoranda related to the Nechako River court action. Includes DFO memoranda regarding preparation for the Canada vs. Alcan court case; a list of documents held by Alcan relating to the case; a list of bioengineering reports produced by DFO, which DFO scientists needed to review for documents that were not to be given to Alcan; and correspondence to legal counsel.
2003.4.4.4.43	Documents from the Philadelphia and Susquehanna Power Company Case, 23 June 1986 [1 cm of textual records] File consists of a letter from Dilip Mathur with attachments of photocopies of records from the case of the Philadelphia Electric Power Company and the Susquehanna Power Company before the U.S. Federal Energy Regulatory Commission.
	Instream Flow Incremental Methodologies documents for Nechako River court action, 18 Aug. 1986 [6 cm of textual records] File consists of Instream Flow Incremental Methodologies documents gathered in preparation for the Nechako River court action. Includes photocopies of correspondence; the "Direct Testimony of Ken. D. Bovee submitted on behalf of the United States Department of the Interior" in the case of the Philadelphia Electric Power Company before the Federal Energy Regulatory Commission; "Guidelines for Preparing Expert Testimony in Water Management Decisions Related to Instream Flow Issues" by the Cooperative Instream Flow Service Group; abstracts and publications lists related to IFIM; "Instream Flow Methodologies Research Project" prepared by J. Emil Morhardt for the Electric Power Research Institute; Envirocon records; a draft copy of Envirocon's Technical Memorandum, "Methods for the Determination of Spawning and Incubation Flow Requirements of Chinook Salmon"; Jenkins and Mitchell's review of Slaney et al. (1984) report on Nechako trout and char; and a draft copy of Envirocon's Technical Memorandum, "Documentation of the Habitat Modelling Process".
2003.4.4.4.45	Deposition evidence of C. Stalknaker and R. Milhous for Nechako court action, 19 Aug. 1987 [1 cm of textual records] File consists of a DFO memorandum regarding the deposition evidence of C. Stalknaker and R. Milhous for the Nechako court action. Attached to the memorandum are photocopies of the two deposition statements.

2003.4.4.4.46 Correspondence and memoranda leading up to the 1987 settlement agreement, 1987 [6 cm of textual records

* * * RESTRICTED * * *

File consists of correspondence and memoranda leading up to the 1987 settlement agreement. Includes correspondence regarding a Reid Crowther & Partners Ltd. report, legal counsel for the court case, the out-of-court settlement, and the final settlement agreement. Also includes a reprint of Mundie's article "Predictability of the Consequences of the Kemano Hydroelectric Proposal for Natural Salmon Populations"; a copy of Behnke's "Critique of Instream Flow Methodologies"; copies of documents with advice for expert witnesses, including a "Guidebook on the Preparation and Submission of Expert Witness' Evidence"; a copy of Langer's article "The Professional Fisheries Scientist as an Expert Witness"; a 1987 paper by Robert Behnke entitled "The Illusion of Technique and Fisheries Management"; the "Agreement Respecting Studies and Data Between Attorney-General of Canada and the Aluminum Company of Canada Limited"; lists of documents agreed to by DFO and Alcan; copies of the documents "Summary of Remedial Measures Options" and "Proposed Nechako River Monitoring and Remedial Measures"; copies of depositions of Clair B. Stalnaker and Robert T. Milhous; graphics intended for display during expert witness testimonies; a background paper from Alcan regarding "Court Proceedings involving the Federal Department of Fisheries and Oceans versus Alcan and the Province of British Columbia"; a copy of the 1987 settlement agreement; and a folder for DFO employees for the announcement of the agreement including a news release, biographies, and a copy of the agreement.

2003.4.4.4.47

Correspondence and memoranda related to Nechako River court action, 1986-1987 [2 cm of textual records

RESTRICTED

File consists of documents, correspondence and memoranda related to the Nechako River court action. Includes correspondence regarding the Nechako River court action (including correspondence from legal counsel); documents regarding Nechako River aerial photography; a copy of a summary of "Nechako River Water Temperature and TGP Studies, 1986" along with accompanying maps and technical drawings; meeting agendas; and copies of Alcan and Envirocon documents.

2003.4.4.4.48

"Notes on the Analysis of Risk in the DFO-Alcan Case", Jan. 1987 [1 cm of textual records] File consists of a copy of Stanbury and Vertinsky's report entitled "Notes on the Analysis of Risk in the DFO-Alcan Case", annotated by Shirvell. Includes accompanying memoranda and notes regarding the report.

2003.4.4.4.49

Press conference and newscast transcripts, 1987 [2 cm of textual records]

File consists of press conference and newscast transcripts. Includes copies of "Media Roundup" (a DFO Communications Branch release that provided newscast transcripts relating to DFO activities) and transcripts from press conferences and other media events and releases concerning the Department of Fisheries and Oceans, particularly the 1987 settlement agreement with Alcan.

2003.4.4.4.50

1987 Settlement Agreement, 1987 [1 cm of textual records]

File consists of a file folio that was produced by the Department of Fisheries and Oceans on the occasion of the 1987 settlement agreement between DFO, the provincial government of BC, and Alcan. Includes a copy of the settlement agreement, a news release, biographies of the Nechako River Working Group involved in the settlement process, and an original October 1986 copy of the DFO "Policy for the Management of Fish Habitat".

Nechako Fisheries Conservation Program Subseries 1986-1998

15 cm of textual records – 2 cm of cartographic material

Subseries consists of material relating to the Nechako Fisheries Conservation Program, predominantly publications and reports. Includes some correspondence between NFCP and the Department of Fisheries and Oceans. Also includes air photo maps of the Nechako River from 1990.

2003.4.4.5 - File List (Box 17)

	"Settlement Agreement: 14 September 1987", 1987 [0.5 cm of textual records] File consists of a document produced by the Nechako Fisheries Conservation Program entitled "Settlement Agreement: 14 September 1987", which includes a copy of the settlement agreement between DFO, the provincial government and Alcan. Also includes copies of correspondence and news releases related to the creation of the settlement agreement. "Nechako Fisheries Conservation Program Annual Report: September 14, 1987-March 31, 1988", 7
	Apr. 1988 [1 cm of textual records] File consists of an original copy of "Nechako Fisheries Conservation Program Annual Report: September 14, 1987-March 31, 1988". Includes accompanying correspondence regarding the annual report.
	Correspondence relating to the Nechako Fisheries Conservation Program, 1988-1989 [0.3 cm of textual records] File consists of correspondence relating to the Nechako Fisheries Conservation Program. Includes a project plan for the Juvenile Chinook Salmon Overwintering Habitat study, NFCP correspondence to the DFO Technical Committee Members, a copy of the "1988-89 Nechako River Program Rationale", and a draft copy of the NFCP "Preliminary Proposal 1989/90 for the Juvenile Outmigration Monitoring".
2003.4.4.5.04	"Nechako Fisheries Conservation Program Annual Report 1988/89", 31 Mar. 1989 [1 cm of textual records] File consists of an original copy of "Nechako Fisheries Conservation Program Annual Report 1988/89". Includes accompanying correspondence regarding the annual report.
2003.4.4.5.05	"1988/89 Studies on the Nechako River: Investigations into the Use of Instream Cover Structures by Juvenile Chinook Salmon", Oct. 1988 [0.5 cm of textual records] File consists of a draft copy of the report "1988/89 Studies on the Nechako River: Investigations into the Use of Instream Cover Structures by Juvenile Chinook Salmon" produced by Envirocon for the Nechako Fisheries Conservation Program. Includes accompanying correspondence relating to the report.
	"Nechako Fisheries Conservation Program Detailed Terms of Reference for 1989/90 Program", Mar. 1989 [2 cm of textual records] File consists of an original copy of "Nechako Fisheries Conservation Program Detailed Terms of Reference for 1989/90 Program".
2003.4.4.5.07	Nechako Fisheries Conservation Program progress reports, 1989-1991 [1 cm of textual records] File consists of Nechako Fisheries Conservation Program progress reports. Includes accompanying correspondence regarding the progress reports.

2003.4.4.5.08	Nechako Fisheries Conservation Program draft reports, 1989 [2 cm of textual records] File consists of Nechako Fisheries Conservation Program draft reports. Includes a report by C.J. Perrin entitled "Pilot Fertilization of the Nechako River: A Test of Nutrient Deficiency and Periphyton Response to Nutrient Addition". Also includes a report by Rowland, Abbott and Fretwell entitled "Nechako and Stuart Rivers Chinook Spawner Enumeration: 1988 Data Report". Additionally, includes a report by Rowland entitled "Nechako and Stuart Rivers Chinook Carcass Recovery: 1988 Data Report" and a copy of decision criteria flow charts for the NFCP Early Warning Monitoring Program.
2003.4.4.5.09	"Nechako River Physical Data Summary - 1986, 1987 & 1988", 1990 [3 cm of textual records] File consists of original copies of "Nechako River Physical Data Summary 1986", "Nechako River Physical Data Summary 1987", and "Nechako River Physical Data Summary 1988". Includes accompanying correspondence regarding the reports.
2003.4.4.5.10	"Nechako Fisheries Conservation Program Airphoto Mosaics: Nechako River, Kenney Dam to Vanderhoof", 1990 [2 cm of cartographic records] File consists of original copies of aerophotographical maps entitled "Nechako Fisheries Conservation Program Airphoto Mosaics: Nechako River, Kenney Dam to Vanderhoof".
2003.4.4.5.11	"Nechako and Stuart Rivers Chinook Spawner Enumeration 1990 Data Report", Apr. 1993 [0.5 cm of textual records] File consists of an original copy of the Nechako Fisheries Conservation Program Project Report entitled "Nechako and Stuart Rivers Chinook Spawner Enumeration 1990 Data Report" by R.J. Beniston.
2003.4.4.5.12	"Nechako Fisheries Conservation Program 10 Year Review Background Report", Nov. 1997 [2 cm of textual records] File consists of an original copy of "Nechako Fisheries Conservation Program 10 Year Review Background Report" created for the NFCP 10 Year Review Workshop. Includes accompanying correspondence related to the workshop.
2003.4.4.5.13	"Nechako Fisheries Conservation Program Workshop: The Last 10 Years and the Next 10 Years", 24 Feb. 1998 [2.5 cm of textual records] File consists of an original copy of "Nechako Fisheries Conservation Program Workshop: The Last 10 Years and the Next 10 Years", material for the workshop held by NFCP in Vancouver between February 24-25, 1998. Includes copies of workshop notes.
2003.4.4.5.14	"Nechako Fisheries Conservation Program Workshop: The Last 10 Years and the Next 10 Years - Report on a Workshop held February 24th and 25th, 1998", May-98 [0.5 cm of textual records] File consists of an original copy of "Nechako Fisheries Conservation Program Workshop: The Last 10 Years and the Next 10 Years - Report on a Workshop held February 24th and 25th, 1998". Includes accompanying correspondence regarding the workshop report.

British Columbia Utilities Commission Kemano Completion Public Review Subseries 1992-1997

0.6 m of textual records (2 boxes)

Subseries consists of records relating to Shirvell's participation in the British Columbia Utilities Commission public review of the Kemano Completion Project. Includes Shirvell's notes and submission to the review panel, copies of submissions from other DFO scientists, correspondence relating to the review, copies of exhibits submitted for the review, and BCUC reports.

2003.4.4.6 - File List (Boxes 18-19)

2003.4.4.6.01	"[Brief by] C.S. Shirvell [to] Kemano Completion Project BC Utilities Commission Review Panel", 11 Mar. 1994 [2 cm of textual records] ***RESTRICTED*** File consists of a final draft and original copy of Shirvell's brief to the Kemano Completion Project BC Utilities Commission Review Panel. Final draft includes original photographs. Also includes
	accompanying memoranda and figures for the review panel.
2003.4.4.6.02	"Kemano Completion ProjectNechako River: A Summary Statement", 1994 [1 cm of textual records] File consists of Dr. Don Alderdice's submissions to the British Columbia Utilities Commission Kemano Completion Project Public Review. Includes Alderdice's expert witness testimony "Kemano Completion ProjectNechako River: A Summary Statement". Also includes written evidence filed with the Commission in relation to his expert witness testimony: copies of his CV, his affidavit filed in the court proceedings between Rivers Defense Coalition and Alcan, and a copy of "Assessment of the Influence of Gas Supersaturation on Salmonids in the Nechako River in Relation to Kemano
	Completion".
2003.4.4.6.03	"Brief for Presentation to the B.C. Utilities Commission Review Panel on the Kemano Completion Project", [1994] [0.5 cm of textual records] File consists of a copy of Gordon Hartman's "Brief for Presentation to the B.C. Utilities Commission Review Panel on the Kemano Completion Project", annotated by Shirvell.
2003.4.4.6.04	"The Kemano Completion Project: An Example of Science in Government", Feb. 1994 [0.5 cm of textual records] File consists of Mundie's brief to the B.C. Utilities Commission's Review Panel, "The Kemano Completion Project: An Example of Science in Government".
2003.4.4.6.05	Documents from John Hummel, researcher for the Cheslatta Band, 1992 [2 cm of textual records] ***RESTRICTED*** File consists of photocopied documents from various sources sent to Shirvell from John Hummel, a researcher for the Cheslatta Band. Includes correspondence from Hummel; internal DFO memoranda copied by Alderdice; a 1981 paper by W.G. Hazelwood entitled "Alcan Environmental Baseline Studies: A Critique"; anti-Kemano material written by Dana Wagg and John Hummel, Cheslatta Band researchers; and the "Story of the Surrender of the Cheslatta Reserves on April 21, 1952" by Mike Robertson".

2003.4.4.6.06 Kemano Completion Project documents sent from Cheslatta Band, 1992-1994 [3 cm of textual records]

RESTRICTED

File consists of photocopied documents from various sources sent to Shirvell from John Hummel, a researcher for the Cheslatta Band. Includes copies of internal DFO memoranda; the "Story of the Surrender of the Cheslatta Reserves on April 21, 1952" by Mike Robertson"; anti-Kemano material written by Dana Wagg and John Hummel, Cheslatta Band researchers; a photocopy of correspondence from the Standing Joint Committee for the Scrutiny of Regulations containing "Comment on the Kemano Completion Project Guidelines Order"; a copy of a "Proposal for an Agreement between the Government Commission of the Gitksan Wet'suwet'en People and the Vera Corporation regarding the Nanika River Project: A Plan for Partial Development of the Hydroelectric Power Potential of the Nanika River in Northwestern British Columbia"; copies of newspaper clippings, news releases, and backgrounders; the 1993 "Cheslatta Band Submission to the Standing Committee on Forestry and Fisheries"; and copies of documents received by the Cheslatta Band through Access to Information legislation.

2003.4.4.6.07 British Columbia Utilities Commission Kemano Completion Public Review correspondence and documents, 1993-1994 [3 cm of textual records]

File consists of copies of correspondence and documents that relate to the BCUC public review of the Kemano Completion Project. Includes correspondence to and from BCUC and their legal counsel regarding Shirvell's presence as a witness at the review of the Kemano Completion Project.

2003.4.4.6.08 DFO documents released for BCUC Public Review, [1994] [2 cm of textual records]

File consists of photocopied Department of Fisheries and Oceans documents that released for the British Columbia Utilities Commission Public Review under the Access to Information Act. Includes correspondence, memoranda, and draft reports.

2003.4.4.6.09 BCUC Exhibit #135, Oct. 1993 [1 cm of textual records]

File consists of a copy of Alcan's "Kemano Completion Project Outline", which was presented as Exhibit 135 at the British Columbia Utilities Commission Public Review of the Kemano Completion Project.

2003.4.4.6.10 BCUC Exhibits #201a-351 (incomplete), [1994] [2 cm of textual records]

File consists of copies of Exhibits 201a-351 (incomplete) provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project and a partial index of the BCUC exhibits. Includes: "1991/92 Budget from Ministry of Environment for Nechako Kemano Completion Project Flow Mitigation/Compensation" (ex. #201a); "Document by D.W. Chapman entitled "Nechako River Flow Regime: A Report to the Court", dated January 27, 1987 (ex. #259); "Amended Statement of Defence to Amended Counterclaim in Number C803064: Attorney-General of Canada Vs. Aluminum Company of Canada and Attorney-General of B.C.", dated February 26, 1986 (ex. #280); "Pages 1 and 2 of Memorandum from M. Fretwell to the Department of Fisheries and Oceans, regarding Nechako Court Action - Possible Remedial Measures to Maintain Productivity at Low Flows", dated June 25, 1987 (ex. #291); Article by A.B. Nehring and A.M. Anderson from Rivers magazine entitled "Determination of Population-Limiting Critical Salmonid Habitats in Colorado Streams Using the Physical Habitat Simulation System", dated January 1993 (ex. #301); Article by I. G. Jowett from North American Journal of Fisheries Management magazine entitled "Models of the Abundance of Large Brown Trout in New Zealand Rivers", dated 1992 (ex. #302); "Memorandum from D.L. Deans to A. Bell-Irving, regarding Nechako Settlement Agreement-Tributary Inflows", dated March 29, 1988 (ex. #314); "Submission by J. Kelly", dated April 27, 1994 (ex. #337); Comments by Dr. P.A. Larkin on the Discussion Paper entitled "Toward a Fish Habitat Decision on the Kemano Completion Project", dated April 12, 1984 (ex. #339); and "Letter from T.L. Perry of the Sierra Club of Western Canada to Dr. P.A. Larkin", dated December 7, 1983 (ex. #351).

2003.4.4.6.11 **BCUC** Exhibit #352, 1994 [1.5 cm of textual records]

File consists of a copy of "Curriculum Vitae of Department of Fisheries and Oceans Witnesses on the Nechako River Panel", which was presented as Exhibit 352 at the British Columbia Utilities Commission Public Review of the Kemano Completion Project.

2003.4.4.6.12 BCUC Exhibits #354-355, [1994] [2 cm of textual records]

File consists of copies of exhibits 354 and 355 provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes a January 1987 document by W.T. Stanbury and I. Vertinsky entitled "Notes on the Analysis of Risk in the DFO-Alcan Case" (ex. #354) and a document by the Department of Fisheries and Oceans entitled "Nechako River, B.C.: Flow Requirements for Fish and Fish Habitat", dated February 10, 1986 (ex. #355).

2003.4.4.6.13 BCUC Exhibits #356-376 (incomplete), [1994] [2 cm of textual records]

File consists of copies of exhibits 356-376 (incomplete) provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: graphs entitled "Comparison of the Department of Fisheries and Oceans Base Flow Regime and Alcan Smelters and Chemicals Itd.'s Proposed Flow Regime" (ex. #356); "Letter from D. Morton, President of Alcan Smelters and Chemicals Itd. to The Honourable T. Siddon, regarding Attorney General of Canada Vs. Aluminum Company of Canada Ltd. and the Province of B.C.", dated July 21, 1987 (ex. #362); "Submission Presented by the Department of Fisheries and Oceans to the Comptroller of Water Rights of B.C. Department of Lands at Victoria, B.C.", dated October 31, 1949 (ex. #371); Report by the Department of Fisheries and Oceans entitled "Temperature Changes in the Nechako River and their Effects on the Salmon Populations", dated February 6, 1952 (ex. #373); "Graph of Nechako River Regulated Monthly Flows from 1930 to 1985" (ex. #375); and volume 1 of a document by the Fisheries and Marine Service and the International Pacific Salmon Fisheries Commission entitled "Salmon Studies Associated with the Potential Kemano II Hydroelectric Development", dated February, 1979 (ex. #376).

2003.4.4.6.14 BCUC Exhibits #377-385, [1994] [2 cm of textual records]

File consists of copies of exhibits 377-385 provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: "Letter from J.R. Haig of Department of Justice to D. McK. Brown and D.M.M. Goldie of Russell and DuMoulin, regarding Attorney General of Canada Vs. Aluminum Company of Canada Ltd.", dated August 20, 1980 (ex. #377); "Terms of Reference by Alcan Joint Technical Committee", dated February 9, 1982 (ex. #378); "Memorandum from L.A. Russell to A. Bell-Irving, regarding Summary of Proceedings of a Workshop on Methodologies for Determining Flows for Fish Maintenance", dated May 28, 1982 (ex. #379); document by the Department of Fisheries and Oceans entitled "Toward a Fish Habitat Decision on the Kemano Completion Project: A Discussion Paper", dated January, 1994 (ex. #380a); errata of document by the Department of Fisheries and Oceans entitled "Toward a Fish Habitat Decision on the Kemano Completion Project: A Discussion Paper", dated February, 1994 (ex. #380b); a document by the International Pacific Salmon Fisheries Commission entitled "Potential Effects of the Kemano Completion Project on Fraser River Sockeye and Pink Salmon", dated 1983 (ex. #381); "Memorandum from L. Tousignant and J.C. Davis to K.C.C. Stein of the Department of Fisheries and Oceans, regarding Issues Requiring Corporate Direction", dated October 10, 1984 (ex. #382a); "Memorandum from the Director General of Program Planning to Assistant Deputy Ministers, regarding Summary Notes from [their] Meeting on Kemano with Stein, October 25, 1984", dated November 9, 1984 (#ex. 382b); "Memorandum from A. Bell-Irving and W.J. Schouwenburg to Dr. N.W. Faulkner, regarding Future of the Kemano Task Force", dated November 7, 1984 (ex. #383); "Letter from A. Bell-Irving of Department of Fisheries and Oceans to D.H.G. Abelson of Ministry of Environment, Fish and Wildlife, regarding Fisheries Management Plan- Upper Nechako River", dated March 26, 1985 (ex. #384); and "Letter from C.W. Shinners to W.J. Rich of Aluminum Company of Canada Ltd., regarding 1985 Injunction Flow, Nechako River", dated April 29, 1985 (ex. #385).

2003.4.4.6.15 BCUC Exhibits #386-399 (incomplete), [1994] [2 cm of textual records]

File consists of copies of exhibits 386-399 (incomplete) provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: "Memorandum from G.L. Ennis to Distribution, regarding Nechako River Workshop: Notes from November 14 and 15, 1985", dated December 24, 1985 (ex. #386); "Memorandum from H. Mundie to F. Boyd, regarding Preparation for Nechako River Court Action", dated November 4, 1985 (ex. #387); "Memorandum from F.C. Boyd to G. E. Jones, regarding Nechako Court Case and Technical Meeting Preparations", dated December 10, 1985 (ex. #388); "Memorandum from Chief of Habitat Programs to A. Bell-Irving, regarding Reconstruction of Events Leading to Decision by the Minister of Fisheries and Oceans in February, 1986, on the Alcan Smelters and Chemicals Case (Nechako Flows Issue)", dated March 5, 1987 (ex. #389); "Memorandum from A. Bell-Irving to Distribution, regarding May 29, 1986 Meeting with Provincial Officials for Nechako River Management Plan", dated May 30, 1986 (ex. #390); "List of Expert Reports of the Department of Fisheries and Oceans" (ex. #391a); document entitled "Alcan Project: Studies Initiated by Fisheries Agencies" (ex. #391b); "Expert Report by Dr. J.H. Mundie for the Nechako River Court Action" (ex. #392); "Memorandum from J.H. Mundie to R. Bell-Irving, regarding Nechako River- Expert Witness Statement", dated July 18, 1986 (ex. #393); "Memorandum from H.J. Mundie to R. Bell-Irving, regarding Involvement in the Nechako River Case, dated February 24, 1987 (ex. #394a); "Nechako Court Case Summary of the Attorney General of Canada Vs. Aluminum Company of Canada and Attorney General of B.C." (ex. #397); "Outline of Evidence from the Government of Canada for Phase III: Fisheries", dated March, 1994 (ex. #398); and "Hard Copy of Overheads of the Department of Fisheries and Oceans" (ex. #399).

2003.4.4.6.16 BCUC Exhibits #400-409, [1994] [2 cm of textual records]

File consists of copies of exhibits 400-409 provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: "Notes of M. Healey of Strangway Working Group" (ex. #400); Flow Graph entitled "Framework to Achieve Nechako System Chinook Production Goal" (ex. #401); article by C.M. Tarzwell from American Fisheries Society Journal entitled "Experimental Evidence on the Value of Trout Stream Improvement in Michigan" (ex. #402); article by C.M. Tarzwell from Third North American Wildlife Conference entitled "An Evaluation of the Methods and Results of Stream Improvement in the Southwest" (ex. #403); article by R.I. Hunt from Transactions of the American Fisheries Society entitled "A Long-Term Evaluation of Trout Habitat Development and Its Relation to Improving Management-Related Research", dated May, 1970 (ex. #404); document by R. House of the Bureau of Land Management in Salem, Oregon entitled "Evaluation of Improvement Techniques for Salmonid Spawning" (ex. #405); document by J.P. West entitled "Enhancement of Salmon and Steelhead Spawning and Rearing Conditions in the Scott and Salmon Rivers, California" (ex. #406); document by J.W. Anderson et. al. entitled "Design, Placement and Fish Use of Instream Structures in Southwestern Oregon" (ex. #407); document by T.E. Nickelson et. al. entitled "Effectiveness of Selected Stream Improvement Techniques to Create ","Suitable Summer and Winter Rearing Habitat for Juvenile Coho Salmon in Oregon Coastal Streams dated March 18, 1991 (ex. #408); and a document by W.R. Meehan entitled "Influences of Forest and Rangeland Management on Salmonid Fishes and Their Habitats", dated 1991 (ex. #409).

2003.4.4.6.17 BCUC Exhibit #410, [1994] [1 cm of textual records]

File consists of a copy of "Index of Exhibits for Evidence of D. Deans", which was presented as Exhibit 410 at the British Columbia Utilities Commission Public Review of the Kemano Completion Project.

2003.4.4.6.18 BCUC Exhibits #412-425 (incomplete), [1994] [2 cm of textual records]

File consists of copies of exhibits 412-425 provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: "Hard Copy of Overheads of Dr. M.J. Bradford" (ex. #412); "Additional Hard Copy of Overheads of Dr. M.J. Bradford" (ex. #412a); article by Dr. M.A. Henderson et. al. from Geo Journal magazine entitled "Probable Consequences of Climate Change on Freshwater Production of Adams River Sockeye Salmon", dated 1992 (ex. #414); Document by M.S. Henderson and A.J. Cass entitled "Effect of Smolt Size on Smolt-to-Adult Survival for Chilko Lake Sockeye Salmon", dated May 22 1990 (ex. #415); "Hard Copy of Overheads of I. Williams" (ex. #416); "Notes of Jenkins, regarding Nechako River Working Group" (ex. #417); table entitled "Escapements of Chinook Salmon to the Fraser River, Data from Fairwell et. al. 1987" (ex. #418); "Hard Copy of Overheads of P. Saxvik" (ex. #420); document by P. Saxvik entitled "Fraser River Canyon Fish Passage Summary Report (June 1988) Updated October 1989" (ex. #421); document by P. Saxvik entitled "Temperatures in the Nechako River", dated March, 1994 (ex. #423); "Hard Copy of Overheads of M. Healey" (ex. #424); and a document by S.G. Hinch et. al. entitled "Climate Change and Ocean Energetics of Fraser River Sockeye" (ex. #425).

2003.4.4.6.19 BCUC Exhibits #426-439 (incomplete), [1994] [2 cm of textual records]

File consists of copies of exhibits 426-439 provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: a document by S.G. Hinch et. al. entitled "Potential Effects of Climate Change on Biomass of Adult Fraser River Sockeye Salmon" (ex. #426); "Memorandum from C. D. Levings to M. Fretwell, regarding Nechako Court Action - Possible Remedial Measures to Maintain Productivity at Low Flows", dated July 15, 1987 (ex. #427a); letter from W.J. Rich of Alcan Smelters and Chemicals Ltd. to J.H.C. Walker, dated October 5, 1993, and document by Alcan Smelters and Chemicals Ltd. entitled "Nechako Reservoir Kemano Project: Release to the Cheslatta River Summary Report", dated October, 1992 (ex. #428); table entitled "Pre-spawning Mortality in Nechako River Sockeye 1950 to 1993" (ex. #430); document by P. Gilhousen of the International Pacific Salmon Fisheries Commission entitled "Pre-Spawning Mortalities of Sockeye Salmon in the Fraser River System and Possible Causal Factors", dated 1990 (ex. #431); "Expert Report of I.V. Williams, regarding Water Temperatures in the Nechako River" (ex. 432); "Memorandum from D. Alderdice et. al. of the Department of Fisheries and Oceans to G. Ennis, regarding their Position on Nechako River Flows", dated February 13, 1986 (ex. #433); "Various Expert Witness Reports of the Department of Fisheries and Oceans" (ex. 437a-j); and an article by J. Winton and R. Hilborn from the North American Journal of Fisheries Management entitled "Lessons from Supplementation of Chinook Salmon in B.C.", dated February 1994 (ex. #439).

2003.4.4.6.20 BCUC Exhibit #440, [1994] [3 cm of textual records]

File consists of a copy of a document regarding a "Summary of Salmonid Enhancement Program (SEP)", which was presented as Exhibit 440 at the British Columbia Utilities Commission Public Review of the Kemano Completion Project.

2003.4.4.6.21 BCUC Exhibits #442-464 (incomplete), [1994] [2 cm of textual records]

File consists of copies of exhibits 442-464 (incomplete) provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: a "Memorandum from Assistant Deputy Ministers to Deputy Minister of the Department of Fisheries and Oceans, regarding Funding Requirements Resulting from Alcan Agreement", dated December 15, 1987 (ex. #442); document by L. Jaremovic and D. Rowland of the Department of Fisheries and Oceans entitled "Compilation and Analysis of Nechako River Spawning Escapement and Carcass Recovery Data 1983 to 1986", dated January, 1987 (ex. #443a); article by R.W. Kraft of Alcan Smelters and Chemicals Ltd. entitled "Investigations of the Effect of the Power Development on Fisheries" (ex. #444); "Memorandum from J.P. Tuyttens of the Department of Fisheries and Oceans to T. Taylor, Regional Supervisor of Fisheries, regarding Kenney Dam Closure and Observations Following Same", dated November 10, 1952 (ex. #445); "Memorandum from C. Clarke to R. Bell-Irving of the Department of Fisheries and Oceans, regarding Expert Reports for Nechako Court Action - Temperature Requirements for Juvenile Chinook Salmon, dated May 29, 1986 (ex. #446); "Memorandum from J.G. Stockner and K. Shortreed to S. Samis, regarding Volume 21 - Water Quality", dated September 26, 1984 (ex. #450); document by S.A. McFarlane entitled "Utilization of the Nechako River by Chinook Salmon" by S.A. McFarlane (ex. #452); "Memorandum from P.S. Chamut to P. Asselin, regarding Nechako Steering Committee Meeting", dated January 31, 1990 (ex. #455); "Memorandum from R. Bell-Irving to C.L. Dominy, regarding Minister's Request for Technical Briefing", dated May 27, 1987 (ex. #457); "Document on Salmon Streams by Fishery Officers -Nechako and Stellako Rivers" (ex. #458); "Minutes of Technical Discussions of the Department of Fisheries and Oceans at Yellow Point, Vancouver Island, regarding Nechako River Flows", dated April 23, 1987 (ex. #461); "Memorandum from Director General of the Department of Fisheries and Oceans to P. Asselin, regarding Migratory Bird Sanctuary - Nechako River", dated September 9, 1987 (ex. #462); document by the Department of Fisheries and Oceans entitled "Application of the EARP Guidelines to the Kemano Completion Project" (ex. #463); and "Tapes of the Minimum and Maximum Daily Water Temperatures of the Nechako River at Finmoore and Stuart River Above Nechako River from 1988 to 1993" (ex. #464).

2003.4.4.6.22 BCUC Exhibit #490, [1994] [0.5 cm of textual records]

File consists of "Hard Copies of Overheads by C.S. Shirvell", which were presented as Exhibit 490 at the British Columbia Utilities Commission Public Review of the Kemano Completion Project.

2003.4.4.6.23 BCUC Exhibits #500-531 (incomplete), [1994] [2 cm of textual records]

File consists of copies of exhibits 500-531 (incomplete) provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: a document by T.G. Brown et. al. entitled "Availability of Juvenile Chinook Salmon to Predators Along the Margins of the Nechako and Stuart Rivers, B.C.", dated January 1994 (ex. #500); maps from the Nechako Fisheries Conservation Program entitled "Airphoto Mosaics: Nechako River from Kenney Dam to Vanderhoof" (ex. #520); document by P.A. Slaney entitled "In-Stream Engineering of Fish Habitat Structures in a Large Regulated Central B.C. River" (ex. #521); document by P.A. Slaney et. al. entitled "Debris Structure Placements and Whole-River Fertilization For Salmon ids in a Large Regulated Stream in B.C.", dated 1991 (ex. #522); and a "Submission by H. Brooks" (ex. #531).

2003.4.4.6.24	BCUC Exhibits #537-719 (incomplete), [1994] [2 cm of textual records] File consists of copies of exhibits 537-719 (incomplete) provided for the British Columbia Utilities Commission Public Review of the Kemano Completion Project. Includes: a document by L.R. Russell et. al. entitled "Chinook Salmon Studies in the Nechako River: 1980, 1981, and 1982", dated November, 1983 (ex. #537); "Memorandum from C.S. Shirvell to G. Ennis, regarding Corrections to Notes from Nechako Workshop, November 14, 15", dated November 28, 1985 (ex. #538); "Memorandum from M. Fretwell to D.L. Deans, regarding Nechako River Programs: Stream Fertilization Fish Assessment Proposal", dated May 10, 1988 (ex. #540); "Summary of Evidence from the Nechako Fisheries Conservation Program for Technical Hearing Phase III: Fisheries", dated March, 1994 (ex. #572); and a "Memorandum from the Director General Pacific Region to Mr. Lefebvre, regarding Alcan Trial Proposed Out of Court Settlement", dated March 12, 1987 (ex. #719).
2003.4.4.6.25	"British Columbia Utilities Commission Kemano Completion Project Review - Technical Hearings Phase 3: Final Argument for Alcan", 7 Sept. 1994 [1 cm of textual records] File consists of a copy of "British Columbia Utilities Commission Kemano Completion Project Review - Technical Hearings Phase 3: Final Argument for Alcan"
2003.4.4.6.26	Shirvell's notes regarding the BCUC review of the Kemano Completion Project, [1994] [1 cm of textual records] File consists of Shirvell's handwritten notes regarding the BCUC review of the Kemano Completion Project.
	Shirvell's preparation for questioning during the BCUC hearings, [1994] [4 cm of textual records] File consists of Shirvell's preparation for questioning during the BCUC hearings, which include reference material organized with dividers by subject.
2003.4.4.6.28	BCUC Kemano Completion Project Public Review hearings transcripts, [1994] [1 cm of textual records] File consists of BCUC Kemano Completion Project Public Review hearings transcripts, pages 5191-5266 and 5450-5470. Includes transcription of discussion with Clark, Jenkins, Chapman, Mitchell, and Rublee.
2003.4.4.6.29	Correspondence regarding the BCUC Kemano Completion Project Public Review, 1994-1997 [1 cm of textual records] File consists of correspondence regarding the BCUC Kemano Completion Project Public Review. Includes internal Department of Fisheries and Oceans memoranda, news releases, a schedule for the BCUC technical hearings schedule, agendas, and a copy of "Conceptual Alternatives for a Release Facility at Kenney Dam: An Interim Report of the KDRF Working Group" sent from the T. Buck Suzuki Foundation.
2003.4.4.6.30	"Kemano Completion Project Review: Report and Recommendations to the Lieutenant Governor in Council", Dec. 1994 [2 cm of textual records] File consists of an original copy of the British Columbia Utilities Commission's "Kemano Completion Project Review: Report and Recommendations to the Lieutenant Governor in Council".