

# Karl K. English, M.Sc.

Senior Fisheries Scientist  
Past President, LGL Limited

## Education

1981 M.Sc. (Zoology), University of British Columbia  
1978 B.Sc. (Aquatic Sciences), Cornell University

## Professional Summary

2010- present Past President, LGL Limited  
2005- 2009 President, LGL Limited  
1990-2005 Vice-President, Western Operations, LGL Limited  
1987-present Director of LGL Limited  
1981 Joined LGL Limited

## Professional Experience

Research Project director for a study to develop a lower Fraser River live capture and tagging platform for salmon and assess the in-river migration behaviour and survival of sockeye between Mission and the spawning grounds (2007-09).

Technical advisor for a large-scale mark-recapture study to assess the status of white sturgeon populations in the lower Fraser River (1999-present).

Project director for several large scale radio telemetry studies to assess the migration timing behavior and survival of adult chinook returns to the Nass River (1992-93), steelhead and coho returns to the Skeena River (1994-95), sockeye and chinook migration through the mid-Columbia River (1997), steelhead migrations on the Bella Coola River (1997-98), Fraser River (1996-97) and Columbia River 1999-2002; and Fraser sockeye salmon (2002-present).

Project manager for a 3D acoustic-telemetry study to assess the detailed migration behavior of juvenile steelhead in the forebay of Wanapum Dam, for Grant County Public Utility District (2004-05).

Assisted in the design and implementation of an acoustic biotelemetry study of the movements of sub-mature starry flounder in the Fraser River estuary, for the Fraser River Estuary Management Program (1993-94).

Project manager for radio-telemetry study to determine the survival and behavior of juvenile steelhead migrating downstream passed Wanapum and Priest Rapids dams, for Grant County Public Utility District (1999-2003).

Project director for LGL's portion of juvenile chinook and steelhead radio-telemetry studies to estimate survival rates for the Rocky Reach and Rock Island projects on the Columbia River for Chelan County PUD (1999-2000).

Project director for LGL's portion of juvenile chinook and steelhead radio-telemetry studies to evaluate fish passage at the Rocky Reach and Rock Island dams on the Columbia River for Chelan County PUD (1996-2000).

Responsible for the design and execution of an investigation into the use of instream escapement indexing techniques for three coho streams on Vancouver Island, for DFO (1987-90).

Project analyst for studies assessing the abundance and trends in freshwater fish populations in the Peace River and upper Columbia River (1989-1991). Annual abundance estimates were computed for mountain whitefish, rainbow trout, walleye and arctic grayling using mark-recapture techniques.

Assisted in the design and execution of an experiment to assess the sub-lethal effects of exposure to oil on juvenile pink salmon, for DFO (1989).

Senior scientist for a field study designed to quantify the effects of temperature, salinity and prey abundance on the growth of Arctic cisco and broad whitefish reared in "in situ" enclosures, for Standard Oil (1988).

Assisted in the study design, data analysis and report preparation for a large scale evaluations of international interceptions of sockeye and pink salmon in B.C. and Alaskan coastal waters conducted in 1982-85. Project analyst for 1983-85 tagging study; advised Canadian and Alaskan field coordinator on the optimal allocation of tagging and recovery effort, for DFO. Directed the analysis and summarization of migration route, run timing, stock composition and harvest rate information from the 1982-1984 North Coast Salmon Tagging Projects.

Participated in field studies of fish populations in the Alaskan Beaufort Sea. Analysed data on fish distribution in Mackenzie Delta lakes. Contributed to analytical and field assessments of the impact of a proposed hydroelectric development on the fish resources in the upper Liard River drainage. Liard assessments included detailed analysis of fish habitat data obtained using aquatic system inventory (biophysical stream survey) techniques, for BC Hydro (1981).

Completed Master's thesis is entitled "Growth and Feeding of Juvenile Chinook Salmon, Oncorhynchus tshawytscha, in "in situ" enclosures". Young fish were placed in semi-open enclosures in Saanich Inlet, British Columbia, and their growth and survival was monitored as they fed on natural concentrations of zooplankton. Data from the field study were integrated in a feeding energetics model for fish growth to predict growth rates and functional responses for juvenile salmon (1979-1981).

Compiled and organized relevant information for a paper and simulation model on salmon migration and the spatial and temporal patterns of primary and secondary productivity in the northeast Pacific Ocean (1978).

Advisory Fisheries advisor to Tsawwassen First Nation (1997-present), Kitselas, Kitsumkalum and Metlakatla First Nations (2005-present), Kitsumkalum First Nation (2001-2004) and Komoks First Nation (2008-09) responsible for drafting negotiation strategies, proposals and projects related to fisheries.

Member of the Science and Technical Committee for the Fraser River Sturgeon Conservation Society (2003-2009).

Technical committee member and project director for cooperative Nisga'a - Federal government fisheries and stock assessment studies on the Nass River in northern British Columbia (1991-2003). Responsibilities include the design and implementation of salmon key stream studies, catch and escapement monitoring, test fisheries, habitat assessments and the identification of salmon enhancement opportunities, for the Nisga'a Tribal Council and now Nisga'a Lisims Government.

Member of the Pacific Salmon Endowment Fund Technical Committee responsible for defining the initial program focus and principles, and reviewing watershed specific recovery plans and priority projects (2000-2005).

Reviews

Member of a three person scientific committee tasked with the evaluation of four BC commercial pink and chum salmon fisheries using the certification criteria defined by the Marine Stewardship Council (2009-present).

Member of a three person scientific committee tasked with the evaluation of four BC commercial sockeye fisheries (Fraser, Skeena, Nass and Barkley Sound) using the certification criteria defined by the Marine Stewardship Council (2002-2010).

Technical advisory to the Independent Science Review Panel tasked with a comprehensive review of fisheries management, stocks assessment associated with salmon and steelhead originating from the Skeena Watershed (2008).

Lead member of a scientific review committee tasked with conducting a detailed review of BC's North and Central coast salmon stocks assessment programs (2004-06) for the Pacific Salmon Foundation.

Facilitated the November 2003 workshop to develop recovery plans for three salmon stocks proposed for listing under Canada's Species At Risk Act.

Participated in the 20th Stock Assessment Review Committee workshop, reviewed assessments for haddock, summer flounder, black sea bass, Atlantic mackerel, and sea scallops and provided scientific advice to the Seafarers International Union (1995).

Senior reviewer for all technical issues associated with a Canada-wide evaluation of the Resource Assessment and Related Research conducted by Fisheries and Oceans, Canada. Detailed stock assessment reviews were completed for a wide variety of species, including: caplin, American plaice, Atlantic cod, American lobster, offshore scallops, Atlantic salmon, Gulf of St. Lawrence redfish, Fraser River sockeye salmon and Pacific herring (1993-94).

Senior reviewer responsible for the evaluation of Fisheries Assessment Unit programs on Lake Huron and Lake Superior, for Ontario Ministry of Natural Resources (OMNR).

Lead member of a study team that reviewed the data collection programs and stock assessment techniques used to manage fisheries in Lake Ontario, for OMNR (1987).

Assisted in the preparation of an Arctic marine conservation strategy for Canada. Organized and facilitated a large workshop in Yellowknife, N.W.T. and integrated the contributions of the sixty participants into a draft conservation strategy, for DFO (1986).

Reviewed and evaluated the data and stock assessment techniques used to manage Canadian commercial fisheries on Lake Erie, for OMNR (1986).

Monitoring

Designed and implemented catch monitoring systems for the salmon fisheries on the lower Fraser River conducted by the Tsawwassen First Nation under the fisheries component of their Final Agreement (2009-present).

Project director responsible for the design and execution of a six-year study to quantify First Nation salmon harvests throughout the Canadian portion of the Yukon River basin, for the Council of Yukon First Nations and Fisheries and Oceans Canada (1995-2002).

Senior advisor for the Georgia Strait Creel Survey, Canada's largest marine sport fishery catch statistics program. Ensured that monthly catch statistics are available and accurate within 7 days of the end of the month (1986-1999).

Designed and implemented catch monitoring systems for salmon fisheries on the Nass River conducted by the Nisga'a Tribal Council (1992-1996).

Designed and evaluated methods currently used to provide inseason catch estimates for British Columbia salmon fisheries. Analysed the 1983 north coast salmon tagging data.

Data Access

Compiled and analysed the data required to produce estimates of catch, escapement and exploitation rates for each of the Conservation Units defined for Canada's Pacific salmon species (2008-present).

Directed the compilation of meta data for salmon escapement monitoring and stocks assessment programs conducted in the BC and Yukon region (2005-2007).

Directed the compilation of data required to produce estimates of the annual catch, escapement and run size for BC salmon stocks and harvest data for other marine species for Department of Indian Affairs and Northern Development (2004-06).

Directed the compilation of all stock status data for Canadian west coast fisheries relevant to Native Comprehensive Claims negotiations. The project involved reviews of stock assessments and harvest data for all species of salmon, groundfish and shellfish, for the Department of Fisheries and Oceans and the Department of Indian Affairs and Northern Development (1995-96).

Project director for LGL's component of a project to compile and summarize all data for US and Canadian west coast salmonid stock and fisheries relevant to the ongoing U.S. endangered species assessments, for the Nation Marine Fisheries Service (1995).

Completed a comprehensive assessment of the data and methods required to estimate chinook and coho contribution for Canada's five major hatcheries on the Pacific coast (1987).

Conducted a detailed analysis and evaluation of Robertson Creek Hatchery data. Designed and implemented methods for estimating the contribution of hatchery-produced chinook and coho to west coast fisheries. Assisted in the preparation of a coastwide salmon management plan for stock re-building (1984).

Modeling Organized all available catch, escapement and migration timing data for sockeye salmon within the Fraser watershed for 2002-07 for annual run reconstruction analyses (2009-present).

Design of data bases and run reconstruction model for sockeye stocks migrating through northern BC and southern southeast Alaskan fisheries, (1996-present).

Organized all available catch and escapement data for Chinook salmon within the Fraser watershed for 1982-2007 for annual run reconstruction analyses (2005-08).

Design of data bases and run reconstruction model for sockeye and pink salmon stocks migrating through northern BC and southern southeast Alaskan fisheries, (1993-1995).

Review of the data and relationships that are the basis of a model used to estimate the capacity of the Skeena River to produce steelhead trout, for the BC Government (1992-95).

Senior project analyst for a detailed assessment of the impacts of the 1989 EXXON Valdez oil spill on all Alaskan marine fisheries affected by the spill. The assessment has included the collection and analysis of spawner enumeration and commercial catch and effort data for salmon and herring fisheries in the Prince William Sound, Cook Inlet, Kodiak and Chignik management areas, for the Trans-Alaska Pipeline Liability Fund (1991).

Computed population estimates for the major sport fish species in B.C.'s portion of the Peace River based on extensive mark-recapture data obtained over two years, for BC Hydro (1990-91).

Designed a run reconstruction model to assess the effect of an oil spill on 1987 sockeye harvests in Cook Inlet. Conducted an assessment of the data available for the Nechako River and designed a model to quantify the effect of habitat change on chinook production. Prepared computer models to assist in the evaluation of management alternatives (size limits, bag limits, season closures) for B.C.'s major sport fisheries (1989).

Modified the existing South Coast Stock Management Model to facilitate the evaluation of alternative fishing plans for Fraser River sockeye and pink salmon stocks. Prepared a technical report describing the capabilities of these management models (1989).

Senior analyst responsible for developing a long term management model for British Columbia's major south coast fisheries (including Johnstone Strait, Georgia Strait, Juan de Fuca Strait, and the West Coast of Vancouver Island), for DFO (1988).

Directed the development of troll fishery management models for southern British Columbia. Included the organization and analysis of all recent catch, effort, biosampling and mark-recapture data (CWT) relevant to B.C. hook-and-line fisheries, for DFO.

## Publications

- Donaldson, M.R., S. J. Cooke, D. A. Patterson, S. G. Hinch, D. Robichaud, K. C. Hanson, I. Olsson, G. T. Crossin, K. K. English, and A. P. Farrell. (2009) Limited behavioural thermoregulation by adult upriver-migrating sockeye salmon (*Oncorhynchus nerka*) in the Lower Fraser River, British Columbia. *Canadian Journal of Zoology* 87: 480-490.
- English, K.K., R. E. Bailey, and D. Robichaud. 2007. Assessment of Chinook returns to the Fraser River watershed using run reconstruction techniques, 1982-04. *Canadian Science Advisory Secretariat, Research Document 2007/020*. 76 p.
- L.Hahn, K. English, J. Carolsfeld, L.G.M. da Silva, J.D. Latini, A.A. Agostinho and D.R. Fernandez. 2007. Preliminary study on the application of radio-telemetry techniques to evaluate movements of fish in the Lateral Canal at Itaipu Dam, Brazil. *Neotropical Ichthyology* 5:103-108.
- English K.K., D. Robichaud, C. Sliwinski, R.F. Alexander, W. R. Koski, T. Nelson, B.L. Nass, S.A. Bickford, S. Hammond, and T.R. Mosey. 2006. Comparison of adult steelhead migrations in the mid-Columbia hydrosystem and in large naturally flowing British Columbia Rivers. *Trans. Amer. Fish. Soc.* 135:739-754.
- Cooke, S.J., S.G. Hinch, G.T. Crossin, D.A. Patterson, K.K. English, J. M. Shrimpton, G. Van Der Kraak, and A.P. Farrell. 2006a. Physiology of individual Late-run Fraser River sockeye salmon *Oncorhynchus nerka* sampled in the ocean correlates with fate during spawning migration. *Canadian Journal of Fisheries and Aquatic Sciences* 63: 1469-1480.
- Cooke, S.J., S.G. Hinch, G.T. Crossin, D.A. Patterson, K.K. English, M.C. Healey, J.M. Shrimpton, G. Van Der Kraak and A.P. Farrell. 2006b. Mechanistic basis of individual mortality in Pacific salmon during spawning migrations. *Ecology* 87(6):1575-1586
- Young, J.L, S.G. Hinch, S.J. Cooke, G.T. Crossin, D.A. Patterson, A.P. Farrell, G. Van Der Kraak, A. Lotto, A. Lister, M.C. Healey, and K.K English. 2006. Physiological and energetic correlates of en route mortality for abnormally early migrating adult sockeye salmon in the Thompson River, British Columbia. *Canadian Journal of Fisheries and Aquatic Sciences*. 63: 1469-1480.
- English, K. K., W. R. Koski, C. Sliwinski, A. Blakley, A. Cass, J.C. Woodey. 2005. Migration timing and in-river survival of Late-run Fraser River sockeye using radio-telemetry techniques. *Trans. Amer. Fish. Soc.* 134:1342-1365.
- Wagner, G.N., S.G. Hinch, L.J. Kuchel, A. Lotto, S.R.M. Jones, D.A. Patterson, J.S. Macdonald, G. Van Der Kraak, M. Shrimpton, K.K. English, S. Larsson, S.J. Cooke, M.C. Healey, and A.P. Farrell. 2005. Metabolic rates and swimming performance of adult Fraser River sockeye salmon (*Oncorhynchus nerka*) after a controlled infection with *P. minibicornis*. *Canadian Journal of Fisheries and Aquatic Sciences*. 62: 2124–2133.
- Cooke, S.J., G.T. Crossin, D. Patterson, K.K English, S.G. Hinch, J.L. Young, R. Alexander, M.C. Healey, G. Van Der Kraak, and A.P. Farrell. 2005. Coupling non-invasive physiological assessments with telemetry to understand inter-individual variation in behaviour and survivorship of sockeye salmon: development and validation of a technique. *Journal of Fish Biology*. 67: 1-17.
- English, K.K., W.J. Gazey, D. Peacock and G. Oliver. 2004. Assessment of the Canadian and Alaskan sockeye stocks harvested in the northern boundary fisheries using run reconstruction techniques, 1982-2001. *Pacific Salmon Commission, Tech. Rep. No. 13*.
- English, K.K., G.F. Searing and D.A. Nagtegaal. 2002. Review of the Strait of Georgia recreational creel survey, 1983-1999. *Can. Tech. Rep. Fish. Aquat. Sci.* 2414. 81 p.

- Gazey, W.J. and K.K. English. 2000. Assessment of sockeye and pink salmon stocks in the northern boundary area using run reconstruction techniques, 1982-95. Can. Tech. Rep. Fish. Aquat. Sci. No. 2320. 132 p.
- Link, M.R. and K.K. English. 2000. Long-term, sustainable monitoring of Pacific salmon populations using fishwheels to integrate harvesting, management and research. Pages 667-674 in E.E. Knudsen, C.R. Steward, D.D. McDonald, J.E. Williams, and D.R. Reiser, Sustainable fisheries management: Pacific salmon. Lewis Publishers, Boca, Raton, Florida. 8 p.
- Link, M.R. and K.K. English. 1998. Aboriginal fisheries and a sustainable future: a study from an agreement with the Nisga'a Nation in British Columbia. In: Reinventing Fisheries Management. Edited by T.J. Pitcher, P.J.B. Hart and D. Pauly. Chapman and Hall. 15 p.
- Link, M.R. and K.K. English. 1997. The 1994 fishwheel project on the Nass River, BC. Can. Manuscr. Rep. Fish Aquat. Sci. 2421: 93 p.
- Nass, B.L., K.K. English and H.R. Frith. 1996. Assessment of summer rearing habitat and juvenile coho abundance in the Kwinageese River, B.C., 1992. Can. Manuscr. Rep. Fish. Aquat. Sci. 2375: 56 p.
- Bocking, R.C. and K.K. English. 1996. Nisga'a catch monitoring program, 1993 Nisga'a fishery. Can. Manuscr. Rep. Fish. Aquat. Sci. 2377: 38 p.
- Koski, W.R., R.F. Alexander and K.K. English. 1996. Distribution, timing and numbers of chinook salmon returning to the Nass River watershed in 1993. Can. Manuscr. Rep. Fish. Aquat. Sci. 2371: 143 p.
- Koski, W.R., M.R. Link and K.K. English. 1996. Distribution, timing, fate and numbers of chinook salmon returning to the Nass River watershed in 1992. Can. Tech. Rep. Fish. Aquat. Sci. 2129: 141 p.
- Link, M.R. and K.K. English. 1996. The 1993 fishwheel project on the Nass River and an evaluation of fishwheels as an in-season management and stock assessment tool for the Nass River. Can. Tech. Rep. Fish Aquat. Sci. 2130: 103 p.
- Link, M.R. and K.K. English and R.C. Bocking. 1996. The 1992 fishwheel project on the Nass River and an evaluation of fishwheels as an in-season management and stock assessment tool for the Nass River. Can. Manuscr. Rep. Fish Aquat. Sci. 2372: 82 p.
- Mundy, P.R., K.K.English, W.J. Gazey, and K.E. Tarbox. 1993. Evaluation of the harvest management strategies applied to sockeye salmon populations of Upper Cook Inlet, Alaska, using run reconstruction analysis. In Proceedings of the International Symposium on Management Strategies for Exploited Fish Populations, Alaska Sea Grant College Program, AK-SG-93-02. 33 p.
- English, K.K., R.C. Bocking, and J.R. Irvine. 1992. A robust procedure for estimating salmon escapement based on the area-under-curve method. Can. J. Fish. Aquat. Sci. 49:1982-1989.
- Irvine, J.R., R.C. Bocking, K.K. English, and M. Labelle. 1992. Estimating coho salmon (*Oncorhynchus kisutch*) spawning escapements by conducting aerial surveys in areas selected using stratified random and stratified index sampling designs. Can. J. Fish. Aquat. Sci. 49:1972-1981.

- English, K.K. 1991. Effects of temperature, salinity and prey abundance on the growth of Arctic cisco and broad whitefish feeding on epibenthic prey in field enclosures. American Fisheries Society Symposium 11: 119-131.
- Carolsfeld, J., K.K. English, P. Frank, T.M. Webb. 1990. Abundance, age, size, sex and coded wire tag recoveries for chinook salmon escapements of Kitsumkalum River, 1987-1988. Can. MS Rep. Fish. Aquat. Sci. 2074.
- Bocking, R.C., K.K. English and T.M. Webb. 1990. Abundance, age, size, sex and coded wire tag recoveries for chinook salmon escapements of Campbell and Quinsam River, 1986-88. Can. MS Rep. Fish. Aquat. Sci. 2065, 126 p.
- Shardlow, T.F., K.K. English, T. Hoyt, G.E. Gillespie, and T.A. Calvin. 1989. Strait of Georgia creel survey sport fishery statistics, 1983. Can. MS Rep. Fish. Aquat. Sci. 1872.
- Griffiths, W.B. and K.K. English. 1988. 1980 and 1981 Central Coast Pink Salmon Tagging Program. Can. Manu. Rep. Fish. and Aquat. Sci. No. 1854. 35 p.
- Bocking, R.C., J.R. Irvine, K.K. English, and M. Labelle. 1988. Evaluation of random and indexing sampling designs for estimating coho salmon (*Oncorhynchus kisutch*) escapement to three Vancouver Island streams. Can. Tech. Rep. Fish. Aquat. Sci. No. 1639.
- English, K.K., W.J. Gazey, T.F. Shardlow and M. Labelle. 1987. Development of troll fishery management models for southern British Columbia. Can. Tech. Rep. Fish. Aquat. Sci. No. 1526. 79 p.
- English, K.K., T.F. Shardlow and T.M. Webb. 1986. Assessment of the Strait of Georgia sport fishing statistics, sport fishing regulations and trends in chinook catch using creel survey data. Can. Tech. Rep. Fish. Aquat. Sci. No. 1375. 53 p.
- English, K.K. 1983. Predatory-prey relationships for juvenile chinook salmon, *Oncorhynchus tshawytscha*, feeding on zooplankton in "in situ" enclosures. Can. J. Fish. Aquat. Sci. 40:287-297.

## Project Reports

Primary author of more than 60 reports and contributed to more than 150 other project related reports. A sample of these reports is provided below.

- Devitt, S., K.K. English, D. Schmidt, J. Joseph and C. Chaffee. 2010. The British Columbia Commercial Sockeye Salmon Fisheries – Final Certification Report. Report prepared by Tavel Certification Inc. for the BC Salmon Marketing Council for submission to the Marine Stewardship Council. 204 p. + appendices.
- English, K.K. and S.C. Tyerman. 2010. Monitoring of Radio-tagged Fish at the Dunvegan Hydroelectric Project Site Using Fixed-station Receivers, May-October 2009. Report prepared by LGL Limited for TransAlta Corporation. 11 p.
- Robichaud, D., J.J. Smith, K. K. English and S.C. Tyerman. 2010. Application of fishwheels and radio-telemetry for in-season assessment of salmon returns to the Fraser River, 2009 Report prepared by LGL Limited for the Pacific Salmon Commission, Vancouver. 109 p.
- Blakley, A.C., K.K. English and L. Cassidy. 2010. Tsawwassen First Nation Post-season Fisheries Report, 2009. Report prepared for the Joint Fisheries Committee tasks with

- facilitating the implementation of the fisheries component of the Tsawwassen Final Agreement. 46 p.
- English, K.K., A.C. Blakley, T. Mochizuki and D. Robichaud. 2009 (draft). Coast-wide Review of BC Salmon Indicator Streams and Estimating Escapement, Catch and Run Size for each Salmon Conservation Unit. Report prepared by LGL Limited for Fisheries and Oceans Canada and Ecotrust. 79 p.
- Smith, J.J., Robichaud, D., K. K. English and P. Johnson. 2009. Feasibility of fishwheel use for escapement estimation and results from the salmon radio-tracking on the lower Fraser River in 2008. Report prepared by LGL Limited for the Pacific Salmon Commission, Vancouver. 104 p.
- Mathews, M., A. Blakley and K.K. English. 2009. Kitsumkalum and Metlakatla Domestic Fisheries Catch Monitoring-Treaty Related Measures, Salmon Harvest Report 2008. Report prepared by LGL Limited for Kitsumkalum First Nation, Terrace, BC and Metlakatla First Nation, Prince Rupert, BC. 79 p.
- Robichaud, D., K. K. English and J. J. Smith. 2008. Feasibility of fishwheel use for escapement estimation and results from the salmon radio-tracking on the lower Fraser River in 2007. Report for the Pacific Salmon Commission, Vancouver. 140 p.
- English, K.K., A. Blakley and D. Robichaud. 2007. Assessment of Chinook returns to the Fraser River watershed using run reconstruction techniques: Annual Model Update Handbook and 1982-2007 Results. Prepared by LGL Limited for Fisheries and Oceans, Canada, Nanaimo, B.C. 99 p.
- Robichaud, D. and English, K.K. 2007. River entry timing, survival and migration behaviour of Fraser River sockeye salmon in 2006. Report prepared for Fisheries and Oceans, Canada, Pacific Biological Station, Nanaimo, B.C., August 2007. 113 p.
- Robichaud, D. and English, K. K. 2006. Assessing in-river migration behaviour and survival of Summer-run sockeye salmon caught and released in the Lower Fraser River in 2005. Report prepared for Fisheries and Oceans, Canada, Pacific Biological Station, Nanaimo, B.C. 66 p.
- English, K.K., D. Peacock and B. Spilsted. 2006. North and Central Coast Core Stock Assessment Program for Salmon. Prepared by LGL Limited for Pacific Salmon Foundation and Fisheries and Oceans, Canada. 78 p.
- English, K.K., R. E. Bailey and D. Robichaud. 2006. Assessment of Chinook returns to the Fraser River watershed using run reconstruction techniques, 1982-04. Prepared by LGL Limited for Fisheries and Oceans, Canada, Nanaimo, B.C. 73 p.
- Robichaud, D. and K.K. English. 2006. Assessing in-river migration behaviour and survival of summer-run sockeye salmon caught and released in the lower Fraser River in 2005. Prepared by LGL Limited for Pacific Salmon Commission, Vancouver, BC. 66 p.
- English, K.K. A. Blakley, C. Sliwinski and S. Humble. 2006. Fisheries Resource Manuals: South Coast. Prepared by LGL Limited for Department of Indian Affairs and Northern Development, Vancouver, BC. 59 p. plus appendices.
- English, K.K., M.F. Lapointe, K. Forrest and J. Cave. 2005. Influence of Summer-run sockeye on the river entry timing of Late-run Fraser sockeye: "Stay with the School" Hypothesis. Prepared by LGL Limited for Pacific Salmon Commission, Vancouver, BC. 46 p.

- Nelson, T.C., W.J. Gazey, K.K. English and M.L. Rosenau. 2005. Status of white sturgeon in the lower Fraser River. Prepared by LGL Limited, Sidney, BC for Fraser River Sturgeon Conservation Society, Vancouver, BC.
- Robichaud, D., B.L. Nass, M.A. Timko, K.K. English, and B. Ransom. 2005. Analysis of sockeye and steelhead smolt behaviour at Wanapum Dam using three-dimensional acoustic telemetry, 2004. Prepared by LGL Limited, Sidney, BC for Public Utility District No.2 of Grant County, WA.
- Robichaud, D., B.L. Nass, M.A. Timko, K.K. English, and B. Ransom. 2005. Analysis of smolt behaviour and relative survival at Wanapum Dam using three-dimensional acoustic telemetry, 2004. Report prepared by LGL Limited, Sidney, BC for Public Utility District No.2 of Grant County, WA.
- English, K.K. N. Blakley, T. Mochizuki, C. Sliwinski and A. Blakley. 2004. Fisheries Resource Manuals: North and Central Coast. Prepared for Department of Indian Affairs and Northern Development, Vancouver, BC. 48 p. plus appendices.
- English, K.K., R.F. Alexander, D. Peacock and G. Oliver. 2004. Assessment of the Canadian and Alaskan sockeye stocks harvested in the northern boundary fisheries using run reconstruction techniques, 2002-03. Report prepared by Northern Boundary Technical Committee for the Pacific Salmon Commission. 58 p.
- English, K. K., Sliwinski, C., Labelle, M., Koski, W. R., Alexander, R., Cass, A., Woodey, J. 2004. Migration timing and in-river survival of Late-run Fraser River sockeye using radio-telemetry techniques, 2003. Report for Fisheries and Oceans, Canada, Pacific Biological Station, Nanaimo, BC. 45 p. + appendices.
- English, K. K., Koski, W. R., Sliwinski, C, Blakley, A., Cass, A., Woodey, J. 2003. Migration timing and in-river survival of Late-run Fraser River sockeye using radio-telemetry techniques. Report for Fisheries and Oceans, Canada, Pacific Biological Station, Nanaimo, BC. 45 p. + appendices.
- English, K.K., C. Sliwinski B.L. Nass and J.R. Stevenson. 2003. Assessment of adult steelhead migration through the Mid-Columbia River using radio-telemetry techniques, 2001-2002. Report prepared for Public Utility District No. 1 of Douglas County, Public Utility District No. 1 of Chelan County, and Public Utility District No. 2 of Grant County. 95 p. + appendices.
- Robichaud, D., English, K. K., Skalski, J. R., Nass, B. L., Lady, J., Sliwinski, C., and Blakley, A. 2003. Survival of chinook smolts during various spill configurations at Wanapum and Priest Rapids dams, 2002. Report for Public Utility District No. 2 of Grant County, Ephrata, WA.
- Robichaud, D., English, K. K., Sliwinski, C., Nass, B., Blakley, A., and Grant, C. A. 2002. Telemetric assessment of chinook smolt behavior in relation to various spill methods at Wanapum and Priest Rapids dams, 2002. Report for Public Utility District No. 2 of Grant County, Ephrata, WA.
- English, K. K., Skalski, J. R., Lady, J., Robichaud, D., Nass, B. L., Sliwinski, C., and Blakley, A. 2001. Survival of hatchery chinook smolts assessed at Wanapum and Priest Rapids projects using radio-telemetry techniques, 2001. Draft report for Public Utility District No. 2 of Grant County, Ephrata, WA.

- English, K.K. and M.R. Link. 2001. A pre-assessment of the British Columbia Commercial Salmon Fisheries for certification under Marine Stewardship Council principles and criteria for sustainable fishing. 28 p. + appendices.
- English, K.K., C. Sliwinski B.L. Nass and J.R. Stevenson. 2001. Assessment of adult steelhead migration through the Mid-Columbia River using radio-telemetry techniques, 1999-2000. Report prepared for Public Utility District No. 1 of Douglas County, Public Utility District No. 1 of Chelan County, and Public Utility District No. 2 of Grant County. 112 p. + appendices.
- Nass, B.L., J.J. Smith, C. Sliwinski, J. Ferguson and K.K. English. 2001. Assessment of adult summer chinook passage times at Priest and Wanapum dams on the Columbia River, 2000. Report prepared for Public Utility District No. 2 of Grant County. 39 p. + appendices.
- English, K. K., Skalski, J. R., Lady, J., Koski, W. R., Nass, B. L., and Sliwinski, C. 2000. An assessment of project, pool and dam survival for run-of-river steelhead smolts at Wanapum and Priest Rapids projects using radio-telemetry techniques, 2000. Report for Public Utility District No. 2 of Grant County, Ephrata, WA. 117 p.
- Skalski, J.R., J. Jady, R. Townsend and K.K. English. 2000. Estimates of route-specific passage and survival of run-of-river steelhead smolts at Wanapum and Priest Rapids projects using radio-telemetry techniques, 2000. Report prepared for Public Utility District No. 2 of Grant County. 27 p.
- Smith, J.J, K.K. English, W.R. Koski, B.L. Nass, A. Blakley, C. Sliwinski and C. A. Grant. 2000 (Draft). Evaluation of juvenile steelhead migratory patterns at Wanapum and Priest Rapids projects using radio-telemetry techniques, 2000. Report prepared for Public Utility District No. 2 of Grant County. 60 p.+ appendices.
- English, K.K., C. Sliwinski, J.J. Smith, J.R. Stevenson and T.R. Mosey. 2000. Evaluation of the juvenile spring chinook, steelhead and sockeye migratory patterns at Rocky Reach Dam using radio-telemetry techniques 2000. Report prepared for Public Utility District No. 1 of Chelan County. 81 p. + appendices.
- Nass, B.L., K.K. English, C. Sliwinski and S.A. Bickford. 2000. Assessment of adult chinook passage times at Wells Dam and evaluation of fishway gate alterations, 1998. Report prepared for Public Utility District No. 1 of Douglas County. 31 p. + appendices.
- English, K.K., C. Sliwinski, T.C. Nelson, and J.R. Stevenson. 1999. Assessment of passage facilities for adult spring and summer chinook at Priest and Wanapum dams on the Mid-Columbia River in 1998. Report prepared for Public Utility District No. 2 of Grant County. 38 p. + appendices.
- English, K.K., R.C. Bocking, C. Sliwinski, J.R. Stevenson and T.R. Mosey. 1999. Evaluation of the juvenile spring chinook, steelhead and sockeye migratory patterns at Rocky Reach Dam using radio-telemetry techniques 1999. Report prepared for Public Utility District No. 1 of Chelan County. 77 p. + appendices.
- Alexander, R.F., K.K. English, B.L. Nass and S.A. Bickford. 1998. Distribution, timing and fate of radio-tagged sockeye, chinook and steelhead tracked at or above Wells Dam on the Mid-Columbia River, 1997. Report prepared by LGL Limited for Public Utility District No. 1 of Douglas County. 67 p. + appendices.
- English, K.K., T.C. Nelson, C. Sliwinski, J.R. Stevenson and T.R. Mosey. 1998. Evaluation of the juvenile spring chinook, steelhead and sockeye migratory patterns at Rocky Reach Dam

- using radio-telemetry techniques 1998. Report prepared for Public Utility District No. 1 of Chelan County. 77 p. + appendices.
- English, K.K., R.F. Alexander and T.C. Nelson. 1998. Assessment of the distribution, timing and abundance of adult steelhead returns to the Bella Coola watershed in 1997 and 1998. Report prepared by LGL Limited, Sidney, BC. for the B.C. Ministry of Environment, Lands and Parks, Victoria, BC. 60 p. + appendices.
- Nelson, T.C., R.F. Alexander, K.K. English and R.A. Ptolemy. 1998. Compilation of stock assessment information for Bella Coola River steelhead. Report prepared by LGL Limited, Sidney, BC. for the B.C. Ministry of Environment, Lands and Parks, Victoria, BC. 108 p. + appendices.
- English, K.K., T.C. Nelson, C. Sliwinski and J.R. Stevenson. 1998. Assessment of passage facilities for adult sockeye, chinook, and steelhead at Rock Island Dam and Rocky Reach Dam on the mid-Columbia River in 1997. Report prepared for Public Utility District No. 1 of Chelan County. 58 p. + appendices.
- English, K.K., R.F. Alexander, B.L. Nass and S.A. Bickford. 1998. Assessment of adult sockeye and chinook passage times at Wells Dam and evaluation of fishway gate alterations, 1997. Report prepared for Public Utility District No. 1 of Douglas County. 28 p. + appendices.
- English, K.K., W.B. Griffiths, A.C. Gurak, M.E. Jarvis, and J. McKenzie. 1997. Yukon River drainage basin harvest study, 1996. Report prepared for the Council of Yukon First Nations and Fisheries and Oceans, Canada. 67 p. + appendices.
- Stevenson, J. R., A. E. Giorgi, W. R. Koski, K. K. English, and C. A. Grant. 1997a. Evaluation of juvenile spring chinook and steelhead migratory patterns at Rocky Reach and Rock Island dams using radio telemetry techniques, 1996. Final Report for Chelan County PUD.
- Stevenson, J. R., A. E. Giorgi, W. R. Koski, K. K. English, and J. R. Skalski. 1997b. Evaluation of juvenile spring chinook and steelhead migratory patterns at Rocky Reach and Rock Island Dams using radio telemetry techniques, 1997. Final Report for Chelan County PUD.
- Alexander, R.F. and K.K. English. 1996. Distribution, timing and numbers of early-run chinook salmon returning to the Kitsumkalum River watershed in 1995. Report prepared for the Department of Fisheries and Oceans, Prince Rupert, BC. 46 p. + appendices.
- Alexander, R.F., K.K. English and W.R. Koski. 1996. Distribution, timing and numbers of steelhead returning to the Skeena River watershed in 1995. Report prepared by LGL Limited, Sidney, BC. for the B.C. Ministry of Environment, Lands and Parks, Victoria, BC. 77 p. + appendices.
- Gazey, W.J. and K.K. English. 1996. Assessment of sockeye and pink salmon stocks in the northern boundary area using run reconstruction techniques, 1982-92. Report prepared for Fisheries and Oceans, Canada. 50p. + appendices.
- English, K.K., M.G. Foy, C. R. Steward, J. Big Eagle, and C. Huntington. 1995. Pink salmon catch, escapement and historical abundance data. Available from National Marine Fisheries Service, Seattle, Washington.
- Foy, M.G., K. K. English, C. R. Steward, J. Big Eagle, and C. Huntington. 1995. Marine commercial and sport catch databases with information on salmon and steelhead. Available from National Marine Fisheries Service, Seattle, Washington.

- Koski, W.R., R.F. Alexander and K.K. English. 1995. Distribution, timing and numbers of coho salmon and steelhead returning to the Skeena River watershed in 1994. Report prepared for the B.C. Ministry of Environment, Lands and Parks. 74 p. + appendices.
- Frith, H.R., K.K. English and R.C. Bocking. 1994. Skeena River stock assessment project design. Report for British Columbia Ministry of Environment Lands and Parks, Victoria, B.C.. 39 p.
- Bocking, R.C., K.K. English, D. Peacock and L. Jantz. 1994. Reconstruction of Nisga'a in-river harvests of sockeye and chinook salmon, 1983-1991. Report for the Nisga'a Interim Measures Program.
- Link, M.R., K.K. English and R.C. Bocking. 1993. The 1992 fishwheel project on the Nass River and an evaluation of fishwheels as an in-season management and stock assessment tool for the Nass River. Report for the Nisga'a Interim Measures Program, 62 p.
- Nass, B.N., K.K. English, and R. Frith. 1993. Assessment of summer rearing habitat and juvenile coho (*Oncorhynchus kisutch*) abundance in the Kwinageese River, B.C., 1992. Report for the Nisga'a Interim Measures Program, 45 p.
- English, K.K., W.J. Gazey, and D.W. Chapman. 1991. Assessment of the 1989 Kodiak management area salmon catch had there been a normal fishery without the Exxon Valdez oil spill. Prepared for the Trans-Alaska Pipeline Liability Fund.
- English, K.K., R.C. Bocking, and D.W. Chapman. 1991. Assessment of the 1989 Kodiak management area herring catch had there been a normal fishery without the Exxon Valdez oil spill. Prepared for the Trans-Alaska Pipeline Liability Fund.
- English, K.K., P.B. Roger, and D.W. Chapman. 1991. Assessment of the 1989 Prince William Sound management area salmon catch had there been a normal fishery without the Exxon Valdez oil spill. Prepared for the Trans-Alaska Pipeline Liability Fund.
- English, K.K., K.K. Loftus, W.J. Gazey, L.A. Creig, and D.A. Meisner. 1990. Lake Superior Assessment Review. Prepared for Ontario Ministry of Natural Resources. 66 p.
- Gazey, W.J., K.K. English and K. McGivney. 1989. South Coast Management Model: Third Edition. Prepared for Dept. Fish. and Oceans. 97 p + appendices.
- English, K.K., W.J. Gazey, M.L. Jones and L.A. Creig. 1987. Lake Ontario Assessment Review. Unpublished report prepared for the Ontario Ministry of Natural Resources. 87 p.
- English, K.K., W.J. Gazey, M.Labelle and T.M. Webb. 1987. Assessment of methods used to determine hatchery chinook and coho production. Report for Fisheries and Oceans, Canada. 111 p. + Appendices.
- English, K.K., W.J. Gazey, A.R. Maltby and J.A. Taylor. 1985. Part D. The 1984 North Coast Salmon Tagging Project. In: Gazey, W.J. and D.A. Birdsall (eds.). Design and execution of a stock interception study. Unpubl. Rep. by LGL Limited for Fisheries and Oceans, Canada. 109 p. + Appendices.
- English, K.K., D. Hall and J.A. Taylor. 1985. The North Coast Salmon Tagging Project. Management Information Introductory Volume, Guide to Figures and Tables. 38 p.  
Volume A, 1982 Sockeye Salmon, 105 p.  
Volume B, 1982 Pink Salmon, 111 p.  
Volume C, 1983 Sockeye Salmon, 129 p.  
Volume D, 1984 Pink Salmon, 131 p.

Unpubl. Rep. by LGL Limited for Fisheries and Oceans, Canada.

English, K.K., W.J. Gazey and J.A. Taylor. 1984. Part C. The 1983 North Coast Salmon Tagging Project. In: Gazey, W.J. and D.A. Birdsall (eds.). Design and execution of a stock interception study. Unpubl. Rep. by LGL Limited for Fisheries and Oceans Canada. 115 p.

English, K.K. 1984. The contribution of hatchery-produced chinook and coho to west coast fisheries: Preliminary Analysis. Unpubl. Draft Rep. by LGL Limited for Fisheries and Oceans Canada. 71 p + Appendices.

Searing, G.F. and K.K. English. 1983. A comparative analysis of three natural areas of Canadian significance in Queen Charlotte Sound for their potential as marine national parks. Unpubl. Rep. by LGL Limited for Parks Canada, Ottawa, Canada. 125 p.

English, K.K., T.M. Webb, D.A. Birdsall and M.J. Staley. 1982. Information for management of the Strait of Georgia salmon sport fishery: data analysis, problem analysis and recommendations. Volumes 1 and 2. Unpubl. Rep. by LGL Limited and ESSA Limited for Fisheries and Oceans Canada. 116 p.

Taylor, J., S. McCormack, K.K. English and A.D. Sekerak. 1982. Fisheries and limnological studies in selected lakes in the Mackenzie Delta. 1981. Unpubl. Rep. by LGL Limited for B.C. Hydro. 240 p.