

NAVIN BINDRA

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Professional Work Experience

Senior Environmental Specialist, *Engconsult Ltd., Brampton, Ontario*

2015-2018

- Environmental impact assessments, including impacts on sensitive ecosystems & protected areas.
- Cumulative impact assessments, including potential future developments.
- Alternative analysis of technology, feasibility studies and risk assessment for projects.
- MOECC compliance (EASR, ECA, noise & odour screening) and preparation of ESDM reports.
- Air quality modeling & assessment using USEPA regulatory models AERMOD, CALPUFF, and SCREEN3, including preparation of emissions inventories and sensitive receptor sites.
- Refined grid (100 m) and long-range (more than 50 km) pollutant transport modeling.
- Climate change risk assessment and adaption planning, including GHG emissions calculations.
- Preparation of ESIA, EMP, ECPs and Technical Project reports.
- Coordinating project activities, including work planning and QA/QC of project deliverables.
- Preparation of project proposals, evaluating RFP's, interpreting and preparing TOR's for projects.

LCA Expert / Graduate Teaching Assistant, *University of Guelph, Ontario*

2013-2014

- Teaching assistant for *Solid & Hazardous Waste Management* course.
- Carried out bi-weekly tutorial sessions with 30 students in each session.
- Marked assignments, tests, midterms and the final exam.
- Researched odour control technologies used in municipal solid waste organics processing facilities.
- Conducted technological assessments, site visits and lab assessments.
- Carried out life cycle assessment (using Simapro 8 software & Eco-invent database processes).

Environmental Specialist, *Engconsult Ltd., Brampton, Ontario*

2009-2013

- Environmental impact assessments, environmental audits and feasibility studies.
- Assisted with preparation of EIA, EMP and Project reports.
- Air quality and emissions modeling for criteria pollutants, including MGLC Vs. distance graphs, stack sensitivity analysis and source contribution.
- Noise modeling & assessment (including construction, road traffic and piling activities).
- Thermal plume modeling for discharge from thermal power stations.
- Assisted project manager with coordinating project activities and implementation tasks.
- Preparation of EOI's and project proposals for various projects, including hydropower, thermal power, solar, urban infrastructure, road, water supply & sanitation and climate change adaptation.

Education

Master of Engineering, Environmental Engineering, University of Guelph

2013- 2015

- CGPA: 91.8%

Bachelor of Applied Science, Mechanical Engineering, University of Toronto

2004 - 2008

- Specialization: Energy & Environment

Memberships and Training

- **Licensed Professional Engineer**, Professional Engineers of Ontario, Canada
- Photovoltaic Generation and Installation Course, Kortright Centre for Conservation, 2011
- Radiation Safety & TDG (Transporting Class 7 Materials) Certificate, 2011

Publications

- Bindra N. and Karim M. (2018) **Balancing Between Two Extremes During EIA: A Case Study**. International Journal of Environmental Processes. (Under Review).
- Bindra N. and Karim M. (2016) **Cumulative Impact Assessment for Sindh Barrages**. Journal of Impact Assessment and Project Appraisal. Volume 34 - Issue 4, Pages 346-358.
- Bindra N., Dubey B. and Dutta A. (2015) **Technological and Life Cycle Assessment of Odor Control Technologies**. Science of the Total Environment Journal. Volume 527-528, Pages 401-412.

Computer and Technical Skills

- Microsoft Suite (Extensive experience with Excel, Word and PowerPoint)
- FHWA TNM 2.5 (Federal Highway Administration Traffic Noise Modeling Software)
- BREEZE Roads (CALINE-4 and CAL3QHC Air Dispersion Modeling Software)
- AERMOD (Air Quality Modeling Software)
- CALPUFF (Long range air quality Modeling Software)
- SDSM 4.2 (Statistical Downscaling Model for Climate Change Analysis)
- Visual Plume (Thermal Plume Modeling Software)
- SimaPro 8 (Life Cycle Assessment Software)