



Elizabeth MacCormick

ea.maccormick@gmail.com 902.565.5536

SUMMARY OF QUALIFICATIONS

- Currently pursuing a Master of Science in Agriculture.
- Knowledgeable in waste management and byproduct utilization
- Experienced in collaborative and integrative efforts in community coastal management.
- Skilled in the collection and processing of both soil and water chemistry profiles.

EDUCATION

Dalhousie University, Faculty of Agriculture

Truro, Nova Scotia

Master of Science in Agriculture (*Current Candidate*)

Thesis Title: Evaluating the effect of salmon-based silage as an agricultural soil amendment on crop growth and soil nutrient dynamics in Newfoundland and Labrador (*Supervisor: Dr. Gordon Price*)

Cape Breton University

Sydney, Nova Scotia

Bachelor of Science in Community Studies (BScCS) 2007

Concentration: Biodiversity

PROFESSIONAL EXPERIENCE

Verschuren Centre for Sustainability in Energies and the Environment, Cape Breton University

Sydney, Nova Scotia

Science Researcher, 2016 to present

- Working with the byproduct development research team
- Projects are focused on identifying opportunities for value-added byproducts created from locally sourced organic waste materials.

Cape Breton University

Sydney, Nova Scotia

Science Researcher, 2015 to 2016

- Working in collaboration with the Organic Chemistry Research Laboratory and Verschuren Centre for Sustainability in Energies and the Environment exploring the potential utilization and valorization of food industry waste streams.
- Experimental trials include repeated fermentations using novel means of entrapping bacteria from solution.

Dalhousie University, Faculty of Agriculture

Truro, Nova Scotia

Graduate Student, 2012 to present

- Graduate research focused on evaluating the effect of using ensiled salmon mortalities as a soil amendment on crops used by the dairy industry in Newfoundland and Labrador.
- Key soil parameters and crop responses were monitored on research plots located at the Atlantic Cool Climate Crop Research Centre in St. John's, NL.
- Laboratory analysis of sampled material was conducted through Dalhousie University's Innovative Waste Management Lab in Truro, NS

Research Assistant, 2015

- Benchmarking academic curriculum for Landscape Architecture.
- Created a comparative analysis of universities offering courses in the field of post-industrial landscape regeneration and remediation.

Teaching Assistant, 2014

- Course title: Waste Management and Site Remediation
- Assisted in the organization and execution of laboratory classroom activities. Also responsible for marking weekly reports and other classroom material generated by students.

Bras d'Or Institute for Ecosystem Research, Cape Breton University

Sydney, Nova Scotia

Harmful Alteration, Disruption or Destruction (HADD) of Fish Habitat, 2009 – 2011

- Assisted with engaging multiple harbour societies on the planning and implementation of a university led monitoring project for Sydney Harbour.
- Worked closely with fishermen while monitoring artificial reef structures for compensation of commercial fisheries productivity and marine benthic habitat composition.

Atlantic Zone Monitoring Program (AZMP), 2009 - 2011

- Worked with Department of Fisheries and Oceans scientists on a comprehensive environmental monitoring program designed to increase DFO's capacity to understand, describe, and forecast the state of the ocean environment and marine ecosystem.
- Assisted with the monthly collection and processing of biological, chemical, and physical field data from two AZMP sites within the Bras d'Or Lakes.

Marine Water Quality Monitoring, 2010 - 2011

- Worked with a diverse team of biologists and engineers on the planning and management of an Environment Canada survey of the water quality of shellfish growing areas within the Bras d'Or Lakes.
- Responsible for the safe handling and maintenance of marine monitoring equipment. Also responsible for the operation of a twenty-foot research vessel and the safety of its crew.

Integrated Land Management, 2009 - 2010

- Assisted with the implementation of a GeoConnections pilot project on integrated land management in the Bras d'Or watershed.
- Worked with a diverse group of stakeholders on the discovery, gathering, and compilation of geospatial data sets that portray various health indicators for the Bras d'Or ecosystem, and support the validation of models that portray land-ocean connectivity in the ecosystem.
- Worked closely with the International Institute for Sustainable Development on the planning and implementation of a community-based workshop on the potential effects of climate change in the Bras d'Or watershed.
- Presented a report on the Bras d'Or pilot project at an integrated land management workshop hosted by Environment Canada in Ottawa, February 2010

Report on the Health of the Bras d'Or Ecosystem, 2008 – 2009

- Worked with the Collaborative Environmental Planning Initiative (CEPI) on creating an inventory of environmental, social, and economic indicators that portray various qualities of the Bras d'Or watershed and its communities.
- Activities included the gathering and organization of indicator data sets, as well as examining the current practices of how environmental and social indicators are successfully used to inform the public on the issues facing marine habitats.

Atlantic Coastal Action Program (ACAP)

Sydney, Nova Scotia

Environmental Education, 2003 - 2004

- Under the guidance of the Nova Scotia Youth Conservation Corps, participated in a public education campaign to build awareness on water conservation issues in the Cape Breton Regional Municipality.
- Worked with a team of environmental educators on the design and implementation of interactive displays for elementary-aged children in the Cape Breton-Victoria Regional School Board.

Cape Breton Regional Municipality (CBRM) Recreation Department

Sydney, Nova Scotia

Hiking Trail Research, 2002

- Worked with a diverse team researchers and land-use planners on the creation of a detailed report on recreational hiking trails located in the CBRM.
- Collected information included the geospatial data for trails and the location of unique features of ecological or historical significance. Descriptions of the natural, historical, and cultural aspects of the trails were also included in the report.

RECENT VOLUNTEER EXPERIENCE

Aros Na Mara World Oceans Day (WOD) Messaging Committee

Sydney, Nova Scotia (2016 – present)

Part of a diverse group of scientists and community leaders brought together to plan the format and function of "Bras d'Or Talks", a series of panel discussions and keynote addresses to be featured during a WOD event in Grand Narrows, NS (June, 2016)

Seawall Trail, Sydney Working Group

Sydney, Nova Scotia (2016 -- present)

Active in the promotion of proposed multi-day hiking trail in Northern Cape Breton Island.

Bras d'Or Lake Biosphere Reserve Association (BLBRA) Social Media and Internet Content Provider

Sydney, Nova Scotia (2015 -- present)

Creating internet content and social media relations for a UNESCO Man and the Biosphere Reserve. Also a current observer on the Board of Directors and active in event planning committees.
(Twitter @BL_Biosphere)

Conference Volunteer

Various Locations, Nova Scotia (2014 – present)

Canadian Water Network Applied Biosolids Symposium, Truro 2015

Agri-Futures Nova Scotia Ag. Connect Conference, Truro 2015

Atlantic Canadian Organic Regional Network (ACORN) Conference and Trade Show, Halifax 2014

Seeds of Diversity: Seedy Saturday

Truro, Nova Scotia (2014)

Assisted with the creation of an interactive map showcasing community food assets in the Truro and surrounding area.

Ruminant Discussion Series

Truro, Nova Scotia (2014)

Regular participant in panel discussions highlighting current themes in agricultural and graduate student research.

Bras d'Or Lake Biosphere Reserve Association (BLBRA)

Baddeck, Nova Scotia (2007 – 2012)

Member of the Board of Directors (2010 - 2012) and active in the promotion and implementation of the three basic mandates for a UNESCO Man and the Biosphere reserve: conservation, sustainable development, and logistic support for research and education. Represented the BLBRA during a panel discussion on integrated resource management hosted by the Coastal Community-University Research Alliance (Coastal CURA) at Saint Mary's University, June 2011.

Bras d'Or Lakes Collaborative Environmental Planning Initiative (CEPI)

Eskasoni, Nova Scotia (2006 – 2010)

Participant in activities focused on the management of the Bras d'Or Lakes and its surrounding watershed. Participated in two science workshops highlighting the current and potential research efforts within the Bras d'Or watershed.

CONTRIBUTIONS TO RESEARCH AND DEVELOPMENT

MacCormick, E., 2013. Evaluating the effect of salmon-based silage as an agricultural soil amendment on crop growth and soil nutrient dynamics in Newfoundland and Labrador. American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America International Annual Meeting. Tampa, Florida. November 5, 2013. Oral Presentation.

Hatcher, B.G., Baechler, F., Denny, S., Harris, D., **MacCormick, E.**, McCreedy, R., Naug, J., Porter, S., Rochon, G., 2008. Proceedings of the Bras d'Or state of the ecosystem reporting workshop. *Bras d'Or Inst. Ecosystem Research Publ.* No. 45. 23pp.

Hatcher, B.G., Squires, K.E., **MacCormick, E.**, 2009. Assessing potential change in the marine ecosystem goods and services provided to Cape Breton fishermen by the construction of a proposed container terminal in Sydney Harbour, Nova Scotia. *Bras d'Or Inst. Res. Publ.* No. 46, 73pp, Cape Breton University, Sydney, N.S

Hatcher, B.G., Stuart, R., McVarish, C., Hatcher, S., **MacCormick, E.**, 2009. Sydney Harbour Underwater Video Transects: August & September 2009. *Bras d'Or Institute for Ecosystem Research Publication* No. 47. 10pp + 26 digital videos.

Hatcher, B.G., Squires, K., Stuart, R., **MacCormick, E.**, McVarish, C., & 9 members of the Sydney Harbour Fishermen's Association. 2010. Valuing the Marine Ecosystem Goods and Services provided by the Sydney Harbour to the Fishermen of Cape Breton. *Proceedings of the 17th annual Meeting of the Fishermen and Scientists Research Society*, Truro, Nova Scotia, February, 2010.

INVITED SEMINARS AND OTHER PRESENTATIONS

- Canadian Society of Soil Science Annual Meeting, McGill University, Montreal QC. July 2015 (*Poster Presentation*)
- Ruminant Discussion Series, Dalhousie Faculty of Agriculture. Truro, Nova Scotia. August 2014 (*Oral Presentation*)
- Annual Open House, Dalhousie Faculty of Agriculture. Truro, Nova Scotia. July, 2014. (*Poster Presentation*)
- Cold Harvest: 21st Annual Conference and Trade Show, Newfoundland Aquaculture Industry Association. Gander, Newfoundland and Labrador. February, 2014. (*Oral Presentation*)
- Annual Farm Field Day, Atlantic Cool Climate Crop Research Centre. St. John's, Newfoundland and Labrador. August, 2013. (*Poster Presentation*)
- Graduate Research Days, Dalhousie Faculty of Agriculture. Truro, Nova Scotia. May, 2013. (*Poster Presentation*)
- Our Food, Our Future: Growing the Agriculture Industry in Newfoundland and Labrador. Department of Natural Resources, Agriculture Development Branch. Corner Brook, Newfoundland and Labrador. November, 2012. (*Poster Presentation*)
- People in Places: Engaging Together in Integrated Resource Management. Coastal Community-University Research Alliance (Coastal CURA). Halifax, Nova Scotia. June, 2011. (*Poster Presentation*)
- Bringing Place-Based Tools to Policy: Connecting Information, Knowledge, and Decision-Making in the Federal Government. Environment Canada. Ottawa, Ontario. February, 2010. (*Oral Presentation*)
- Student Undergraduate Research Forum (SURF). Cape Breton University. Sydney, Nova Scotia. March 2006. (*Poster Presentation*)

HONOURS AND AWARDS

- Fourth Place in the Nutrient Management and Plant Analysis Division Graduate Student Oral Competition. American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America International Annual Meeting. Tampa, Florida (2013)
- Dalhousie University Graduate Entrance Scholarship (2012)
- Natural Sciences and Engineering Research Council of Canada (NSERC) - Industrial Undergraduate Research Awards (2005 and 2006)