# B.Sc. Theses in Environmental Science

## 1996 - Present

For thesis locations in the Maritime provinces, see [map](#).

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<tr>
<th>No.</th>
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<tr>
<td>E1</td>
<td>1996</td>
<td>Heath, Jeremy J.</td>
<td>Steps toward developing a pheromone-based monitoring/control program for the Apple Leaf Midge, Dasineura mali Kieffer (Diptera: Cecidomyiidae) in Nova Scotia, Canada</td>
<td>R. Smith, O. Kukal</td>
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<td>E3</td>
<td>1997</td>
<td>Potter, Karen M.</td>
<td>Beetle Communities in Managed Softwood Forests</td>
<td>S. Bondrup-Nielsen</td>
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<td>E4</td>
<td>1998</td>
<td>Allen, Michael E. W.</td>
<td>A Survey of Biological Oxygen Demand and Dissolved Oxygen in the Cornwallis River, King's County, Nova Scotia</td>
<td>M. Brylinsky</td>
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<td>E5</td>
<td>1998</td>
<td>Levy, Alex L.</td>
<td>A Short Term Watershed Analysis of Fishwick Brook in Berwick, Nova Scotia, During a Drought</td>
<td>I. Spooner</td>
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<td>E6</td>
<td>1998</td>
<td>Nelson, Alanna M.</td>
<td>A Survey of Fecal Coliform Levels and Related Water Quality Parameters in the Cornwallis River, Kings County,</td>
<td>M. Brylinsky</td>
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</table>
E7  1998  Richards, Ngaio L.  Layperson's Environmental Impact Assessment Design Considerations and Proposition for and EIA Addressing Coastal Erosion in Kings County

E8  1999  Dollimont, Justin  Preliminary baseline data and analysis for the creation of a monitoring plan at the Morton Centre, Heckman's Island, Nova Scotia

E9  1999  Levy, Heather  Sustainable communities, Holistic systems: review and recommendations regarding the policies, practices and future goals for Wolfville and Windsor, Nova Scotia

E10  1999  MacLeod, D. Matthew  A study of sediment redistribution and transport processes in a shallow hydroelectric reservoir

E11  1999  Marshall, Andrea  A Quantitative Examination of the Structure and Species Composition of the Pine Barren Plant Assemblage in the Annapolis Valley of Nova Scotia

E12  1999  Morse, Peter  An examination of the hydrological, geophysical, geological and geochemical properties of aquifers at the Morton Centre for environmental study, Lunenburg, NS
E13 1999  Wyer, Sarah  A fungal air quality investigation of Huggins Science Hall and the direct effect of *P. echinulatum* spores on the A549 lung epithelial cell line

E14 2000  Cook, Shannon Brooke  An assessment of in-stream restorative structures on tertiary streams in the Annapolis Valley, Nova Scotia

E15 2000  Kindred, Kerry  Environmental education: curriculum development for a first year environmental science course

E16 2000  Miranda, Molly  The development of a solid waste-resource management strategy for the office of accommodations and meal plans at Acadia University

E17 2000  Brown, Jenny  An assessment of the educational needs for office and classroom recycling at Acadia University

E18 2001  Baltzer, Kelly  The Pacific decadal oscillation and its effects on the climate in northwestern British Columbia and southeastern Alaska

E19 2001  Barker (Smith), Melanie  The characterization of debris flow landslides and the development of a geographic information system environmental hazards prediction model for Cheticamp River Valley, Cape Breton,
<p>| E20 | 2001 | Gibbons, Zabrina | The effect of the <em>Neodiprion abietis</em> nuclear polyhedrosis virus (NeabNPV) on non-target invertebrates | C. Lucarotti M. Snyder |
| E22 | 2001 | Moody, Robynn Rebecca | Self-organization and environmental management: the potential for Parks Canada | S. Bondrup-Nielsen |
| E23 | 2001 | Seward, Kerri | An investigation of selection cutting as a viable alternative to clear-cutting practices in Nova Scotia's spruce and fir forests | S. Bondrup-Nielsen |
| E24 | 2001 | Smith, Ryan | The effects of globalization on the ecological integrity of protected areas: Canada's national park system as a study focus | T. Herman |
| E25 | 2001 | Spring, Andrew James | Quantifying greenhouse gas emissions from various methods of organic waste disposal | P. Arnold |
| E26 | 2002 | Moore, Adrienne | The use of alien species invasion as an indicator of human disturbance in a terrestrial ecosystem | T. Herman |
| E27 | 2002 | Pesklevits, Anthony | A universe more alive: the challenge and promise of a paradigm shift in science from an experimental, intellectual, and social perspective | S. Bondrup-Nielsen |</p>
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<td>E28</td>
<td>2002</td>
<td>Smith, Leah</td>
<td>A survey of fecal colloform levels and local management ability in the Cornwallis River, Nova Scotia</td>
<td>G. Daborn</td>
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<td>Snyder, Susan</td>
<td>Winter physical and chemical conditions in the Halfway River, Hants and Kings Counties, Nova Scotia</td>
<td>G. Daborn</td>
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<td>E31</td>
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<td>Brown, Christine</td>
<td>Sediment mobility and sand bar dynamics in the Shubenacadie River, Nova Scotia</td>
<td>C. Stanley</td>
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<td>E32</td>
<td>2003</td>
<td>Greene, Chris</td>
<td>Strategic environmental assessment, a tool of sustainable development: The Morton Centre Model</td>
<td>L. Lusby</td>
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<td>E33</td>
<td>2003</td>
<td>Martin, Kathleen</td>
<td>Physical evolution of Canoran Lake, Nova Scotia: Focus on lake sediment dynamics</td>
<td>I. Spooner, P. Williams</td>
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<td>E34</td>
<td>2004</td>
<td>Beck-Oliver, Adrian</td>
<td>Renewable energy framework and feasibility study for the Morton Centre</td>
<td>R. Segado</td>
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<td>E35</td>
<td>2004</td>
<td>Belliveau, Karissa D.</td>
<td>The sensitivity of shallow marine environments to physical and meteorological changes associated with climate change</td>
<td>I. Spooner, L. Lusby</td>
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<td>E36</td>
<td>2004</td>
<td>Beveridge, Megan S.</td>
<td>Effects of heavy metal treatment on Salix eriocephala, as determined by brightfield fluorescence and</td>
<td>R. Evans</td>
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EDS microscopy, with implications for phytoremediation

MacPherson, Sandi

Heavy element uptake and translocation by Salix: potential as a phytoremediation agent

C. Stanley

Patrick, Molly

Forest monitoring at the Morton Centre: introduction of on-site weather station and recommendations of important indicator variables

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Pindham, Nina

A baseline water quality survey of the Canard, Habitant and Pereau rivers of Kings County, Nova Scotia

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Vidito, Lyndsay M.

Scientists under pressure: does affiliation influence conclusions? A Chernobyl case study

L. Lusby

Beveridge, Julia C.E.

Survey of plankton composition and abundance around the Scotian Shelf as a preliminary step in the establishment of marine protected areas

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Food for thought: science communication and the public understanding of science: a case study

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Martin, Bryan G.

A record of Holocene environmental change from the Pleasant River Fen Complex, southwest Nova Scotia

I. Spooner

Mudge, Joseph F.

The roles of white-tailed deer (Odocoileus)

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<tr>
<td>E45</td>
<td>2005</td>
<td>Schaefer, Rebecca M.</td>
<td>Gold and arsenic uptake in <em>Eucalyptus Salmonophloia</em></td>
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<td>E46</td>
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<td>Norton, Gail</td>
<td>Environmental and immunological aspects of the malaria burden: the effects of climate change on <em>Plasmodium</em> species and intracellular fate of <em>Plasmodium falciparum</em>-infected <em>Erythrocytes</em> internalised by macrophages.</td>
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<td>Batley, Meredith</td>
<td>The use of a university field station to develop collaborative research partnerships with local communities.</td>
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<td>E48</td>
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<td>Champion, Caitlin</td>
<td>Collaborative research in Nunavut: are we effectively integrating Inuit Qaujimajatuqangit and western science.</td>
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<td>E49</td>
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<td>Masters, Megan</td>
<td>Relationships between abundance and diversity of juvenile fish, and environmental quality and food resources in coastal bays of Nova Scotia.</td>
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<td>E50</td>
<td>2007</td>
<td>Rivers, Andrea</td>
<td>Environmental services in the Brazilian Amazon:</td>
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<td>Samolczyk, Mary</td>
<td>Arsenic, uranium and other key constituents in water from drilled wells: a study of local geochemistry and its effects on the residents of Grand Pre, Nova Scotia</td>
<td>I. Spooner</td>
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<td>2007</td>
<td>Smith, Tyler B.</td>
<td>A compilation and interpretation of baseline water chemistry and quality, and benthic invertebrate taxa data from the Kesagami River and comparison to a similar northern boreal river system</td>
<td>I. Spooner</td>
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<td>2008</td>
<td>Almack, Kaitlin</td>
<td>Biodiversity assessment of agricultural riparian areas of the upper Cornwallis River and tributaries</td>
<td>S. Bondrup-Nielsen</td>
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<td>Dugas, Katherine</td>
<td>The effect of ground litter in hayfields on Carabid beetle captures.</td>
<td>S. Bondrup-Nielsen</td>
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<td>2008</td>
<td>Vost, Emma</td>
<td>Nova Scotia's American marten: a study in the development and application of population survey techniques</td>
<td>S. Bondrup-Nielsen</td>
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<td>2009</td>
<td>Haverstock, Sarah</td>
<td>Quantifying the photo-oxidation of dissolved organic carbon by ultraviolet radiation in freshwater lakes: development of a</td>
<td>N. O'Driscoll</td>
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<td>McIntyre, Claire</td>
<td>Ecosystem services in the Wolfville Watershed Nature Preserve: linking human well-being to nature in support of conservation</td>
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<td>Fisheries management under the sustainability paradigm: the role of science</td>
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<td>Development of a controlled analysis method for quantifying the relative mercury photo-volatilization potential for soils</td>
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<td>Beveridge, Emily</td>
<td>Resource use and freedom of the commons: why a liberal arts education in ecological literacy is fundamental to the human prospect (<a href="#">pdf available</a>)</td>
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<td>Buckland-Nicks, Amy</td>
<td>Mercury bioaccumulation in dragonflies (<a href="#">Odonata: Anisoptera</a>) from Two Lakes in Kejimkujik National Park, Nova Scotia (<a href="#">pdf available</a>)</td>
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<td>E67</td>
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<td>Pick, Jennie</td>
<td>Assessing an ecosystem services approach to agricultural land management in Greenwich, Kings County, NS: connecting human well-being and the land (<a href="#">pdf available</a>)</td>
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<td>E68</td>
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<td>The effects of water level fluctuations and sediment resuspension on water quality at Tupper Lake, Nova Scotia (<a href="#">pdf available</a>)</td>
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<td>Dunnington, Dewey</td>
<td>Using paleolimnological methods to track late Holocene environmental change at Long Lake, New Brunswick - Nova Scotia border region, Canada (<a href="#">pdf available</a>)</td>
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<td>Healey, Allison</td>
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<td>E71</td>
<td>2012</td>
<td><strong>Morrison, Kaycee</strong> Bottom substrate and A. Redden associated epibenthic biota of the FORCE Tidal Energy Test Site in Minas Passage, Bay of Fundy (<a href="#">pdf available</a>)</td>
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<td>E72</td>
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<td><strong>Sweet, Sarah</strong> Shade intolerance in E. Reekie plants and response to elevated carbon dioxide (<a href="#">pdf available</a>)</td>
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<td>E73</td>
<td>2012</td>
<td><strong>Walker, Emily</strong> The effect of fungal E. Reekie endophyte inoculation on physiological responses to drought in white spruce (<a href="#">pdf available</a>)</td>
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<td>E74</td>
<td>2012</td>
<td><strong>Postlethwaite, Victoria</strong> The effect of fungal E. Reekie endophytes on white spruce trees subject to various physiological stresses (<a href="#">pdf available</a>)</td>
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<td>E75</td>
<td>2013</td>
<td><strong>Godfrey, Adam</strong> The impact of salt marsh restoration on T. Sizmur mercury fate and biogeochemistry (<a href="#">pdf available</a>)</td>
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<td>E76</td>
<td>2013</td>
<td><strong>Tymstra, Drake</strong> A paleolimnological record of anthropogenic impact on water quality in First Lake, Lower Sackville, Nova Scotia (<a href="#">pdf available</a>)</td>
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<td>E77</td>
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<td><strong>Loder, Amanda</strong> Examination of metals in gastropods to determine the potential for accumulation in the Border Marsh region (<a href="#">pdf available</a>)</td>
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<td>E78</td>
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<td><strong>Mahon, Lewis</strong> Examining biotransport of trace metals (<a href="#">pdf available</a>)</td>
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<td>Passive acoustic monitoring of cetaceans at intertidal weirs in Minas Basin, Nova Scotia (pdf available)</td>
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<td>Bennett, Jillian</td>
<td>The freshwater fish community and brown trout movement patterns in Little River, Saint John, New Brunswick (pdf available)</td>
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<td>Brophy, Michael</td>
<td>Characterization of natural organic matter and microorganisms within Fletchers Lake: a lake that discharges treated wastewater into a drinking water source (pdf available)</td>
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<td>E83</td>
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<td>McKee, Erin</td>
<td>A paleoenvironmental and paleogeographic reconstruction of the terminal Archaic-Woodland Boswell Site, Kingston, Nova Scotia (pdf available)</td>
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<td>Adams, Sarah</td>
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<td>Christensen, Thora</td>
<td>Summer temporal changes in photoreducible mercury in the lakes of Kejimikujik National Park (pdf available)</td>
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<td>Investigations of ex situ strategies for the conservation of Geum peckii (Eastern Mountain Avens) (pdf available)</td>
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<td>E88</td>
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<td>Gillis, Erica</td>
<td>Comparative genetic analysis of Crocanthemum canadense (L.) Michx. plants of known pedigree (chasmogamous- or cleistogamous-seeds) using amplified fragment length polymorphisms (pdf available)</td>
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<td>E89</td>
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<td>Seals in Western Hudson Bay: assessing proportions in natural and human harvests using genetic methods (pdf available)</td>
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Diversity of Eastern Mountain Avens, *Geum peckii* Pursh (Rosaceae), from degraded and pristine habitats in Digby County, Nova Scotia Canada (pdf available)

E85 2016 Ardley, Sonya Effluent water quality and treatment options for a food processing facility (pdf available)

E86 2016 Christensen, Thora Summer temporal changes in photoreducible mercury in the lakes of Kejimikujik National Park (pdf available)

E87 2017 Fancy, Sarah Investigations of ex situ strategies for the conservation of Geum peckii (Eastern Mountain Avens) (pdf available)

E88 2017 Gillis, Erica Comparative genetic analysis of Crocanthemum canadense (L.) Michx. plants of known pedigree (chasmogamous- or cleistogamous-seeds) using amplified fragment length polymorphisms (pdf available)

E89 2017 Sherbo, Bryanna Seals in Western Hudson Bay: assessing proportions in natural and human harvests using genetic methods (pdf available)

E90 2018 Clarke, Rachel Influences of water and sediment chemistry on mercury
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<td>Bioaccumulation in freshwater invertebrates from two lakes in Kejimkujik National Park, Nova Scotia</td>
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<td>Determination of Delia species as agricultural pests in commercial onion crops in Nova Scotia</td>
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<td>Running on empty: determining the presence of feeding behaviour in anadromous alewife in Jolicure Lake, New Brunswick</td>
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