



Lorne Greig

Principal, Environmental Management Team Leader, ESSA Technologies Ltd.
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Post-Secondary Education

M.Sc., Biology (Ecology), York University, Toronto, Ontario, 1974.

B.Sc., Biology, York University, Toronto, Ontario, 1970.

Languages	Speak	Read	Write
English:	Native	Native	Native
Spanish:	Limited	Limited	Limited

Countries Of Work Experience

Canada	United States	Mexico	Czech Republic	Hungary
Argentina	Philippines			

Special Skills / Experience

- Adaptive management
- Decision analysis / decision support
- Environmental policy analysis
- Research synthesis / design
- Meeting / workshop facilitation
- Environmental Conflict resolution
- Writing / editing
- Project management

Professional Experience

2005 - present **Environmental Management Team Leader / Principal** ESSA Technologies Ltd.

1987 - 2005 **Senior Systems Ecologist / Principal** ESSA Technologies Ltd.

1982 - 1987 **Systems Ecologist**, ESSA Environmental and Social Systems Analysts Ltd.

Since joining ESSA in 1983, Mr. Greig has gained extensive experience in the application of Adaptive Environmental Assessment and Management (AEAM), and systems analysis techniques to a wide variety of resource management issues. His project experience includes the design of research and monitoring programs, workshop facilitation and public consultation, strategic planning and policy analysis, environmental assessment, systems modelling and analysis, and the development of computer software tools. Mr. Greig's clients include:

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| ○ Alberta Environment | ○ Kinectrics Incorporated |
| ○ Athabasca Tribal Council | ○ Joint Review Panel – Mackenzie Gas Project |
| ○ Asian Development Bank | ○ Latinoconsult – on behalf of Government of Argentina |
| ○ Canadian Electrical Association | ○ Manitoba Model Forest Inc. |
| ○ Canadian Environmental Assessment Agency | ○ New York State Department of Environmental Conservation |
| ○ Canadian International Development Agency | ○ Ontario Hydro / Ontario Power Generation |
| ○ Connecticut Department of Environmental Protection | ○ Ontario Ministry of Natural Resources |
| ○ Environment Canada | ○ Oregon Department of Forestry |
| ○ Environmental Council of Alberta | ○ Parks Canada |
| ○ Fisheries and Oceans Canada | ○ Statistics Canada |
| ○ Great Lakes Fishery Commission | ○ Thompson, Dorfman, Sweatman Barristers and Solicitors (on behalf of Manitoba Hydro) |
| ○ Government of Northwest Territories | ○ USDA Forest Service |
| ○ Government of Yukon – Placer Mining Secretariat | ○ World Bank |
| ○ Hul'qumi'num Treaty Group | |
| ○ International Joint Commission (Canada – US) | |

Boundary Waters)

Environmental Assessment and Monitoring

- advisor to Argentinean scientific team in assessment of potential effects of proposed pulp mills on Rio Uruguay,
- consultant to Kinectrics Inc. in preparation of environmental review and acquisition of regulatory approval for installation of an algal barrier net at Ontario Power Generation's Pickering nuclear generating station,
- advisor to Athabasca Tribal Council regarding cumulative effects assessment
- advisor to Mackenzie Gas Project – Joint Review Panel on matters related to cumulative effects assessment,
- staff consultant to the Asian Development Bank to develop a discussion paper and draft guidelines for cumulative impact assessment in multilateral development bank operations,
- lead author of a research monograph on the use of alternative future scenarios in cumulative impact assessment for the Canadian Environmental Assessment Agency Research and Development Program,
- critical review of EA for underwater hydroelectric transmission for Hul'qumi'num Treaty Group, BC
- critical review of effects of entrainment and impingement of fish by the Salem Nuclear Generating Station (New Jersey), the Delaware City Refinery (Delaware), and the Millstone Nuclear Generating Station (Connecticut),
- led a project for Indian and Northern Affairs Canada that developed guidance for scoping of cumulative impact assessments in Yukon,
- led a project for Fisheries and Oceans Canada to identify information needs for cumulative effects assessment of potential developments in the Moose River basin,
- led a project for Thompson Dorfman Sweatman Barristers and Solicitors to assess the effects of the Churchill River Diversion and Lake Winnipeg Regulation hydro-electric projects on potable water at five northern Manitoba first nations communities,
- managed a project for Fisheries and Oceans Canada and the Great Lakes Fishery Commission to develop a set of standard departmental procedures for screening the potential environmental impacts of typical lamprey barriers,
- manager of a project to critically review a draft environmental impact statement on the effects of cooling water withdrawal operations of three generating stations on the Hudson River and recommending improvements to the draft statement,
- provided expert witness preparation and support for the Ontario Ministry of Natural Resources= Class Environmental Assessment for Timber Management environmental review hearing,
- developed specific recommendations for an effects monitoring program to monitor the potential impacts of timber management activities in Ontario on fish, moose, and tourism values,
- contributor to a project to assess the potential for integration of various environmental assessment processes applicable to northern Canada,
- assisted with the development of principles and procedures for environmental effects monitoring, and wrote a comprehensive environmental effects monitoring manual for the Canadian federal government,
- consultant to Ontario Hydro in revising their Class Environmental Assessment for Shoreline and Riverbank Modifications, and
- training in screening projects through the use of Calyx7 (environmental screening decision support system) for staff at Instituto Nacional Ecologia, Mexico City, Mexico.

Workshop Facilitation and Systems Modelling

- project leader – development of a model of the Lake Ontario Salmonid fishery (Chinook and Atlantic Salmon) for estimation of the socio-economic cost-benefit of listing the Lake Ontario stock of Atlantic Salmon under SARA,
- project leader – decision analysis of alternatives for mitigating the effects of downstream passage mortality on American eel in the upper St. Lawrence River – Lake Ontario system,
- led a project that developed a series of conceptual models of selected park ecosystems for Parks Canada, and provided advice on the use of such models in selecting indicators of ecological integrity,
- member of the steering committee and lead facilitator for workshop to develop statistically sound study designs for assessing the effectiveness of proposed mitigation strategies in managing development impacts on fisheries habitats (for Fisheries and Oceans Canada via Watershed Science Centre, Trent University),
- member of a facilitation team to define the scope and terms of reference for research proposals to be submitted to the Ecological Restoration Institute, Northern Arizona State University, for research into the restoration of Ponderosa Pine stands in the U.S. southwest,
- facilitated a workshop to develop a research design for assessing the effect of hydrological ramping rates on fish populations (for Fisheries and Oceans Canada),

- served as lead facilitator for a three-day workshop designed to develop a framework for cumulative effects assessment in the Moose River Basin of northeastern Ontario; synthesized, interpreted, and reported on the results from each of the working group sessions,
- facilitated one of three working group sessions at a 3-day Science for Fish Habitat Management workshop to build consensus on the inventory needs of a scientifically sound program for fish habitat management,
- facilitated a workshop for Fisheries and Oceans Canada to develop consensus on a set of standard departmental procedures for the environmental assessment of development impacts on fish habitat,
- developed consensus among government and non-government aquatic scientists on the structure and function of Lake Ontario's fish community, and built a conceptual model to illustrate it,
- manager of a project to assist with the design and implementation of the Fisheries Management Support System (FMSS), a modelling system which integrates current knowledge of fisheries and fisheries management in the Great Lakes region,
- manager of a project to assess the future potential electricity demand in Canada [1988] to 2020, based on scenario analyses of possible social and technological developments,
- manager of a project to develop a simulation model of lamprey and lake trout population dynamics linked to a treatment selection system that covers the full range of lamprey treatment options and sites within the Great Lakes,
- major contributor and manager of a project to develop a model of alewife dynamics in Lake Ontario,
- contributor to developing a model of the dynamics of migratory salmon and the commercial fishery along the south coast of B.C.,
- consultant to Ontario Ministry of Environment in the development of a simulation model of the effects of potential remedial actions for the Bay of Quinte remedial action plan, and
- manager of several projects for Ontario Hydro to develop monitoring strategies based on the development of simulation and conceptual models of the effects of nuclear and hydro-electric generating stations.

Fisheries Resource Management

- reviewed fisheries habitat policy under the Canadian Fisheries Act, and developed a policy discussion paper summarizing the issues relating to achieving a consistent, rational and comprehensive approach to compensation for harmful alteration, disruption or destruction of fish habitat by development projects,
- led a critical review of the mass balance model used by Northeast Nuclear Company to assess the effects of the Millstone Nuclear Power Station on Niantic River Winter flounder,
- facilitated a working group charged with identifying valued ecosystem components (VECs) and energy path linkages for Lake Erie,
- developed a scientifically sound and nationally consistent decision-making framework that can be used to assess the impacts of proposed development projects on fish habitat,
- contributor to a project to analyze the effects of acidic precipitation on fisheries within National Inventory Survey (NIS) lakes,
- contributor to program reviews of fisheries assessment programs in the Great Lakes, and
- facilitated the development of a resource management strategy for the recreational fishery in New Brunswick that included a comprehensive framework for public involvement.

Forestry & Wildlife Resource Management

- led a project to develop a research program for effects of timber management on wildlife,
- analyst and manager of a project for the OMNR to assess the current "state-of-the-art" of habitat supply analysis/modelling and examine the feasibility of HSA/M as an operational tool within the Ministry,
- contributor to a project to develop a model of the effects of root-rots and other forest pests on the growth and survival of north-western U.S. forests,
- contributor to a project to design a major monitoring program to investigate the causes of spruce fir die-back in the eastern U.S. - adapted a statistical model of mixed-wood stand growth and development for use in analysing alternative hypotheses, and
- contributed to a project to develop strategies for the management of Spruce budmoth in plantation forestry in Atlantic Canada.

Strategic Planning, Policy Analysis

- manager of a project for the Great Lakes Fisheries Commission to develop a protocol for the Integrated Management of Sea Lamprey (IMSL),

- consultant to the USDA Forest Service in the development of a charter for a National Forest Health Management Institute,
- consultant to Fisheries and Oceans Canada in development of the Recreational Fisheries Strategy for New Brunswick,
- managed and led a project to initiate review and refinement of the Strategic Plan for Ontario's Fisheries (SPOF),
- consultant to the USDA Forest Service in the development of strategic priorities and a strategic plan for technology development for the management of forest pests, and
- consultant to the Alberta Environment Council in a policy exercise to consider water policy futures.

Social Impacts & Conflict Management

- facilitated conflict resolution for the Parry Sound Public Advisory Committee (PAC) and the Ontario Ministry of Natural Resources,
- contributor to a project for the Ontario Ministry of Natural Resources to assess the effectiveness of timber management guidelines for protection of other resource values – development of a model of the impacts of timber management on tourist operations,
- consultant to Ontario Ministry of Natural Resources in the facilitation of public advisory committees with diverse groups of stakeholders charged with recommending management actions to correct fisheries over-harvests, and
- manager of a project for the Canadian Electrical Association to develop a futures analysis of potential electrical energy demand in Canada to the year 2020 based on scenarios of both technological and social futures.

International Development

- team leader for the National Program component in the Vietnam Provincial Environmental Governance Project
- advisor to World Bank project for Participatory Scenario Development for Costing Climate Change Adaptation – Climate Visioning for Ghana, Mozambique and Bangladesh
- advisor to Argentinean EA team in the assessment of impacts of proposed pulp mills on the Rio Uruguay, a boundary water with Argentina – retained by Latino Consult on behalf of the Government of Argentina
- managed and lead a team of analysts in a project for the Canadian International Development Agency (CIDA) to incorporate environmental assessment procedures in the CIDA project planning cycle,
- managed and lead a team of analysts to conduct initial environmental screening of all CIDA bi-lateral aid projects under development during July - October 1988,
- contributor and workshop leader for the Canadian International Development Agency in training CIDA project officers in techniques of environmental assessment/environmental screening,
- advice to the World Bank regarding the acceptability of an Environmental Assessment of electricity co-generation at a glass manufacturing plant within the Czech Republic,
- advice to the World Bank regarding development of an environmental assessment for experimental conversion of coal fired combined electricity generation and district heating facilities to bio-fuel based generation in Hungary,
- staff consultant to Asian Development Bank to establish guidelines for cumulative impact assessment,
- advisor to the Asian Development Bank on setting the terms of reference for the cumulative effects assessment for the Nam Thuen II hydro-electric development in Lao PDR, and
- contributor to a project to develop an environmental strategy for Peru.

1980 - 1983 Ontario Fisheries Information System (OFIS) Specialist, Fisheries Branch, Ontario Ministry of Natural Resources.

- systems analysis, project management, performance of feasibility studies for a major project to develop data management and information systems to support fisheries management,
- advisor to Great Lakes Fisheries Commission, modelling of lake trout lamprey dynamics,
- contributor to a provincial working group responsible for definition of socio-economic information for management of Ontario's commercial fishery, and
- manager of AEAM modelling project regarding effects of acidic precipitation on fisheries.

1974 - 1980 Unit Biologist, Lake Huron Fisheries Assessment Unit, Owen Sound, Ontario.

- design and supervision of fisheries assessment programs, and
- design and development of computer database management, data communications and analysis software.

Volunteer

- 1999 - 2000 **President**, Richmond Hill Squash Club.
- 1997 - 2000 **Director**, Ecotecture a non-profit foundation dedicated to increasing the awareness of the need and means for sustainable development in urban and rural communities through artistic, architectural and design initiatives.
- 1983 - 2000 **Member**, Variety Club of Ontario, a charitable organization focused on helping children
- planning and management of fund raising events,
 - management of software development to facilitate pledge processing for sponsor-donor and donor events (e.g. Telethon, Bike-a-thon),
 - development of data communications software for direct data transmission to Chiron equipment (for rapid on air display of text and pledge results for Telethon),
 - Optee to Crew (1989 - Variety board of directors),
 - member of working group to implement computer processing for administrative functions (hardware/software selection, implementation planning)

Conference & Workshop Presentations

Refocusing Cumulative Effects Assessment. November 2008. Presented at the International Association for Impact Assessment conference on Assessing and Managing Cumulative Environmental Effects, Calgary, AB.

Cumulative Impact Assessment. 2008. Presentation to Athabasca Tribal Council Workshop on Cumulative Impact Assessment.

Cumulative Impact Assessment and Adaptive Management – Challenges to Cumulative Impacts Assessment in Canada. 2006. Invited paper to Canadian Water Network Annual Conference, Session on Cumulative Impact Assessment and Adaptive Management.

Building on Success Factors: A Capacity Development Model for Environmental Management in Vietnam. May 2006. By Kim Pawley, Mary Ellen MacCallum, John Patterson and Lorne Greig. Presented to the 26th Annual Conference of the International Association for Impact Assessment, Stavanger, Norway.

The Impotence of Cumulative Effects Assessment in Canada: Ailments, and Ideas for Redeployment. April 2004. by Peter N. Duinker and Lorne Greig. Presented to the 24th Annual Conference of the International Association for Impact Assessment, Vancouver, British Columbia, Canada. (subsequently published in Environmental Management.

What is Adaptive Management? March 2004. Keynote address to the annual conference of the Oregon Department of Forestry. Corvallis, Oregon, USA.

Adaptive Management and Monitoring. May 2003. Presented to the Conference on Regional and Strategic Environmental Assessment and Monitoring sponsored by Environment Canada Atlantic Region. Halifax, Nova Scotia, Canada.

Publications and Reports

Books and Refereed Journal Publications

Greig, L., C. Murray, D. Robinson and D. Marmorek. (In preparation) Enabling Adaptive Management.

Murray C., and L.Greig. (In preparation) The Role of Adaptive Management in Environmental Assessment.

Greig, L., and P.N. Duinker. (In preparation) Strengthening Science in Environmental Impact Assessment: Glimmers of Hope in Canada.

Greig, L. (In review). Refocusing Cumulative Effects Assessment.

Duinker, P.N. and L. Greig. 2007. Scenario analysis in environmental impact assessment: improving explorations of the future. *Environmental Impact Assessment Review* 27: 206 – 219.

Duinker, P.N. and L. Greig. 2006. The Impotence of Cumulative Effects Assessment in Canada: Ailments and Ideas for Redeployment. *Environmental Management* 37(2): 153-161.

Jones, M. and L. Greig. 1985. Adaptive Environmental Assessment and Management: A New Approach to Environmental Impact Assessment. Pages 21-42. *In* V.W. MacLaren and J.B. Whitney (eds.). *New Directions in Environmental Impact Assessment in Canada*. Methuen Publications, Toronto, Ontario.

Greig, L.A. 1983. Commodities Submodel. Pages 22-29. *In* D.R. Talhelm and R.L. Johnson (eds.). *The Role of the Great Lakes in Michigan's Economic Future: A Conceptual Framework*. Michigan State Univ., 39 pp.

Goddard, C.I., M.H. Goodwin, and L.A. Greig. 1975. The Use of Artificial Substrates in Sampling Estuarine Benthos. *Trans. Am. Fish. Soc.* 104: 50-52

Kitchell, J.F., M.G. Johnson, C.K. Minns, K.H. Loftus, L.A. Greig, and C.H. Olver. 1975. Percid Habitat: The River Analogy. *J. Fish. Res. Board Can.* 34: 1936-1940

Conference Proceedings and Technical Report Series

Greig L., K. Pawley and P. Duinker. 2004. Alternative Scenarios of Future Development: an Aid to Cumulative Effects Assessment. Research Monograph supported by Canadian Environmental Assessment Agency. Ottawa, ON. 60 pp.

Greig, L. 2003. Adaptive Management and Regional Monitoring. In *Proceedings of a Workshop on Regional EIA and Strategic EIA*. Environment Canada, Atlantic Region. In prep.

Gillespie, G., L. Carl, R. Mackereth, L. Greig, D. Ming, M. Boivin, and T. Allison. 2002. Design Standards for Improving Fish Habitat Management. *Can. MS Rpt. Fish. Aquat. Sci.* 2592: v + 81 pp.

Lester, N.P., K.J. Cornelisse, L. Greig, C.K. Minns and M.L. Jones. 1997. Proceedings of the 1997 Science for Fish Habitat Management Workshop. *Can. MS. Rep. Fish. Aquat. Sci.* 2439: vi+36 pp.

Greig, L.A. and P. Duinker. 1997. Toward a strategy for caribou habitat management in Northwestern Ontario. Final Report of the Northwest Region Caribou Strategy Advisory Panel. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for the Northwest Region Caribou Strategy Advisory Panel and the Ontario Ministry of Natural Resources. 46 pp.

Minns, C.K., J.D. Meisner, J.E. Moore, L.A. Greig, R.G. Randall. 1995. Defensible methods for pre- and post development assessment of fish habitat in the Great lakes: a prototype methodology for headland and offshore structures. *Can. MS Rep. Fish. Aquat. Sci.* No. 2328. xiii + 65 pp.

McNamee, P.J., M.L. Jones, L.A. Greig, T.M. Webb, G. Hertel, and S.J. Zarnoch. 1987. Research Planning for the Spruce-Fir Research Co-operative. Pages 5-18. *In* *Proceedings of the US/FRG Research Symposium: Effects of Atmospheric Pollutants on the Spruce-Fir Forests of the Eastern United States and the Federal Republic of Germany*, October 19-23, 1987. USDA Forest Service Northeastern Forest Experiment Station General Technical Report NE-120. 543 pp.

Casselman, J.D., L.A. Greig, V. Macins, and T. Millard. 1979. Strategic Planning for Ontario Fisheries: Socio-economic Data Requirements for the Management of Ontario's Fisheries - Commercial. Ont. Min. Nat. Resour.

Project Reports

MacGregor, R., J. Casselman, L. Greig, W. A. Allen, L. McDermott, and T. Haxton. 2009. Draft - Recovery Strategy for the American Eel (*Anguilla rostrata*) in Ontario. Ontario Recovery Strategy Series. (prepared for) Ontario Ministry of Natural Resources, Peterborough, Ontario. 69 pp.

Greig, L. 2009. Design of the National Program Component for the Vietnam Provincial Environmental Governance Project. Prepared for Canadian International Development Agency and the Vietnam Ministry of Natural Resources and Environment. 65 pp.

Greig, L. and D. Pickard. 2009. Advice on Supplemental Plankton Studies, Impingement Mortality and Entrainment Characterization Study at the Millstone Nuclear Generating Station. Prepared for Connecticut Department of Environmental Conservation. 3 pp.

Greig, L., M. Fortin, J. Donnan and C.K. Minns. 2009. Feasibility study: Socio-Economic Benefits of Maintaining a Healthy Lake Simcoe Ecosystem to Ensure a Thriving Recreational Fishery. Prepared for Ontario Ministry of Natural Resources, Aurora District. 11 pp (main document), 107 pp. (technical appendices)

Greig, L. 2009. Integrated Oceans Risk Analysis Framework – Workshop Summary. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Oceans Policy and Planning Branch, Ottawa, ON.

L. Greig. 2009. Pathways of Effects to Support Integrated Oceans Management – Workshop Summary. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Oceans Policy and Planning Branch, Ottawa, ON.

Greig, L. 2009. Draft - Developing a risk management framework for the incidental take of migratory birds: Policy Paper # 1 – Regulatory Trigger and Decision-Making Process. Prepared for Canadian Wildlife Service, Environment Canada, Yellowknife, NWT. 17 pp.

Murray, C. and L. Greig. 2009. Advice on the Development of Aquaculture Conservation Objectives. Prepared for Fisheries and Oceans Canada, Aquaculture Management Directorate, Ottawa, Ontario by ESSA Technologies Ltd., Vancouver, BC. 15 pp.

Greig, L. 2009. ESSA review of the Scope of Study (SoS) for the Impingement Mortality and Entrainment Characterization (IMEC) Study, prepared by Dominion Nuclear Connecticut Inc. (DNC) for the Millstone Power Station. Prepared for Connecticut Department of Environmental Protection, Hartford CT. 5 pp.

Greig, L. 2009. Developing Pathways of Effects for Sector Based Management. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Oceans Directorate, Ocean Policy and Planning Branch, Ottawa, ON. 25 pp.

Greig, L. 2009. A Departmental Framework for Risk Assessment – Workshop Summary. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Biotechnology and Aquatic Animal Health, Ecosystem Science Division, [Ottawa, ON], 16 pp + Appendices.

Greig, L. and C. Murray. 2008. Peer Review of Rockfort Quarry Adaptive Management Plan. Prepared by ESSA Technologies Ltd., Richmond Hill, ON, for Caledon Coalition of Concerned Citizens, Terra Cotta, ON. 12 pp.

Greig, L. 2008. Review of Draft Guide to Undertaking Regional Strategic Environmental Assessment in

Alberta. Prepared for Oil Sands Environmental Management Division, Alberta Environment, Edmonton, AB, 5 pp.

Abraham, D., L. Greig, and S. Gesner. 2008. Ecosystem Status and Trends – Great Lakes Chapter. Scoping Workshop Report. Prepared for Ontario Ministry of Natural Resources (Great Lakes Branch, 300 Water St., Peterborough, Ontario, K9J 8M5) in partnership with Nature Conservancy of Canada – Ontario Region, Guelph. Prepared by ESSA Technologies, Richmond Hill, Ontario. 16 pp.

Abraham D., and L. Greig. 2008. Viral Hemorrhagic Septicemia In the Great Lakes Region Management and Science Needs Workshop Proceedings. Prepared for the International Joint Commission, Great Lakes Regional Office, Windsor. Prepared by ESSA Technologies, Richmond Hill, Ontario. 10 pp.

Greig., L. 2008. Interaction between Sea Lamprey Control and Species listed under the Canadian Species at Risk Act. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Policy and Economics, [Sarnia, ON], 10 pp.

Greig, L., D. Marmorek and C. Murray. 2008. Guide for Preparation of Adaptive Management Plans. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Western Arctic Area, Central and Arctic Region, [Yellowknife, NT], 8 pp.

Greig, L. and M. Fortin. 2008. Socio-economic Analysis of a Potential SAR Act Listing for Northern Brook Lamprey: Economic Impact Analysis. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Policy and Economics, [Sarnia, ON], 25 pp.

Greig, L. and M. Fortin. 2008. Socio-economic Analysis of a Potential SAR Act Listing for Silver Lamprey: Economic Impact Analysis. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Policy and Economics, [Sarnia, ON], 25 pp.

Greig, L. and M. Fortin. 2008. Socio-economic Analysis of a Potential SAR Act Listing for Northern Brook Lamprey: Information Review and Précis of Impact Analysis. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Policy and Economics, [Sarnia, ON], 44 pp.

L. Greig and M. Fortin. 2008. Socio-economic Analysis of a Potential SAR Act Listing for Silver Lamprey: Information Review and Précis of Impact Analysis. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Policy and Economics, [Sarnia, ON], 47 pp.

Robinson, D.C.E., Beukema, S.J. and L.A. Greig. 2008. Vegetation models and climate change: workshop results. Prepared by ESSA Technologies Ltd., for Western Wildlands Environmental Threat Assessment Center, USDA Forest Service, Prineville, OR. 50p.

Greig, L. and M. Fortin. 2007. Socio-economic Analysis for Atlantic Salmon (Lake Ontario Population): Economic Impact Analysis. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Policy and Economics, [Sarnia, ON], 30 pp + Appendices.

Greig, L. 2007. Policy Development – Large Scale Habitat Loss: Workshop Brief. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Large Scale Habitat Loss Working Group, National Headquarters [Ottawa, ON], 10 pp.

Beukema, S.J., D.C.E. Robinson, and L.A. Greig. 2007. Forests, Insects & Pathogens and Climate Change: Workshop Report. Prepared for The Western Wildlands Threat Assessment Center, Prineville, Oregon. 26 pp

Fortin, M. and L. Greig. 2007. Socio-economic Analysis of Atlantic Salmon (Lake Ontario Population): Information Review and Précis of Impact Analysis. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Policy and Economics, Sarnia, ON. 33 pp.

Greig, L. 2007. A Socio-economic Framework for Impact Analysis of Potential SARA Listing of Silver Lamprey. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Policy and Economics, Sarnia, ON. 16 pp.

Greig, L. 2007. Pre-COSEWIC Assessment of Silver Lamprey – Workshop Summary. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Canada Centre for Inland Waters, Burlington, ON. 17 pp.

Greig, L. 2007. Using Pathways of Effects to Inform the Management of Large Ocean Management Areas: Feasibility Analysis (Draft). Prepared by ESSA Technologies Ltd., Ottawa, ON for Fisheries and Oceans Canada, Ocean Policy and Planning Branch, Ottawa, ON. 13pp.

Greig, L. 2007. Habitat Management Implementation Plan for American Eel – Workshop Summary (Draft). Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Fisheries and Oceans Canada, Habitat Management and Sustainable Development, Ottawa, ON. 18 pp.

Greig, L. and P.N. Duinker. 2007. Scenarios of Future Developments in Cumulative Effects Assessment: Approaches for the Mackenzie Gas Project. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for the Joint Review Panel for the Mackenzie Gas Project, [Inuvik, NT], 32 pp.

Greig, L. 2007 Peer Review of the Dave Johnson Plant Benefits Valuation Study. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for Kinectrics Inc., Toronto, ON. 3 pp.

Patrick, P. and Lorne Greig. 2007. Proposal for an algal mesh barrier at the Pickering NGS intake structure. Prepared by Kinectrics Inc. Toronto, ON for Ontario Power Generation. 26 pp.

Greig, L. 2006. VITR Application Review: Cumulative Effects. Prepared for the Hul'qumi'num Treaty Group. Prepared by ESSA Technologies Ltd. Vancouver, BC. 8 pp.

Rabinovich, J. and L. Greig. 2006. Review of the Environmental Assessment of the Proposed Botnia Pulp Mill on Rio Uruguay at Fray Bentos, Uruguay. Prepared by Latinoconsult Ingenieros Consultores. Buenos Aires, Argentina. 26 pp.

Marmorek, David R., Lorne Greig, Carol Murray and Donald Robinson. 2006. Enabling Adaptive Forest Management. Prepared for the National Commission on Science for Sustainable Forestry by ESSA Technologies Ltd., Vancouver, B.C. 94 pp.

Greig, L. and D.R. Marmorek. 2006. Yukon Placer Mining Environmental Management Regime – Adaptive Management Framework, Workshop Report. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for the Yukon Placer Secretariat, Whitehorse, Yukon. 18 pp

Greig, L. I.J. Parnell, and D.R. Marmorek. 2006. Developing an Action Plan for American eels in the St. Lawrence River – Lake Ontario Region: Decision Analysis. Prepared by ESSA Technologies Ltd., Richmond Hill, ON, for Hydro Quebec, Fisheries and Oceans Canada, Ontario Ministry of Natural Resources, Ontario Power Generation, and the US Fish & Wildlife Service, on behalf of the Passage and Associated Habitat Subcommittee of the Canadian Eel Working Group. 153 pp.

Greig, L. 2005. Ecological Indicators for Effectiveness Monitoring for Ecological Integrity. Prepared by: ESSA Technologies Ltd. Prepared for Ontario Ministry of Natural Resources. Peterborough Ontario. 18 pp.

Greig, L. 2005. Using Conceptual Ecosystem Modelling to Inform the Selection of Measures for Monitoring the Ecological Integrity of Canada's National Parks. Prepared by ESSA Technologies Ltd., Richmond Hill, ON, for Parks Canada, Gatineau, P.Q. 48 pp.

Greig, L. D. Marmorek, J.D. Meisner, and M. Davis. 2005. Downstream Passage of American eel in the St. Lawrence River: Workshop Report. Prepared by ESSA Technologies Ltd., for the Passage and Associated Habitat Subcommittee of the Canadian Eel Working Group. 48pp.

Greig, L. 2005. Conceptual Framework for Assessing Entrainment Dynamics. Prepared by: ESSA Technologies Ltd.. Prepared for New York Department of Environmental Conservation, Bureau of Habitat. Albany NY. 6pp.

Greig, L. and J.D. Meisner. 2004. Review of the Assessment of Cooling System Alternatives for Bowline Point Units 1 & 2. Draft Report. Prepared by ESSA Technologies Ltd. for Bureau of Habitat, New York State Department of Conservation, Albany NY. 30 pp.

Parnell I.J. and L. Greig. 2004. Review of the Danskammer Alternative Technology Evaluation Model (DATEM). Draft Report. Prepared by ESSA Technologies Ltd. for Bureau of Habitat, New York State Department of Conservation, Albany NY. 30 pp.

Greig, L., D. Abraham and D. Marmorek. 2004. Scope of a Decision Analysis for Management of Lake Erie Walleye and Yellow Perch: Workshop Proceedings. Prepared for the University of Guelph Decision Analysis Adaptive Management Research Project. Guelph, ON. 8 pp.

Greig L. 2003. Cumulative Impact Assessment in Multilateral Development Bank Operations. Prepared for Environmental and Social Safeguard Division, Regional and Sustainable Development Department, Asian Development Bank. Manila. 27 pp.

Greig, L. 2003. Potential and Strategy for Restoration of Atlantic Salmon in Lake Ontario. Prepared for Ontario Ministry of Natural Resources. Peterborough, ON. 20 pp.

L. Greig, R. Everitt and P. Duinker. 2002. Scoping for Cumulative Effects Assessment. Prepared for Department of Indian and Northern Affairs. Whitehorse, YT. 42 pp.

Greig, L., I. Parnell, and J.D. Meisner. 2002. Assistance with the Evaluation of a National Pollutant Discharge Elimination System (NPDES) Permit Application for Dominion Nuclear Connecticut's Millstone Power Station: Review of the Mass-Balance Model Used to Estimate the Number of Niantic River Winter Flounder Larvae Entrained by Millstone Power Station (1984-2001). Prepared by ESSA Technologies Ltd., Toronto, ON. for Bureau of Water Management, Connecticut Department of Environmental Protection, Hartford, CT 62 pp.

ESSA Technologies Ltd. 2002. Assistance with the Evaluation of a National Pollutant Discharge Elimination System (NPDES) Permit Application for Dominion Nuclear Connecticut's Millstone Power Station: Review of the Evaluation of Cooling Water System Alternatives to Reduce Entrainment at Millstone Nuclear Power Station. Prepared for Bureau of Water Management, Connecticut Department of Environmental Protection. 26 pp. + app.

Meisner, J.D. and L.A. Greig. 2001. Review of Report on Impingement and Entrainment at the Cooling Water Intake Structure of the Delaware City Refinery. Prepared by ESSA Technologies Ltd., Richmond Hill, ON, for Division of Fish and Wildlife Delaware Department of Natural Resources and Environmental Control, Dover, DE. 16 pp.

Murray, C., L.A. Greig, and D. Bernard. 2001. Ecological Restoration Institute at Northern Arizona State University Research Directions Workshop. Prepared for Ecological Restoration Institute, Northern Arizona State University, Flagstaff Arizona. 29 pp. + app.

Greig, L.A., D.R. Marmorek, I. Parnell, and R. Deriso. 2000. Review of the Draft Environmental Impact Statement for SPDES Permits for the Bowline Point 1 & 2, Indian Point 2 & 3, and Roseton 1 & 2 Steam Electric Generating Stations. Report to the Parties to the Application. Prepared by ESSA Technologies Ltd., Richmond Hill, ON, for NYSDEC, Albany NY. 41 pp. + companion reports.

Greig, L. A., D. Abraham, C. Daniel and J. D. Meisner. 2000. Informed Decision Making - Science Priorities for Ontario's Living Legacy: Report on a Workshop to identify science and information priorities for enhanced resource management in Ontario. Report to the Living Legacy Trust. Prepared by ESSA Technologies Ltd., Richmond Hill, ON. 15p + app.

Meisner, J. D., D. R. Marmorek, L. Greig, I. Parnell, R. Deriso, T. Webb, M. MacCallum, P. Patrick, C. Howard and K. Rollins. 2000. Review of Portions of New Jersey Pollutant Discharge Elimination System (NJPDDES) Renewal Application for the Public Service Electric & Gas= (PSE&G) Salem Generating Station. Final Report Prepared for New Jersey Department of Environmental Conservation, Trenton, New Jersey. 159p + app.

Kuc, M., L.A. Greig, D.M. Abraham, L. Sully, and G. Christie. 1998. Integrated Management of Sea Lamprey Decision Support Tools: Version 2.0. User=s Guide. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for the Great Lakes Fishery Commission, Ann Arbor, MI.

Greig, L., G.A. Duckworth, R. McCrea, and C. Daniel. 1998. Conceptual Framework and Considerations for Cumulative Effects Assessment in the Moose River Basin: Workshop Report. Moose River Basin Environmental Information Partnership, Ontario Ministry of Natural Resources, South Porcupine, Ontario.

Greig, L.A. 1997. Adaptive Environmental Assessment and Management - Chapter for Natural Channel Systems Report. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for the Credit Valley Conservation Authority, Meadowvale, ON. 18 pp.

Greig, L.A. 1997. Calyx Seminar Instituto Nacional Ecologia de Mexico. Final report. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for World Bank, Washington, D.C. 12 pp.

Abraham, D.M. and L.A. Greig. 1997. Standard Departmental Procedures for Screening the Environmental Effects of Lamprey Barriers. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for the Department of Fisheries and Oceans, Ontario Region and the Great Lakes Fishery Commission, Ann Arbor, Michigan. 94 pp.

Abraham, D.M. and L.A. Greig. 1997. Habitat management operating procedures for the Central and Arctic Region, Department of Fisheries and Oceans. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for the Department of Fisheries and Oceans, Central and Arctic Region Freshwater Institute, Winnipeg, Manitoba.

Greig, L.A. and J.D. Meisner. 1996. Conceptual Model of the Lake Ontario Fish Community: Effects of Management Actions. Prepared by ESSA Technologies Ltd., Richmond Hill, ON for The Great Lakes Fishery Commission, Ann Arbor, MI. 69 pp.

Kuc, M., L.A. Greig, L. Sully and D.M. Abraham. 1996. Integrated Management of Sea Lamprey Support Tools: Version 1.1. User=s Guide. Prepared by ESSA Technologies Ltd. for the Great Lakes Fishery Commission.

Greig, L.A. and L. Sully. 1995. Support for the Northern Flood Agreement Proceedings: Briefing Document. Prepared by ESSA Technologies Ltd. for Thompson Dorfman Sweatman as representatives of Manitoba Hydro. 29 p.

Greig, L.A., D.R. Marmorek, D.M. Meisner, D. Bouillion, I. Parnell, R. Deriso, L. Anderson, J. Tsanis, and R. Peterman. 1994. A critical review of the draft environmental impact statement for the proposed action at the Bowline, Indian Point 2 & 3, and Roseton electric generating plants: in support of SPDES permit renewal: 1994-2003. Prepared by ESSA Technologies Ltd., Richmond Hill, Ont. for New York State Department of Environmental Conservation. Albany, N.Y. 107 pp.

Greig, L.A. and D. Meisner. 1994. Decision framework for the determination and authorization of harmful alteration, disruption or destruction of fish habitat. Prepared by ESSA Technologies Ltd. for the Department of Fisheries and oceans. 24 pp.

Kuc, M., L.A. Greig, J.D. Meisner and L. Sully. 1994. Lamprey Control Selection System: Version 1.0. User=s Guide. Prepared by ESSA Technologies Ltd., Richmond Hill, Ontario, for the Great Lakes Fishery Commission, Ann Arbor, Michigan. 58 pp.

Kurz, W.A., L.A. Greig, and D.P. Bernard. 1994. The National Center of Forest Health Management: Draft 5-year workplan (1995-1999). Prepared by ESSA Technologies Ltd., Vancouver, B.C. for National Center of Forest Health Management, Morgantown, WV. 64 pp.

White, W., P. Janiga, R. Pywell, J. Adams, E. Smith, T. Daniel, W. Kurz, D. Bernard, P. Bunnell, L. Greig, and C. Murray. 1994. Forest health technology 2000: Task Force report. USFS Forest Pest Management, Methods Applications Group, Ft. Collins, CO. 117 pp.

Daniel, C.J., C.H.R. Wedeles, L.A. Greig, and L. Sully. 1993. Manitoba model forest: strategic plan for 1994 - 1997. Final report prepared by ESSA Ltd., Richmond Hill, Ont. for Manitoba Model Forest Inc. 55 pp.

ESSA Environmental and Social Systems Analysts Ltd. 1993. Co-management of Thames River - Lake St. Clair walleye: Workshop discussion summary. Prepared by ESSA Ltd., Richmond Hill, Ontario for Ontario Ministry of Natural Resources. 12 pp.

ESSA Environmental and Social Systems Analysts Ltd. 1993. Decision support system for integrated management of sea lamprey in the Great Lakes: Lamprey control selection system: Design document. Prepared by ESSA Ltd., Richmond Hill, Ontario for The Great Lakes Fishery Commission, Ann Arbor. Michigan. 50 pp.

ESSA Environmental and Social Systems Analysts Ltd. 1993. Stakeholder's workshop September 14-15, 1993: baseline data collection project for the Moose River basin. Prepared by ESSA Ltd., Richmond Hill, Ont. for Ontario Ministry of Natural Resources. 10 pp.

Greig, L. and S. Laxdal. 1993. Report of the Lake of the Woods and Rainy River international fisheries task group. Final report prepared by ESSA Ltd., Richmond Hill, Ont. 55 pp.

Greig, L.A. and W.A. Kurz. 1993. Toward a template for ecosystem management: workshop report. Prepared by ESSA Ltd., Richmond Hill, Ontario for USDA Forest Service, Missoula, Montana. 34 pp.

Kurz, W.A. and L.A. Greig. 1993. Ecosystem management workshop: scoping meeting notes and workshop briefing material. Prepared by ESSA Ltd., Vancouver, B.C. for USDA Forest Service, Missoula, Montana. 14 pp.

Loftus, K.K., L.A. Greig, T.A. Pinfold, and M. Kilfoil. 1993. Comprehensive development strategy for the anadromous and inland recreational fisheries of New Brunswick. Prepared for the Canada-New Brunswick Cooperation Agreement on Recreational Fisheries. Prepared by LGL Ltd. 110 pp.

Rainy Lake International Fisheries Task Group. 1993. Report of the Rainy Lake International Fisheries Task Group. Final report prepared by ESSA Ltd., Richmond Hill, Ont. 46 pp.

Bunnell, P., L.A. Greig, D.P. Bernard. 1992. Strategic priorities for FPM technology development: Steering Committee Workshop, Tucson Arizona, December 3-5, 1991. Prepared by ESSA Ltd., Vancouver, B.C. for Methods Applications Group, Fort Collins, CO., 26 pp. and appendices.

ESSA Environmental and Social Systems Analysts Ltd. 1992. Canadian environmental assessment class screening procedure guide. Prepared by ESSA Ltd., Richmond Hill, Ontario for Federal Environmental Assessment and Review Office (FEARO), Ottawa, 8 pp.

ESSA Environmental and Social Systems Analysts Ltd. 1992. Screening advisory guide. Prepared by ESSA Ltd., Vancouver, B.C. for Federal Environmental Assessment and Review Office (FEARO), Ottawa, 32 pp.

ESSA Environmental and Social Systems Analysts Ltd. 1992. Proposed charter for the U.S. Department of Agriculture Forest Service, National Forest Health Management Institute. Prepared by ESSA Ltd., Richmond Hill, Ont. for USDA, Forest Service, 21 pp.

Greig, L.A. 1992. Lac Seul Advisory Committee: final report and recommendations. Prepared by ESSA Ltd., Richmond Hill, Ontario for Ontario Ministry of Natural Resources, Sioux Lookout District, 90 pp.

Greig, L. and C. Wedeles. 1992. Moose River Basin hypotheses screening workshop: briefing report. Prepared by ESSA Ltd., Richmond Hill, Ont. for Dept. of Fisheries and Oceans, Ontario, 71 pp.

Greig, L., D. Meisner, and G. Christie. 1992. Manual for the management protocol for the implementation of integrated management of sea lamprey in the Great Lakes Basin: version 1.1. Prepared by ESSA Ltd., Richmond Hill, Ontario for The Great Lakes Fishery Commission, Ann Arbor, Michigan.

Greig, L.A., W.A. Kurz, J.K. Pawley. 1992. Towards a strategic plan for technology development to support modelling, integration and remote sensing: report of the 1992 meeting of the MIR Steering Committee. Prepared by ESSA Ltd., Richmond Hill, Ont. for Steering Committee on Modelling, Integrated Systems and Remote Sensing, Methods Applications Group, USDA Forest Service, 23 pp.

Greig, L.A., J.K. Pawley, C.H.R. Wedeles, P. Bunnell, and M.J. Rose. 1992. Hypotheses of effects of development in the Moose River Basin: workshop summary. Prepared by ESSA Ltd., Richmond Hill, ON for Dept. of Fisheries and Oceans, Ontario, 148 pp.

McNamee, P.J. and L.A. Greig. 1992. Briefing document for National Forest Health Management Institute, Charter Development Workshop, Ashville, North Carolina, January 28 - 30, 1992. Prepared by ESSA Ltd., Vancouver, BC for U.S. Forest Service, 10 pp.

Everitt, R.R., S.L. Rautio, and L.A. Greig. 1991. Alberta water policy futures workshop. Prepared by ESSA Ltd., Vancouver, BC for Environment Council of Alberta, 58 pp.

Everitt, R.R., S.L. Rautio, and L.A. Greig. 1991. Alberta water policy futures workshop: issues and feedback report. Prepared by ESSA Ltd., Vancouver, BC for Environment Council of Alberta, 8 pp.

Greig, L.A. 1991. Minnitaki, Abram, Pelican and Botsford Lakes Advisory Committee: findings and recommendations. Prepared for Ministry of Natural Resources, MAPB Committee, 58 pp.

Greig, L., D. Meisner, and M. Rose. 1991. Toward a management protocol for integrated management of sea lamprey (IMSL): report of two development workshops. Prepared by ESSA Ltd., Richmond Hill, Ontario for The Great Lakes Fishery Commission, 42 pp.

Greig, L., P. Bunnell, P. Morrison, and C. Wedeles. 1991. Effects monitoring at the Darlington Nuclear Generating Station: post-operational workshop report. Prepared for Ontario Hydro, Environmental Studies and Assessment Department, 38 pp.

Greig, L., P. Bunnell, P. Morrison, and C. Wedeles. 1991. Post-operational effects monitoring at the Darlington Nuclear Generating Station: workshop report. Prepared for Ontario Hydro, Environmental Studies and Assessment Department, 44 pp.

Greig, L.A., P. Duinker, C.H.R. Wedeles, and P. Higgelke. 1991. Habitat supply analysis and modelling state of the art and feasibility of implementation in Ontario. Prepared for Wildlife Branch, Ontario Ministry of Natural Resources, 81 pp.

Greig, L.A., D. Euler, P.J. McNamee, M.J. Rose, J.D. Meisner, and C.H.R. Wedeles. 1991. An investigation into the effects of timber management on wildlife. Prepared for Ontario Ministry of Natural Resources, 71 pp. and appendices.

Sonntag, N.C., L.A. Greig, J.D. Meisner, and J. Koonce. 1991. Development of a Great Lakes - St. Lawrence ecosystem model. Prepared for the International Joint Commission, 27 pp. and appendices.

ESSA Environmental and Social Systems Analysts Ltd. and W.D. Wilkins & Associates. 1990. Report on the definition and the environmental setting for the class environmental assessment for shoreline and riverbank modifications. Prepared for Ontario Hydro, 49 pp.

Greig, L.A. 1990. Report of a scoping meeting to consider the need for integrated modelling in the NO_x/VOC program. Prepared for the Atmospheric Environmental Service, 14 pp.

Gilron, G.L., L.A. Greig, and C.H.R. Wedeles. 1990. A surveillance plan for the Hamilton Harbour Remedial Action Plan (RAP). Prepared for Hamilton Harbour RAP Technical Writing Team, 73 pp.

Greig, L.A. and G.L. Gilron. 1990. Background report for the Hamilton Harbour Remedial Action Plan (RAP) Surveillance Plan Workshop. Interim report prepared for Hamilton Harbour RAP Team, Ontario Ministry of the Environment, 81 pp.

Greig, L. and D. Meisner. 1990. Background report for the development of a Great Lakes - St. Lawrence ecosystem model. Prepared for The International Joint Commission, 19 pp.

Greig, L.A. and C.H.R. Wedeles. 1990. Screening potential management actions to improve the fisheries of Minnitaki, Abram, Pelican, and Botsford Lakes (MAPB). Report to the MAPB Advisory Committee for Ontario Ministry of Natural Resources, Sioux Lookout District, 32 pp.

Greig, L.A., P.J. McNamee, C.H.R. Wedeles, and M. J. Rose. 1990. Background report for the development of a study plan concerning the impact of timber management on wildlife. Prepared for Ontario Ministry of Natural Resources, 22 pp. and appendices.

Meisner, J.D., W.D. Wilkins, L.A. Greig, and R.R. Everitt. 1990. The definition, environmental setting and planning process for the class environmental assessment for shoreline and riverbank modifications. Prepared for Ontario Hydro, 50 pp.

Bernard, D.P., C.L. Murray, and L.A. Greig. 1989. Biodiversity and the EPA: Report of a Workshop held in Airlie, Virginia, May 3-4, 1989. Report prepared for U.S. Environmental Protection Agency - ERL. 18 pp.

Everitt, R.R., L.A. Greig, C.S. Murray, and P. Duffy. 1989. Workshop Summary Project Screening, Review and Licensing. Prepared for Department of Renewable Resources Government of Northwest Territories. 41 pp.

Greig, L.A. 1989. Ontario Fisheries Information System Overview and Development Plan. Prepared for Ontario Ministry of Natural Resources. 65 pp.

Greig, L.A. and K.J. Heltcher. 1989. Simulation analysis of the aquatic effects of Pickering and Darlington NGS using the Darpick model. Prepared for Ontario Hydro, Environmental Studies and Assessments, 148 pp.

Marmorek, D.P., P. Morrison, D.P. Bernard, and L.A. Greig. 1989. A Preliminary Framework for Determining Critical Loads for Nitrogen. A workshop report prepared for the Office of Environmental Processes and Effects Research, EPA, Washington, D.C.

Greig, L.A., M.L. Jones, T.M. Webb, R.R. Everitt, and L.P. Rattie. 1988. Review of Strategic Planning for Ontario Fisheries: Report of a Workshop to Initiate Discussions for the 1990s. Prepared for Ontario Ministry of Natural Resources, 28 pp. and appendices.

Greig, L.A., B. Kelly, R. Peters, D. Brooks, R. Torrie, B. McInnis, and J. Robinson. 1988. Emerging Technologies Impacting on Electricity Needs to the Year 2020. Prepared for Canadian Electrical Association, 51 pp. and appendices.

Greig, L.A., B. Kelly, R. Peters, D. Brooks, R. Torrie, B. McInnis, and J. Robinson. 1988. Implications of Emerging Technologies on Future Electricity Demand in Canada: A Scenario Analysis to 2020. Background report for a Workshop on Electrical Technologies & Utility Forecasting prepared for Canadian Electrical Association, 30 pp. and appendices.

Jones, M.L., L.P. Rattie, C.H.R. Wedeles, and L.A. Greig. 1988. Environmental Effects of Pesticide Use for Timber Management in Ontario. Prepared for Ontario Ministry of Natural Resources, 157 pp.

Jones, M.L., C.H.R. Wedeles, L.A. Greig, and L.P. Rattie. 1988. The Bay of Quinte remedial action plan: an ecosystem based analysis of remedial options. Prepared by ESSA Ltd., Toronto, Ontario for Ontario Ministry of the Environment, 141 pp. and appendices.

English, K.K., W.J. Gazey, M.L. Jones, and L.A. Greig. 1987. Lake Ontario Assessment Review. Prepared for the Ontario Ministry of Natural Resources, 86 pp. and appendices.

ESSA Environmental and Social Systems Analysts Ltd. 1987. Effects Monitoring for Timber Management Guidelines in Ontario – Executive Report. Prepared for Ontario Ministry of Natural Resources, 16 pp.

Greig, L.A., M.L. Jones, and G.D. Sutherland. 1987. Lake Ontario Alewife Impingement Model. Report prepared for Fish Impingement Technical Committee, 44 pp.

Greig, L.A. and C.H.R. Wedeles. 1987. DARPIK: A Simulation Model of the Aquatic Effects of the Darlington and Pickering NGS. Prepared for Ontario Hydro, 76 pp.

McNamee, P.J., L.A. Greig, and M.L. Jones. 1987. Effects Monitoring Strategies for Timber Management Guidelines in Ontario: Final report of Moose, Fish, and Tourism Technical Meetings -- June 15-16, 1987. Prepared for Ontario Ministry of Natural Resources, 71 pp.

McNamee, P.J., M.L. Jones, L.A. Greig, C.H.R. Wedeles, D.R. Marmorek, and L.P. Rattie. 1987. Effects Monitoring for Timber Management Guidelines in Ontario. Prepared for Ontario Ministry of Natural Resources, 226 pp.

McNamee, P.J., L.P. Rattie, M.L. Jones, L.A. Greig, C.H.R. Wedeles, and D.R. Marmorek. 1987. Background Report to Timber Management Guidelines Effects Monitoring Workshop, April 6-10, 1987. Prepared for the Ministry of Natural Resources, 77 pp.

Webb, T.M., N.C. Sonntag, L.A. Greig, and M.L. Jones. 1987. Lower Granite Reservoir In-Water Disposal Test: Proposed Monitoring Program. Prepared for U.S. Army Corps of Engineers, 126 pp. and appendices.

Adaptive Environmental Assessments, Inc. 1986. Spruce-Fir Research Cooperative Research Planning Project: Executive Report. Prepared for U.S. Forest Service, 11 pp.

Bunnell, P., L.A. Greig, and J.S. Carley. 1986. Design Options for a National Residuals Simulation System (NRSS). Prepared for Statistics Canada and Environmental Protection Service, 97 pp.

English, K.K., W.J. Gazey, C.J. Walters, D.J. Hallett, M. McLaren, and L.A. Greig. 1986. Lake Erie assessment review. Prepared for Ontario Ministry of Natural Resources. 76 pp. and appendices.

Greig, L.A., R.R. Everitt, P.J. McNamee, M.L. Jones, and D.S. Slocombe. 1986. Environmental screening for planning stage development aid projects. Status report prepared for Canadian International Development Agency. 140 pp.

Greig, L.A., R.R. Everitt, P.J. McNamee, M.L. Jones, D.S. Slocombe, and L.P. Rattie. 1986. Environmental Screening for CIDA Bilateral Development Projects. Phase I - Prepared for Canadian International Development Agency, 50 pp.

Greig, L.A., R.R. Everitt, P.J. McNamee, M.L. Jones, D.S. Slocombe, and L.P. Rattie. 1986. Environmental Screening for CIDA Bilateral Development Projects. Phase 1 - Appendix report prepared for Canadian International Development Agency, 136 pp.

Greig, L.A., M.L. Jones, P.J. McNamee, R. Serafin, and G.L. Cunningham. 1986. Environmental Effects and Monitoring Options for the Pickering Nuclear Generating Station B. Prepared for Ontario Hydro, 184 pp.

Greig, L.A., L.P. Rattie, R.R. Everitt, and M.L. Jones. 1986. Potential Environmental Effects of the Proposed Mattagami Hydroelectric Extension Project. Prepared for Ontario Hydro, 61 pp.

Greig, L.A., L.P. Rattie, R.R. Everitt, and P.J. McNamee. 1986. Potential Environmental Effects and Study Recommendations for the Little Jackfish River Generating Station. Prepared for Ontario Hydro, 109 pp.

MacPherson, J. et al. 1986. Environmental management for development. Prepared for the Canadian International Development Agency (CIDA), 82 pp.

McNamee, P.J., M.L. Jones, L.A. Greig, and T.M. Webb. 1986. Spruce-Fir Model Transfer Guide. Prepared for Northeast Forest Experiment Station, U.S. Forest Service.

McNamee, P.J., M.L. Jones, L.A. Greig, T.M. Webb, and L.P. Rattie. 1986. Spruce-Fir Research Cooperative Research Planning Project. Prepared for U.S. Forest Services, 208 pp.

Rattie, L.P., P.J. McNamee, and L.A. Greig. 1986. Background Document to the Bruce Nuclear Power Development Environmental Studies Workshops August 25-28, 1986. Prepared for Ontario Hydro, 56 pp.

Rattie, L.P., P.J. McNamee, L.A. Greig, and C.H.R. Wedeles. 1986. Report of a Project to Develop Post-Operational Monitoring Recommendations for the Bruce B Nuclear Generating Station. Prepared for Ontario Hydro, 158 pp.

Sonntag, N.C., L.A. Greig, M.L. Jones, P.J. McNamee, G. Baskerville, and P. Duinker. 1986. Pest Management in Plantations (PMIP): A Consultative Approach. Prepared for PMIP Steering Committee, 61 pp.

Sonntag, N.C., L.A. Greig, M.L. Jones, P.J. McNamee, G. Baskerville, and P. Duinker. 1986. Pest Management in Plantations (PMIP): A Consultative Approach – Summary Report. Prepared for PMIP Steering Committee, 30 pp.

ESSA Environmental and Social Systems Analysts Ltd. 1985. Community Synthesis Planning: Report of a Scoping Meeting, March 18-19, 1985 to establish a planning framework for a synthesis workshop for the Lake Trout - Lake Whitefish - Smallmouth Bass community type. Prepared for Ontario Ministry of Natural Resources, 22 pp.

Greig, L.A., L.P. Rattie, R.R. Everitt, and P.J. McNamee. 1985. Draft Report of a Workshop to Consider the Environmental Effects and Field Study Options for the Little Jackfish River Hydroelectric Development Project. Prepared for Ontario Hydro, 106 pp.

McNamee, P.J., L.A. Greig, M.L. Jones, and T.M. Webb. 1985. Report of the First Spruce-Fir Research Planning Workshop. Prepared for U.S. Forest Service, 65 pp.

McNamee, P.J., L.P. Rattie, N.C. Sonntag, L.A. Greig, and M.L. Jones. 1985. Review of Historical Experience with Pest Management in Plantations. Prepared for PMIP Steering Committee, 36 pp.

McNamee, P.J., T.M. Webb, L.A. Greig, and R.R. Everitt. 1985. Final Report of a Project to Construct a Prototype Root Disease Model for Silvicultural Planning in the Western United States. Prepared for U.S. Forest Service, 104 pp.

Sonntag, N.C., P.J. McNamee, L.A. Greig, and M.L. Jones. 1985. Summary Report: First Workshop on Pest Management in Plantations (PMIP). Prepared for Environment Canada, 128 pp.

Sonntag, N.C., P.J. McNamee, M.L. Jones, and L.A. Greig. 1985. Pest Management in Plantations (PMIP): Report on the Spruce Budmoth Modelling Workshop. Prepared for Environment Canada, 129 pp.

Greig, L.A., G.L. Cunningham, R.R. Everitt, and M.L. Jones. 1984. Environmental Effects and Monitoring Options for the Darlington Nuclear Generating Station. Prepared for Ontario Hydro, 140 pp.

Greig, L.A., G.L. Cunningham, M.L. Jones, and R.R. Everitt. 1984. Post-operational Environmental Monitoring at the Atikokan Thermal Generating Station. Prepared for Ontario Hydro, 88 pp.

Greig, L.A., M.L. Jones, and C.K. Minns. 1984. The Potential for the Rehabilitation of Hamilton Harbour: Results of a Meeting to Examine the Scope and Information Needs. Prepared for Fisheries and Oceans Canada. 46 pp.

Marmorek, D.R., G.L. Cunningham, L.A. Greig, and M.L. Jones. 1984. Mercury Release in Hydroelectric Reservoirs: Report on a Workshop Held April 9-11, 1984. Prepared for Canadian Electrical Association, 60 pp.

Marmorek, D.R., P.J. McNamee, T.M. Webb, L.A. Greig, and N.C. Sonntag. 1984. Ecological Interactions in the Riparian Zone: A Systems Analysis, Simulation Model and Research Review for the Saval Ranch Research and Evaluation Project. Prepared for U.S. Bureau of Land Management, 138 pp.

Jones, M.L., L.A. Greig, and D.R. Marmorek. 1983. Methods and Results of an Analysis of Chemical and Biological Data Collected by the National Inventory Survey Program. Prepared for Canadian Department of Fisheries and Oceans, 257 pp.

Koonce, J.F., L.A. Greig, B.A. Henderson, D.B. Jester, C.K. Minns, and G.R. Spangler. 1982. A Review of the Adaptive Management Workshop Addressing Salmonid/Lamprey Management in the Great Lakes. Prepared for Great Lakes Fish. Comm.