

APPENDIX A – CURRICULUM VITAE

Martine Esraelian

TERRESTRIAL ECOLOGIST

EDUCATION

BSc, Biology, Trent University, Peterborough, Ontario, Canada, 2006

Diploma, Environmental Science, Sir Sandford Fleming College , Lindsay, Ontario, Canada, 2000

SUMMARY OF EXPERIENCE

Martine Esraelian is a Terrestrial Ecologist specializing in species at risk and terrestrial ecosystems and has more than 2 years experience in renewable power. Martine has been involved in hydro, wind and more than 40 solar power projects. Martine has a BSc from Trent University where she specialized in Conservation Biology and Ecological Management and an Ecosystem Management Technician diploma from Sir Sandford Fleming College.

Martine has diverse technical and consulting experience as well as strong field identification skills. Martine has conducted field inventories and assessments that have included wildlife and vegetation surveys, species at risk surveys and monitoring, Ecological Land Classification (ELC) and habitat mapping, wetland evaluations, soil surveys, land use surveys, and hydrological assessments. Martine has managed several environmental projects from initial design and planning through technical analysis, documentation, and delivery. She has completed several environmental and agricultural impact studies for major development projects which has enabled her to liaise with all levels of government, the community, and a portfolio of clients that include consulting firms, planners, and high-profile developers. She also has considerable experience working with species at risk, including Jefferson salamander, spotted turtle, spoon-leaved moss, Massasauga and gray ratsnake among others. Martine is a certified Butternut Health Assessor and also holds a certificate in the Ecological Land Classification (ELC) system and Ontario Wetland Evaluation System (OWES).

CAREER HISTORY

2010 - Present	Hatch, Niagara Falls, Ontario, Canada. Terrestrial Ecologist
2008 - 2009	Colville Consulting Inc., St. Catharines, Ontario, Canada. Ecologist
2007 - 2008	Ministry of Natural Resources, Vineland, Ontario, Canada. Species at Risk Technician
2004 - 2004	Regional Municipality of Niagara, Thorold, Ontario, Canada. Environmental Assistant
2003 - 2004	Ministry of Natural Resources, Peterborough, Ontario, Canada. Conservation Biologist Intern
2001 - 2003	City of St. Catharines, St. Catharines, Ontario, Canada. Environmental Technician

PROFESSIONAL DEVELOPMENT

3-day Workshop, Turtle Management and Wetland Design, 2008

Certificate, Ontario Wetland Evaluation System, 2011

Certificate, Butternut Health Assessment, 2009

Certificate, Ecological Land Classification, 2009

Certificate, PADI Scuba Diving - Basic and Advanced, 2004

Certificate, Basadur Applied Creativity Management Training Program - Levels 1 and 2, 2004

Certificate, Project Wild, 2003

LANGUAGES

English



BIOGRAPHY

Dave Jolly is a Senior Biologist/Ecologist with expertise in all aspects of terrestrial and wetland ecology and has been involved with Class 1 to 4 renewable energy projects since 2008. At M.K. Ince and Associates Ltd. (MKI) Dave is presently involved in ELC, wetland assessments, and wildlife habitat surveys as part of pre-construction Environmental Assessment, Natural Heritage reporting and the new REA processes for over a dozen commercial scale wind power projects across Ontario.

Before joining MKI, Dave has worked for all levels of government and non-government agencies as well the education and private sector in Canada, the United States, Panama, Costa Rica, Peru, Mexico, and Nepal. He has experience in training environmental professionals in areas that include but are not limited to methodology and protocols for performing ecological studies, GIS, environmental law, flora and fauna identification including Species at Risk, Ecological Land Classification (ELC), Ontario Wetland Evaluation System, natural heritage assessments, and environmental assessments. Dave has experience as an expedition leader/scientist designing, marketing and operating over 20 international research and conservation expeditions to Central, South America and southeast Asia to study primates, plants, birds and mammals. He is skilled in all aspects of the environmental consulting process (with over 10 years of experience), project development/management and managing client relations. Dave has secured numerous government contracts valued at > \$100 000 each and is fully adept in GIS, ELC, Wetland evaluation, staff management, environmental and site assessments.

In his spare time Dave enjoys hiking in search of various vascular plants including Species at Risk, writing books, photography, assisting non-profit organizations with their natural heritage inventories and spending time with family.

EXPERIENCE

- Facilitated regulatory approvals under the *Migratory Birds Convention Act*, *Fish and Wildlife Act*, *Conservation Authorities Act*, *Provincial Policy Statement*, *provincial and federal Species at Risk Act*, *provincial and federal Endangered Species Act*, *Planning Act*, *Ontario Environmental Assessment Act* and the *Canadian Environmental Assessment Act*
- Provided expertise and senior review to over 100 terrestrial and wetland biophysical assessments including wetland studies and monitoring projects, Ecological Land Classification projects, various Species at Risk projects
- Environmental inspection and compliance monitoring for construction projects in York, Durham, and Niagara Regions
- Trained environmental professionals through teaching and designing over 30 certification courses that are exempt from registration from the Ontario Ministry of Training and Colleges and Universities
- Extensive experience in negotiations and business development with Métis and First Nation groups

EDUCATION

- B.Sc., Ecology and Evolution, University of Western Ontario, 1992

AFFILIATIONS

- Field Botanists of Ontario, member
- Haldimand Bird Observatory, member

TRAINING/CERTIFICATIONS

- Lichen identification, 2012
- Bear Awareness, 2011
- Ice Safety, 2011
- Project management/ leadership, 2004
- Ontario Wetland Evaluation Systems, 2008
- Ecological Land Classification for Southern Ontario, 2004
- Standard First Aid and CPR certified

PROJECT EXPERIENCE

- ZEP Wind Farm Ganaraska, Next Era Wind Farm, Ernesttown Horizon Wind Farm, Port Ryerse Wind Farm, Grey Highlands ZEP Wind Park, Grey Highlands Clean Energy, Clean Breeze Centreton Wind Park, Clean Breeze Grafton Wind Park, Dufferin Wind Farm, Bow Lake Phase 1 —REA Application Process
- Organization and implementation of biological field studies for all projects listed above

PRIOR WORK / VOLUNTEER EXPERIENCE

- Senior Biologist/Ecologist: Dillon, AECOM, EARTHQUEST, Avalon Professional Consultants of Ontario, Fieldlife Environmental Consultants
- Senior Instructor & President: EARTHQUEST Biological Field School.
- Volunteer Botanist for the Grand River Conservation Authority
- Designed, published and marketed five field guide books on flora and fauna of Ontario and the Bruce Trail system
- Designed, marketed and operated over 20 international research/conservation expeditions to Central, South America and southeast Asia

BIOGRAPHY

Joel Jameson is a Renewable Energy Biologist – Bat Specialist for M.K. Ince and Associates. He has a Bachelor (Honours) degree in Zoology from the University of Manitoba and a Masters degree in Biology from the University of Winnipeg.

Joel has worked on ecological projects in California, Ontario, Saskatchewan and Manitoba. His work has resulted in 4 peer-reviewed publications and a number of non-peer-reviewed papers, reports, and presentations, most of these on bats. During his masters, Joel designed, implemented and oversaw various research projects to understand and quantify impacts of wind energy on wildlife, especially bats. In addition to a strong background in research, Joel has worked on a number of pre-construction impact assessments of wind energy for private companies. His proficiency with a broad range of bat monitoring tools and techniques results in efficient and effective completion of REA application processes related to bats. His recent experiences with MKI have provided him with the skills to execute most REA Natural Heritage Assessment processes (e.g. Records Review, wildlife habitat surveys pertaining to the Site Investigation process, and amphibian, reptile, bat, and some bird surveys pertaining to the Evaluation of Significance process).

Joel has recently adopted an enthusiasm for birds which he is developing into a skill he can apply to the REA process. He enjoys hiking, fishing and rock climbing.

EXPERIENCE

- Over 9 years of experience conducting biological field work in remote locations and in all weather conditions
- Study design, permit and grant applications
- Writing of pre-construction reports for commercial-scale wind energy projects.
- Data analysis using a variety of software including GIS, SAS, Sonobat and Avisoft.
- Oral presentations
- Co-ordination and supervision of field researchers

EDUCATION

- B.Sc. Zoology, University of Manitoba, 2007
- M.Sc. Biology, University of Winnipeg, 2011

PROJECT EXPERIENCE

- Bow Lake Wind Farm Phase 1
- Port Ryerse Wind Farm
- Skyway 125 Wind Energy Project
- Skyway 126 Wind Energy Project

PRIOR WORK / VOLUNTEER EXPERIENCE

- Monitoring bats using Passive Integrated Transponder technology to understand the movement of White Nose Syndrome among bat populations (volunteer).
- Statistical analysis of a complex data set investigating the behaviour of bats afflicted with White Nose Syndrome
- Designed, conducted and managed large-scale acoustic and mortality surveys for bats at communication towers and at a wind energy facility.
- Recorded and studied the echolocation calls of bats at maternity colonies in Georgian Bay, ON. Excluded bats from cottages.
- Small mammal surveys for a large-scale biodiversity project in Lake Tahoe, CA.

BIOGRAPHY

Robert Tymstra is an avian wildlife specialist with M.K. Ince and Associates. He graduated from the University of Waterloo with a Bachelor of Environmental Studies.

Rob's avian wildlife experience includes bird surveys, censuses, expeditions, banding, and migration monitoring. He has worked on avian surveys and studies in Ontario and has birded in over 60 counties worldwide. Since 2004, Rob has specialized in conducting avian surveys for wind turbine projects across Canada. His broad and extensive experience in all things avian makes Rob a highly valued member of the MKI team.

EXPERIENCE

- Participated in bird surveys, censuses, expeditions and migration monitoring programs across Canada and remote parts of the world.
- Regional Co-ordinator for Ontario Herpetological Atlas and Ontario Mammal Atlas. Participated in Ontario Forest Birds Monitoring Program.
- Led bird survey expeditions in Hudson Bay Lowlands for Ontario Breeding Bird Atlas (Opinnagau and Albany Rivers) and completed several sections in Southern Ontario for Breeding Bird Atlas 1981-1985 and 2001-2005.
- Researcher and camp leader for a Habitat Based Wildlife Assessment of Ekwan Point, Longridge Point and Western James Bay coast. Field work involved walking line transects, point counts.
- Worked as Nature Interpreter at Algonquin Provincial Park
- Initiated a long-term distributional study of the birds of the little-known islands and waters of James Bay.
- Participated in Yunnan, China expedition in a successful search for *Sclater's Monal*, a rare pheasant not seen by Westerners since WWII. Also documented other limited distribution bird species.
- Conducted population surveys on endangered *Butler's Garter Snake* in southern Ontario 2008-2010.

EDUCATION

- B.E.S., University of Waterloo, 1991.
- Professional Photography Diploma, New York Institute of Photography

TRAINING

- Wildlife biology, Marine and Fisheries courses: courses, University of Guelph
- Wilderness Survival and Tracking courses: Tom Brown School, New Jersey

CORE COMPETENCIES

- Avian surveying and monitoring
- Wildlife tracking
- Bird-banding
- Recording bird songs
- Birding tourleader

RELEVANT INDUSTRY EXPERIENCE

- Over 5100 bird species observed in over 60 countries
- Avian surveys, censuses, expeditions and migration monitoring
- Preparation of technical reports, journal articles and a book for bird studies
- Publication of several photos in books and journals

MEMBERSHIPS AND ASSOCIATIONS

- Board of Directors: Pelee Island Bird Observatory (banding station)
- Board of Directors: Wilds of Pelee Island
- Ontario Field Ornithologists member
- Explorers Club fellow