



Ashley Miller

Environmental Remediation

Contact

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Education

FANSHAW COLLEGE

2022

Post-Graduate Certificate; Geographic Information Systems

UNIVERSITY OF BREMEN

2018

Master of Science; Aquatic Ecology

UNIVERSITY OF WATERLOO

2015

Bachelor of Environment; Environment and Resource Studies

Experience

ROAR ENGINEERING Environmental Scientist

2023 - PRESENT

Complete environmental investigations regarding sites contaminated with volatile organic compounds, combustion by-products, fuel oil, and other hazardous materials. Conduct site evaluations to determine the cause of contamination, collect samples for laboratory analysis, and complete environmental remediation of contaminated sites. Determine the extent of environmental contamination on properties through site inspection, visual and olfactory evaluations, and soil and groundwater sampling. Prepare remediation programs, monitor site conditions and manage site activities. Ensure all work is conducted in accordance with the regulations set out by the Ministry of the Environment. Complete air quality testing to determine the existence of indoor air quality issues, determine the cause, and outline the necessary remedial activities to return the area to a healthy indoor environment.

Independently complete designated substance surveys, asbestos abatement inspections, lead assessments, drinking water sampling, indoor air quality monitoring, water damage assessments, smoke assessments, and various clearance assessments, while following all applicable regulations and best practice guidelines.

THE CITY OF MARKHAM Jr. GIS Technologist

2022 - 2023

Prepared and digitized data for the timely and accurate creation and maintenance of Corporate spatial and non-spatial datasets in a GIS environment.

Ashley Miller



Prepared zoning and planning maps according to the needs of the Planning Department.

Enhance and enrich existing spatial and non-spatial datasets. Ensuring quality and consistency throughout the databases, and that digital information is consistent with City and Region Standards.

ROAR ENGINEERING

2019 - PRESENT

Environmental/ Occupational Health and Safety Technician

Conduct Designated Substances Surveys in accordance with Ontario Regulation 490/09 and Ontario Regulation 278/05 of the Occupational Health and Safety Act. Collect bulk samples to determine if designated substances are present in building materials, such as asbestos and lead. Provide remediation procedures and sketches outlining the materials containing designated substances requiring removal. Complete clearance testing to confirm no contamination remains. Create Asbestos Management Plans for commercial/institutional buildings with known asbestos that will not be removed from the building, and provide reassessments.

Conduct site evaluations and sampling to determine the extent of water and/or moisture damage and the existence of mould growth. Outline the required cleaning and/or removal of mould-affected building materials. Assemble abatement protocols to assist the contractor in completing the necessary remedial activities. Include required procedures to ensure the health and safety of workers. Complete clearance testing to confirm no contamination remains.

Assist in environmental investigation regarding sites contaminated with volatile organic compounds, combustion by-products, fuel oil, and other hazardous materials. Conduct site evaluations to determine the cause of contamination, collect samples for laboratory analysis, and complete environmental remediation of contaminated sites. Determine the extent of environmental contamination on properties through site inspection, visual and olfactory evaluations, and soil and groundwater sampling. Prepare remediation programs, monitor site conditions and manage site activities. Ensure all work is conducted in accordance with the regulations set out by the Ministry of the Environment. Complete air quality testing to determine the existence of indoor air quality issues, determine the cause, and outline the necessary remedial activities to return the area to a healthy indoor environment.

T. HARRIS ENVIRONMENTAL MANAGEMENT

2019

Sr. Environmental/ Occupational Health and Safety Technician

Perform Phase I & II Site Assessments, including: analysis of aerial photographs, topographic and hydrogeological maps, ERIS reports, contacting government agencies, soil and groundwater sampling, and supervising drilling.

Independently complete designated substance surveys, asbestos abatement inspections, lead assessments, drinking water sampling, indoor air quality monitoring, water damage assessments, smoke assessments while following all applicable regulations and best practice guidelines.

Communicate effectively with contractors, sub-contractors, and clients in order to effectively complete surveys and reports.

Undertake data and field sample management including, but not limited to, the collection, recording and digital filing, transport and lab submission of samples, completion of chain of custody documents and sample analysis.



Performed daily mesocosm operations and experiments, controlling environmental variables including light, temperature, and flow rate.

Optimized photo analysis procedure for mesocosms, utilizing ImageJ, Adobe Photoshop and Agisoft Photoscan.

Photographed benthic areas (~100m²) and created scaled 3D photo-mosaics of the ecosystem using Agisoft Photoscan and Adobe Photoshop. Kept detailed daily records of mesocosm experiments and translated them into digital products.

Assisted with ADCP and Gradient Flux equipment set-up and retrieval using SCUBA.

Wrote grant proposals, work plans, dive safety plans and gave presentations about lab projects. Used Excel, JMP, R studio, and MATLAB for statistical analysis and data visualization.

Professional Memberships

ECO Canada, registered as Environmental Professional in Training

