



PROFESSIONAL PROFILE



Brian Klaus, LSP

Senior Geologist I

EXPERIENCE SUMMARY

Prior work experience includes Senior Geologist (2019-present), Project Geologist (2017-2019), and Staff Geologist (2013-2017) at Roux; Intern, Chartis (AIG), Boston, Massachusetts (2012); and Intern, Department of the Environment, Community and Local Government, Dublin, Ireland (2011).

TECHNICAL SPECIALTIES

Mr. Klaus has over ten years of experience conducting environmental site assessments, environmental due diligence assessments, and designing and implementing environmental site investigation and remediation projects. These experiences are focused around identifying, assessing, and remediating environmental contamination in soil, groundwater, and soil vapor. Mr. Klaus also has significant experience managing remedial construction and soil excavation, including management of subcontractors, waste characterization, regulatory reporting, and community air monitoring. Mr. Klaus also has experience with implementing hazardous building materials surveys in support of real estate transactions.

REPRESENTATIVE PROJECTS

- **Superfund Site, Massachusetts.** Represented a confidential major developer client throughout the acquisition of an Environmental Protection Agency (EPA) National Priorities List (NPL) Superfund Site. As part of the acquisition process, provided environmental support throughout the client's due diligence process and participated in negotiations with seller and EPA. Environmental services provided included due diligence support, the development and costing of a remediation approach that was in line with the EPA site goals and client's desired cost range and timeline. Following client acquisition, Roux managed environmental characterization and remediation activities at the Site, and continued to interface with EPA and Massachusetts Department of Environmental Protection (MassDEP).
- **Urban Redevelopment, South Boston, Massachusetts.** Managed overall environmental services in support of redevelopment across multiple parcels encompassing approximately 12-acres and multiple environmental releases. Managed waste characterization and waste profiling efforts, Massachusetts Contingency Plan (MCP) reporting, and environmental investigation activities, all of which were performed on an expedited schedule to meet property redevelopment goals. In addition to environmental releases being regulated by the Massachusetts Department of Environmental Protection (MassDEP), portions of the project were subject to USEPA Toxic Substances Control Act (TSCA) regulations due to elevated levels of polychlorinated biphenyls (PCBs) present in environmental media.
- **Industrial Redevelopment, Chelmsford, Massachusetts:** Senior Project Manager for redevelopment project transitioning a commercial property in a municipally designated groundwater resource area impacted by PFAS. Redevelopment was downgradient of two industrial manufacturers with known VOC releases to groundwater, necessitating the need to manage soil and groundwater during redevelopment activities due to migrating contamination. Performed due-diligence site characterization and identified PFAS contamination migrating onto the development property. Achieved regulatory compliance through a Downgradient Property Status, thereby providing protection from potential future liability. Actively participated in complicated municipal permitting process and worked closely with municipal governing boards including Planning, Health, Conservation Commission and Water to design and permit the redevelopment resulting in obtaining final building permit approval.

CONTACT INFORMATION

Main: (781) 569-4000
Direct: (781) 569-4039
Email: bklaus@rouxinc.com
Website: www.rouxinc.com

200 Summit Drive, Suite 500
Burlington, MA 01803

EDUCATION

BS, Environmental Geosciences,
Boston College, 2013
BA, Communications, Boston
College, 2013

PROFESSIONAL LICENSES

Massachusetts Licensed Site
Professional #2540

Roux is currently assisting the client with state regulatory compliance related to the management of impacted soil and groundwater from off-site sources during the foundation and utility construction phases of the project to ensure the proper management of contaminated environmental media during construction.

- **Industrial Redevelopment, Malden, Massachusetts:** Senior Project Manager for redevelopment project transitioning a former motel property into an industrial warehouse property. During redevelopment activities, PCBs were identified in soil above applicable regulatory standards, resulting in a regulatory notification to MassDEP. Roux assisted in managing contaminated soil during redevelopment and assisted in overseeing and coordinating off-Site disposal of contaminated soil. Roux performed a Risk Characterization to evaluate Site conditions, and successfully demonstrated a condition of No Significant Risk, which ultimately supported a Permanent Solution with No Conditions.
- **Phase I Environmental Site Assessments.** Conducted, oversaw, and managed hundreds of Phase I Environmental Site Assessments in accordance with ASTM E1527-13 throughout New England, New York, and New Jersey. Property types included large retail shopping centers, industrial facilities, and residential properties. Associated activities included agency contact, database management and interpretation, site inspections, identification of recognized environmental conditions (RECs), and report preparation. Based on Phase I findings, provide recommendations to clients, legal counsel, and lenders on potential liabilities and, and recommendations for additional investigation based on Client specific considerations.
- **Environmental Consulting and Support, Massachusetts Municipality.** Provided environmental consulting support to a local municipality associated with reviewing the appropriateness and adequacy of MassDEP MCP response actions performed by the Licensed Site Professional (LSP) of record. Specifically, provided technical support in demonstrating the need for the collection of PFAS groundwater samples based on historic Site use and the location of the Site within a drinking water protection area.
- **Environmental Permitting Support, Miami, Florida.** Senior Project Manager providing environmental permitting support for marine improvements at an industrial marine facility. Roux performed a submerged aquatic vegetation survey utilizing an underwater drone to evaluate the presence of endangered species, provided environmental support to the engineering design team during, and managed the environmental permitting process to obtain local, state, and federal permits. As part of the permitting process, routinely interfaced with permitting agencies to explain the goals of the project, construction methods and means, and highlight mitigation measures to minimize the impact to aquatic life.
- **Demolition and Redevelopment Support.** Managed numerous hazardous building material surveys (asbestos-containing building materials [ACBM], lead-based paint [LBP] and PCBs) in support of demolition, as well as in support of due diligence for real estate transactions. Surveys often conducted on an aggressive schedule to meet client deadlines. Surveys included subsequent PCB substrate sampling, and consulting on approaches for bulk product removal/remediation of PCB impacted materials. Coordinated and oversaw abatement measures with strict timeframes. Associated activities included daily reporting, oversight of subcontractor field crews, and coordination with property tenants.
- **Petroleum Bulk Storage Facility, Albany, New York.** Provided remediation management, regulatory interfacing and reporting for bulk petroleum terminal in upstate New York. Remediation includes recovery of separate phase petroleum hydrocarbons through passive pumping and the installation and operation of an air sweep/soil vapor extraction system.
- **Retail Center, Enfield, Connecticut.** Implemented remedial responses to a CT DEEP Significant Environmental Hazard (SEH) created by a chlorinated solvent plume located beneath an active restaurant after original consultant's remedy was unsuccessful. Response actions included investigation to properly identify the source and source extents, design and installation of a sub-slab depressurization (SSDS) system, and the design and implementation of an in-situ chemical oxidation (ISCO) injection system infrastructure beneath the restaurant. Chemical injections and air sparging technologies were implemented to address the source zone of contamination. Work was completed on an aggressive schedule to reduce the impacts to restaurant operations. Work included remedial system infrastructure installation, abatement of ACBM floor tile, chemical injections, air sparging, environmental monitoring, and regulatory coordination and reporting.
- **Former Industrial Waste Discharge Site, Middleborough, Massachusetts.** Project manager for the investigation and MCP reporting of a 26-acre Site. The Site featured three ponds that received industrial wastewater discharge between approximately 1900 and 1983. Prior to Roux's involvement, the Site was in a state of regulatory non-compliance with MassDEP. Designed, implemented, and managed investigation, response, and assessment actions, including human health and ecological risk assessments, in order to bring the Site back into a state of regulatory compliance.
- **Brownfields Cleanup Program, Olean, New York.** Project manager for a 9-acre NYSDEC Brownfields Cleanup Program

Site, located on one of the first oil storage and refining centers in the Northeast. Project included the design and implementation of a 25,000 cubic yard soil in-situ stabilization, and excavation and backfill of approximately 75,000 cubic yards of soil. Work included engineering design, development of an excavation and solidification sequencing plan to minimize and control vapors and odors; and installation QA/QC and validation. Work conducted to allow for redevelopment of property for an industrial client.

- **Bulk Storage Facility, East Providence, Rhode Island.** Designed and implemented a direct sensing investigation to identify the extents of LNAPL at a petroleum bulk storage terminal in order to evaluate additional LNAPL recovery potential. Technologies utilized include Laser Induced Fluorescence (LIF) and Hydraulic Profiling Tool (HPT), as well as traditional direct-push soil borings. Delineation efforts reduced the estimated size of the LNAPL plume from 24 acres to 13 acres.
- **I-495 Roadway Spill, Chelmsford, Massachusetts.** Managed and oversaw response actions and remediation of a roadside diesel spill resulting from a vehicle accident involving an international shipping clients' fleet vehicle. Managed all aspects of remediation, including subcontractor management, MCP reporting, and Massachusetts Department of Transportation (MassDOT) coordination. Spill was located directly above a fiber-optic cable, which required additional coordination with the fiber-optic company.
- **Environmental Consulting and Support, Massachusetts Municipality.** Provided environmental consulting support to a local municipality by monitoring groundwater proximal to the Town's public water supply wells. Based on groundwater monitoring data, advised the Town of groundwater conditions, and provided recommendations to prevent 1,4- dioxane from entering the public water supply wells.
- **Bulk Storage Facility, East Providence, Rhode Island.** Oversaw the installation of an Engineered Natural System (ENS) to treat shallow groundwater and surface water in East Providence, Rhode Island. Provided oversight of installation of permeable reactive barrier, subsurface flow constructed treatment wetland, and contingency treatment system. Work was completed to fulfill the requirements of the Rhode Island Department of Environmental Management.
- **Field Manager, Rutland, Vermont.** Field Manager for a remedial excavation project to remove 11,000 tons of petroleum impacted soil from 3 excavation areas to depths

exceeding 30 feet below grade. Responsible for overseeing subcontractors and ensuring the work and the support-of-excavation system installation were completed in accordance with engineering specifications.

- **Field Manager, Brooklyn, New York.** Field Manager for large redevelopment project encompassing approximately 22 acres. Project included coordination and oversight of in situ waste characterization sampling, excavation, and proper disposal of soil. Managed field personnel and subcontractors for characterization of 250,000 cubic yards of soil. Provided excavation and construction oversight of NYCOER E-designation site with the removal of 20 unknown USTs and off-site disposal of 300,000 tons of soil. Inspected SSDS infrastructure and vapor barrier installation as part of remedial implementation.
- **Field Sampling Team Leader, Los Angeles, California.** Field Sampling Team Leader for residential surficial soil assessment throughout the County of Los Angeles, California. Responsible for implementing DTSC Work Plan in conjunction with LA County personnel. Soil was analyzed utilizing X-ray fluorescence (XRF) equipment to provide real- time results. Results were then communicated to homeowners via public health nurses, in conjunction with LA County.
- **Field Manager, Manhattan, New York.** Field Manager for a NYCOER E-designation redevelopment site. Responsibilities included excavation oversight and waste disposal oversight of 20,000 tons of soil, Community Air Monitoring implementation, as well as waterproofing and vapor barrier inspections as part of remedial implementation.
- **Field Manager, Multiple Sites, New York City.** Field Manager for numerous NYCOER Remedial Investigations and NYSDEC Brownfields Cleanup Program Remedial Investigations in the five boroughs of New York. Responsibilities included the installation of soil borings, monitoring wells, and soil vapor points, in situ waste characterization, health and safety oversight, Community Air Monitoring implementation, and report preparation.

PROFESSIONAL TRAININGS

OSHA 40-Hour HAZWOPER Training, (yearly 8-hr refreshers)

OSHA 10-Hour Construction Outreach Training

First Aid and CPR Certified

Loss Prevention System (LPS) Manager/Supervisor Certification
Transportation Worker Identification Credential (TWIC)
Certification