



CREDENTIALS

- ♦ B.S., Physics, University of Waterloo, 1999
- ♦ M.S., Physics, University of Waterloo, 2001
- ♦ MM5/WRF Training (2006)
- ♦ CALPUFF Training (2012)

**PROFESSIONAL
EXPERIENCE**

- ♦ **2016-Present:** All4 Inc., Kennesaw, GA – Project Scientist
- ♦ **2011-2015:** Golder Associates, Calgary, AB, Canada – Air Quality Scientist
- ♦ **2008-2011:** Center for Earth Observation Studies, University of Manitoba, Winnipeg, MB, Canada – Research Assistant
- ♦ **2001-2008:** Department of Physics, University of Toronto, Toronto, ON, Canada – Research Assistant and Ph.D. Candidate

TECHNICAL EXPERTISE

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| ✓ Air quality dispersion modeling studies to support air toxics, minor new source review, PSD, and other air quality related permitting programs which include the use of the AERMOD and CALPUFF modeling systems as well as AERSCREEN; | ✓ Meteorological modeling using MM5, and detailed meteorological analysis of air quality dispersion modeling related issues; |
| ✓ State and Federal air permit programs including Title V Renewal Applications, construction permit applications. | ✓ PSD/NSR Applicability Analyses |
| ✓ New/modified source air permitting | ✓ Health Risk Assessments |
| | ✓ Regional Haze Analyses conducted using the CALPUFF modeling system to evaluate Best Available Retro-Fit Technology (BART); |

PROFESSIONAL OVERVIEW

Ms. Rebekah Bowlds has over eight years of professional experience in air quality consulting, with a focus on ambient air quality modeling and strategic planning based on modeling results. She has used the AERMOD modeling system in support of strategic initiatives in the oil and gas, pulp and paper, and mining industries. She has also used the CALPUFF modeling system for regional area air quality modeling, used in permitting for large-scale upstream oil projects.

In addition to air quality modeling activities, Ms. Bowlds has assisted with preparing Title V renewal applications; construction permit applications including Plantwide Applicability Limitation (PAL) and major New Source Review (NSR) permitting teams. Ms. Bowlds has also led teams in preparation of; emissions inventories, annual compliance reports, and greenhouse gas (GHG) reports.

Ms. Bowlds has led and managed project teams, where she has interacted with several different industries including upstream, midstream, and downstream oil and gas facilities, pulp and paper mills, Portland cement manufacturing, power generation, wood-products industries, oil and gas facilities, and secondary aluminum facilities. She has air quality dispersion modeling, reporting and/or permitting experience in multiple states, as well as several Canadian jurisdictions.