



# PROFESSIONAL PROFILE



## Christopher Boron, PG

### Principal Geologist

#### CONTACT INFORMATION

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#### EDUCATION

BS, Biology, State University of  
New York at Fredonia

#### EXPERIENCE SUMMARY

Mr. Boron is a Professional Geologist in New York State and has twenty-six years of environmental assessment/investigation, remediation, and due diligence experience. Over the past ten years, Mr. Boron has been heavily involved with projects focusing on brownfield redevelopment in Western New York, supporting many developers and attorneys in that region. He earned a Bachelor of Science in Geology from the State University of New York at Fredonia and is currently a Principal Geologist in Roux's Buffalo, NY office.

#### TECHNICAL SPECIALTIES

Mr. Boron's project work has included remedial investigations, feasibility studies/alternatives analysis, and remediation under the New York State Department of Environmental Conservation (NYSDEC) Inactive Hazardous Waste Site (Superfund) Program, Voluntary Cleanup Program (VCP), New York State Brownfield Cleanup Program (BCP), Environmental Restoration Program, and NYSDEC Petroleum Spills Division.

#### REPRESENTATIVE PROJECTS

- Principal Geologist for the investigation, remediation, and development of an affordable housing/assisted living facility on Buffalo's Eastside, which was managed under the NYSDEC Brownfield Cleanup Program (BCP). Project involvement began with due diligence and included all phases of the NYSDEC BCP including BCP application; on-site remedial investigations; removal of approximately 10,000 tons of contaminated soil/fill and weathered bedrock; implementation of an enhanced reductive dichlorination groundwater remedy to address chlorinated volatile organic compounds (CVOCs) identified in the bedrock groundwater; and preparation of a Site Management Plan (SMP) and Final Engineering Report (FER). Post-Certificate of Completion (2023) performance monitoring ongoing.
- Senior Project Manager/Principal Geologist for the investigation, remediation, and development of a student housing development on an approximate 4.4-acre site, formerly used to manufacture industrial metal finishing and metal plating products in the City of Buffalo, which is being managed under the NYSDEC BCP. Project involvement began after the remedial investigation was completed by another consultant and issues arose with the progress of the project. Responsibilities included preparation and implementation of Interim Remedial Measures (IRM) to address hazardous building materials contaminated from previous operations prior to building demolition, delineation, and removal of soil/fill contamination throughout Site to allow construction activities to continue, and preparation of an approvable IRM/Alternative Analysis (AA) report. A Remedial Action Work Plan (RAWP) was prepared and implemented which involved implementation of an enhanced reductive dichlorination groundwater remedy to address CVOCs identified in fractured bedrock, and oversight of earthwork construction activities during redevelopment. The groundwater remedy has reduced source area groundwater concentrations by 90% and a Certificate of Completion is anticipated in 2024. SMP and FER preparation are underway and post-Certificate of Completion performance monitoring will be ongoing.
- Senior Project Manager responsible for implementation of SMP requirements during redevelopment of an 87-acre site formerly owned and operated by two steel manufacturing companies from 1906 to the 1980s. Redevelopment consisted of the construction of a 1.2 million-square-foot solar panel and battery system manufacturing. During the 26-month long project, responsibilities included: oversight of subsurface activities to assess soil/fill for potential impacts, on-site reuse, or off-site disposal; verify import materials used for

construction of the cover system (engineering control) were suitable for use; assistance with interior water damage/mold related issues during building construction; stormwater pollution prevention plan (SWPPP) inspections and reporting; implementation of the community air monitoring program (CAMP); observation the cover system installation; and assistance with management of technology enhanced naturally occurring radioactive material (TENORM) that was encountered. TENORM was identified in the slag material generated during redevelopment and required the development of an on-site reuse work plan and NYSDEC Part 380 variance application, which was the first ever written and employed in New York State. Approximately 34,000 cubic yards of soil/fill containing slag were generated, stockpile, assess for on-site reuse or off-site disposal. The Variance and Reuse Plan saved the project approximately \$10 million dollars in off-site disposal costs.

- Senior Project Manager/Principal Geologist for investigation, remediation and redevelopment of a 2.1 acres property containing a 617,000 square foot manufacturing building that was formerly used for windshield wiper manufacturing in the City of Buffalo, which is being managed under the NYSDEC BCP. Responsibilities included preparation of investigation and remedial work plans, oversight of technical field staff and subcontractors during investigation and remediation, SMP and FER preparation. Remedial actions included removal and management PCB-impacted (non-hazardous and TSCA) building materials, injection of groundwater amendments to further aid in the breakdown of CVOCs present in the groundwater, removal of hydraulic lifts, treatment, and discharge of approximately 150,000 gallons of water present in a sub-basement, and management of impacted soil/fill generated during redevelopment (building foundation alterations). The Site received its Certificate of Completion in 2019, and SMP implementation during redevelopment has occurred from October 2022 through April 2024. The redevelopment as residential apartments is scheduled to open in September 2024. Post-COC monitoring and annual reporting is on-going.
- Senior Project Manager for redevelopment of a contaminated hotel site in downtown Corning, NY. Prior to our involvement, fill material (ash, slag, glass cullet, refractory brick associated with glass manufacturing waste) deemed unsuitable for construction of the hotel was identified, inadvertently excavated from the Site, and taken to eight (8) off-site properties for reuse. Subsequent testing at the Site determined that the fill material contained hazardous levels of metals and elevated SVOCs and could not be used as fill material. NYSDEC, though an Order on Consent, required the extent of on-site fill material investigated and materials taken off-site would require excavation and landfill disposal. Responsibilities included: preparation and implementation of the on-site Site Investigation Work Plan; oversight of field staff and subcontractors; preparation of the Site Investigation/Alternatives Analysis (SI/AA) Report; preparation and implementation of the On-Site and Off-Site IRM Work Plans; preparation of the on-site SMP and FER; implementation of SMP and documentation of activities during redevelopment activities; and preparation of the Off-site CCRs documenting remediation of the 8 off-site properties (e.g., excavation, removal, landfill disposal of over 5,000 tons of fill contain glass manufacturing waste). The NYSDEC Consent Order for the Site was terminated. The hotel construction was completed and opened in July 2018. Annual inspections and reporting are on-going.
- Senior Project Manager for the investigation and remediation of a former gasoline and service station in the City of Buffalo which was redeveloped under the BCP as a 5-story residential apartment building. Project involvement began with due diligence and included all phases of the NYSDEC BCP including BCP application; on-site remedial investigations; removal of approximately 3,000 tons of contaminated soil/fill to achieve Part 375 Unrestricted Soil Cleanup Objectives (USCOs), removal of six USTs and their associated contents, two hydraulic lifts, and preparation of the FER. Certificate of Completion was issued in 2018 and building construction began in 2019.

#### PROFESSIONAL AFFILIATIONS

Buffalo Association of Professional Geologists