

# Russell Green Osborne

📍 Tumbler Ridge, BC, Canada    ✉ russell@bertilak.ca    📞 (250) 608-7684    🌐 bertilak.ca    🌐 russ-go  
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## Professional Summary

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Environmental professional with 2+ years of progressive experience in environmental data management, analysis, and reporting at Conuma Resources. Currently performing intermediate-level data analysis responsibilities including database management, QA/QC protocols, automated reporting systems, and cross-functional process improvements. Proven expertise in Python-based data processing, PowerBI dashboard development, and environmental compliance reporting across air, water, and soil monitoring programs. Active JOHSEC member with strong commitment to safety culture and operational excellence.

## Technical Competencies

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**Data Management & Analysis:** MonitorPro (daily operations, SQL backend database management), Python (Pandas, GDAL, arcpy libraries for ETL processes), PowerBI (Water Quality deliverables and dashboard creation), SQL (direct database interactions and data connections), Excel/PowerQuery (advanced pivot tables, meteorological data analysis), Streamlit (custom data visualization applications)

**Environmental & GIS Systems:** ArcGIS Pro (via arcpy scripting and spatial analysis), Environmental database management and QA/QC protocols, Air quality monitoring and non-compliance reporting, Surface water and groundwater data analysis, Pressure compensation for continuous flow/discharge data, Legacy data migration and quality control, Precision agriculture and environmental sampling techniques

**Programming & Automation:** R, Python, Perl (data analysis and automation), Linux system administration, OpenDroneMap/Photogrammetry, Geopython libraries and spatial data processing

## Professional Experience

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### Conuma Resources, Environmental Technician

Quintette Mine  
Jan 2023 – present

- **Data Management & Quality Assurance:** Perform daily QA/QC on multiple environmental data streams feeding organizational reporting systems. Maintain and optimize both legacy and modern data management processes for environmental compliance. Identify and resolve data quality issues in historical datasets and legacy data imports. Execute Python-based ETL processes using Pandas, GDAL, and arcpy libraries for automated data processing.
- **Analysis & Reporting:** Participate in comprehensive annual environmental reporting process, including data processing, summary writing, and visualization development. Prepare monthly and quarterly air quality non-compliance reports with supporting data analysis and visualizations. Create maps and spatial assets for regulatory and internal reporting requirements. Process and analyze air, groundwater, and surface water monitoring data from comprehensive sampling programs.
- **Database & Systems Development:** Developed SQL-based workflows to interact directly with MonitorPro database backend for PowerBI integration. Created automated data connections supporting multiple Water Quality deliverables and dashboards. Use advanced Excel and PowerQuery functions to tabulate meteorological data for various reports and tracking systems. Build custom Streamlit applications for internal data visualization and analysis.
- **Process Improvement & Innovation:** Proposed and frameworked internal GIS-based reclamation monitoring and tracking system to help reclamation team build support for strong data management being core to achieving progressive reclamation objectives. Successfully onboarded contractor teams into MonitorPro system, establishing it as primary time-series data repository. Led cross-site collaboration to deploy monitoring schedules within MonitorPro, improving data transparency and organizational usability. Implemented process improvements increasing accountability and accessibility of environmental data across departments.
- **Safety Leadership & Compliance:** Active member of Joint Occupational Health & Safety Committee (JOHSEC), contributing to site-wide safety culture development. Execute comprehensive sampling programs across air, groundwater, and surface water monitoring networks. Manage varying frequency sampling schedules and coordinate between field teams and laboratory services. Ensure compliance with provincial and federal environmental monitoring requirements.

### Various Organizations, Previous Environmental & Technical Experience

Alberta & BC  
Jan 2011 – Dec 2022

- **Research & Development Focus:** Research Assistant, University of Alberta (Hydrological monitoring systems and wastewater treatment efficacy research). Owner/Operator, Greenhall Ag/Tech (Agricultural technology solutions, UAV photogrammetry, and precision agriculture consulting). Environmental roles with City of Edmonton, Tipi Mountain Native Plants (GIS development, naturalization planning, and environmental monitoring).
- **Technical Expertise Development:** Developed UAV platforms and photogrammetry pipelines for agricultural and environmental applications. Created GIS solutions for water line mapping, fencing projects, and ALR proposals. Implemented monitoring systems for hydrological characterization and environmental assessment. Extensive experience with precision agriculture, environmental sampling, and data analysis methodologies.

## Education

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<b>B.Sc</b>	<b>University of Alberta</b> , Sustainable Agriculture	Edmonton, AB Sept 2010 – present
<b>Diploma</b>	<b>Olds College</b> , Land & Water Resources - Environmental Stewardship	Olds, AB Sept 2007 – June 2009
<b>Certificate</b>	<b>CTP/CATA</b> , Web Design & Maintenance	Calgary, AB Sept 1997 – June 1998

## Certifications and Qualifications

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- Valid Class 5 Driver's License (willing to travel as required)
- Joint Occupational Health & Safety Committee (JOHSEC) Member
- Workplace First Aid & CPR Certification
- AST 1 Avalanche Training Certification
- Pesticide Applicator Certification (2008)
- A+ Equivalent IT Certification (2001)

## Key Achievements

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- **At Conuma Resources:** Implemented SQL-based MonitorPro integration improving data accessibility and reducing manual processing time; Led contractor onboarding initiative that standardized data collection across multiple teams; Proposed GIS reclamation tracking system demonstrating forward-thinking approach to environmental monitoring; Identified and resolved multiple legacy data quality issues, improving overall database integrity; Active JOHSEC participation supporting Conuma's industry-leading safety record.
- **Career Highlights:** Speaker at 2019 Columbia Basin Food Summit on agricultural technology innovation; Jason Lang Scholarship recipient (2009) for academic excellence; Developed novel UAV and GIS solutions for environmental and agricultural applications.