# PROFESSIONAL PROFILE


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**EDUCATION**
MA, Geology, City University of New York at Brooklyn College, 1987
BS, Geology, Long Island University at Southampton, 1984

**PROFESSIONAL LICENSES**
NYS Licensed Professional Geologist (license #000072)

## Scott J. Glash, PG

### Principal Hydrogeologist

**EXPERIENCE SUMMARY**
Over thirty years of experience: Principal Hydrogeologist at Roux, Senior Hydrogeologist at Roux, and Project Hydrogeologist at Geraghty & Miller.

**TECHNICAL SPECIALTIES**
Insurance Claim Support – Environmental Claim Evaluations, Risk Loss/Control Investigations, Settlement Support, Cost Estimating, Invoice Review, Cost Allocation, and Cost CAP Analysis. Project Management of Cost Allocation, Release Timing, Hydrogeologic Investigations, Voluntary Cleanup/Brownfield Sites, and at RCRA, CERCLA and ISRA sites. Development and preparation of RI/FS work plans, technical specification documents, and other compliance reports. Supervision of well drilling, construction, groundwater and soil sampling, and borehole geophysical methodologies.

**REPRESENTATIVE PROJECTS**

**Support for Insurers**

- Principal-in-Charge of Underwriting/Loss Control Evaluations for 10 insurance carriers that underwrite Environmental Legal Liability (ELL), Contractor Pollution Legal Liability (CPL), Pollution Legal Liability (PLL), and General Liability Environmental Exposures (GLEE). The evaluations include the assessment of fixed-site or portfolio properties (up to 600) located throughout the US, Canada, Europe, Latin America, and Asia. The evaluation also includes the identification of known and unknown pollution conditions, development of significant data gaps, assessment of insurance risks (remediation, bodily injury, or property damage), and how the identified risks impact both the SIR ($50K to $500K) and policy limits ($25MM to $100MM per policy). Majority of market evaluations focus on energy, manufacturing, hospitality, health, and residential/commercial.
- Principal-in-Charge of Combined Policy Loss Control Evaluations, opining on General Liability, Professional Liability, Premises Liability, Auto Liability, Contractors Pollution Liability, and Third-Party Liability. Majority of evaluations are conducted via Telephone Surveys.
- Principal for multi-carriers regarding defense and indemnity cost estimates and allocation for hundreds of sites nationwide and international. Support includes identifying known and unknown environmental conditions, risk severity evaluations, SIR evaluations, insured responsibility, unit cost reasonableness, source and timing, and preparation of settlement cost estimates.
- Principal and Project Manager for a program of field evaluations of facilities applying for environmental liability insurance. These evaluations were intended to identify existing pollution conditions, analyze historic environmental compliance records, evaluate the facility's current environmental management practices and compliance, and evaluate the potential dollar liability associated with medium-case and worst-case releases from the facilities. Performed evaluations for several major U.S. environmental liability carrier.
- Principal and Program Manager for several national insurance companies wherein Roux Associates evaluates environmental impacts (including timing of release[s]) and potential remedial costs (including cost allocation) associated with home fuel releases, chemical spills, truck accidents, and releases to waterways. All evaluations are designed to limit liability to the insurer while providing appropriate support to fulfill the environmental responsibilities incurred by the insured.

- Principal for a spill response program for several insurance companies. Manages the response to oil and chemical spills in the eastern U.S. Goal of this program is to provide on-site presence for insurer in order to limit future exposure and maintain control of spill contractor.
- Principal and Project Manager for a program in support of national insurer's remediation cost cap insurance program. Evaluated project proposals to evaluate potential liabilities and unknowns associated with fixed-price remediation programs proposed by other consulting firms. Tasks involved included evaluation of proposed remediation strategy, development of an independent cost estimate, and evaluation of alternative and worst-case cost scenarios.
- Principal-in-Charge of 300 Environmental Insurance Claim Evaluations per year for Fortune 500 Company. Evaluations include various types of sites: UST System Spills, Manufactured Gas Plant Sites, Oil Refineries, Power Plant Sites, School Construction Sites, Landfills, and Chemical and Manufacturing Facilities throughout the United States. Responsibilities include leading a team of seven environmental specialists; historical evaluations; spill source evaluations; past and present investigation/remediation cost evaluations ($100,000 to more than $100MM); past and current investigation/remediation invoice evaluations (reasonable and customary); settlement support; risk management; and cost cap analysis.
- Project Principal for a storm sewer rehabilitation program (15,000 LF) in Maywood, IL for a leading utility provider utilizing Cast-in-Place-Piping (CIPP). Project included the design and construction of 2 oil-water separator systems to treat a combined flow of 7,500 gpm at 2 NPDES outfalls for management of PCB subsurface and stormwater potential impacts.

### Site Investigation and Remediation

- Project Manager responsible for the implementation of the Building Demolition Program at the Nassau Metals facility in Staten Island, New York. Responsibilities also included project management of lead and asbestos abatement programs, a UST removal program and the preparation of weekly reports and a final completion report.
- Managed multi-phase RI/FS at an aviation manufacturer with PCE and TCE contaminated groundwater at 500 feet bls. Supervised deep well drilling and groundwater sampling, negotiated with the NYSDEC, and prepared monthly RI reports. In addition, negotiated with the NYSDEC to use existing pumping wells used for cooling as an interim remediation. Also, identified that an upgradient USEPA Superfund Site contained the same constituents and was a probable contributor.
- Project Hydrogeologist/Site Manager for a multi-phase RI/FS at an 18-acre industrial manufacturing facility in Pennsylvania. The scope of work consisted of the installation of overburden and bedrock monitoring wells, quantitative soil-gas surveys, the collection of hydrogeologic data to characterize groundwater flow patterns and quality, and surface water and sediment sampling to determine the nature and extent of past releases to media.
- Managed multi-phase ECRA/ISRA RI/FS at a major chemical company in Elizabeth, New Jersey. Soil VOC impacts were delineated and remediated by excavation. The groundwater plume was remediated through a pump out treatment system. Responsibilities included well drilling, soil and groundwater sampling in compliance with ECRA guidelines, and the preparation of monthly and quarterly reports.
- Managed multi-phase RFI/CMS at a hazardous waste site in Bridgeport, New Jersey. Responsibilities included: drilling, soil and groundwater sampling in compliance with USEPA and NJDEP regulations; preparation of a RCRA Facility Investigation (RFI) report; and negotiating with the USEPA and NJDEP on behalf of this hazardous waste site. Negotiated and constructed a pump and treat abatement system as the groundwater remedy at the Site. In addition, 10 lagoons, approximately 50 by 100 feet of sludge were remediated by excavation.
- Project Manager for land spread soil stockpile investigation contaminated with heavy fuel oils for a major utility company in New York. Responsibilities include delineating the nature and extent of the soil stockpile; determining if there has been impact to groundwater; and negotiating cleanup remedies with the NYSDEC.
- Project Manager for litigation support concerning a former gas manufacturing facility in New Jersey. Responsibilities include compilation of all existing data, depositions and graphical representations of soil and groundwater data.
- Project Manager for a UST spill investigation in New York. The scope of work consisted of the coordination of monitoring well installation, groundwater sampling, and the collection of hydrogeologic data to characterize groundwater flow patterns and quality to identify potential source areas. In addition, an off-site nature and extent investigation was implemented.
- Managing a multi-phase investigation in accordance with a NYSDEC Voluntary Cleanup Agreement for a major pharmaceutical plant in Brooklyn, New York. Negotiated Voluntary Cleanup Agreement with the NYSDEC in Albany, New York. First phase of investigation included determining the nature and extent of soil and groundwater contamination. Based on the results, negotiated with the NYSDEC to only remove "hot spots" (i.e., characteristically hazardous waste)

and leave residual contamination in place. The second phase included the removal of "hot spots" as part of an Interim Remedial Measure. This strategy permitted the client to satisfy the regulatory requirements for a significantly lower overall cost (i.e., than being placed on the State Superfund List), and permitted the site to be further remediated for redevelopment/beneficial use using a risk assessment coupled with the potential future use of the Site. In addition, negotiated with the NYSDEC through a paper study (i.e., hydrogeologic assessment) to not investigate groundwater (i.e., upper glacial aquifer) due to the presence of a thick, continuous clay layer. Overall, due to the vision implemented during the negotiation of the Voluntary Cleanup Agreement through the completion of the IRM, approximately $10 million was saved.

- Managed a multi-phase RI/FS at a solvent (e.g., TCE, PCE) contaminated aerospace facility in Bethpage, New York. Solvents (e.g., TCE, PCE was detected in the soil and groundwater. Responsibilities included: preparation of Work Plans, negotiations with the NYSDEC Region 1, soil and groundwater investigation, hot spot remediation of hazardous waste and participated in public meetings. The second phase of the RI included off-site groundwater investigation, which included the installation of monitoring wells to a depth of 300 feet. Provided evidence that the solvents (e.g., TCE, PCE) were migrating on-site from an upgradient source.
- Managed multi-phase RI/FS that included the determination of the nature and extent of impacted soil and groundwater in the Upper Glacial and Magothy aquifers at a CERCLA landfill in Long Island, New York. Responsibilities included negotiations with the NYSDEC-Region 1, Work Plan preparation, investigation and "hot spot" removal as the remedial option.
- Managed a multi-phase RI/FS at a former major pharmaceutical plant in Hicksville, New York. Responsibilities included preparation of Work Plans, participation at public meetings, investigation-nature and extent of soil and groundwater, negotiated a no further action for groundwater and negotiated a no further action for a soil area that contains contaminants above the NYSDEC guidelines. However, a limited risk assessment was completed to demonstrate to the NYSDEC that a no further action saved this client approximately $5 million for groundwater treatment and $1 million for soil removal.
- Managed a multi-phase RI/FS at an 18-acre active gas meter manufacturing facility in Pennsylvania. The RI included the determination of the nature and extent of impacted soils and groundwater in the overburden and underlying fractured bedrock. A soil gas survey was used as a preliminary screen to identify volatile organic contaminant "hot spots" in soil and groundwater. A total of 40 monitoring wells and 60 soil borings were required to develop a complete understanding of the complex hydrogeologic environment beneath the site. Chemicals of concern at the site included organic solvents (e.g., PCE), PCBs and metals. DNAPL was encountered beneath a former TCE storage tank under the facility. Field data indicated that DNAPL had migrated down through the overburden and was potentially present in the underlying bedrock. As part of the RI performed for this site, Roux Associates evaluated the efficacy of the existing pump and treat system present at the site in capturing and remediating groundwater contamination both in the overburden and bedrock aquifer.
- Managed soil and groundwater investigation for major oil company in Brooklyn, New York. The objective of investigation was to provide evidence to the NYSDEC that the contamination downgradient of project Site was not the source. Results of investigation concluded that the downgradient property did not receive contamination from major oil company's Site. The NYSDEC rescinded their order for remediation.
- Managing a multi-phase investigation in accordance with a NYSDEC Voluntary Cleanup Agreement for a major precious metals manufacturer in Staten Island, New York. Negotiated Voluntary Cleanup Agreement with the NYSDEC. The project included a comprehensive soil, sediment, surface water and groundwater sampling program. The investigation results were submitted to the NYSDEC for review, and NYSDEC approval is pending.
- Managing a multi-phase investigation in accordance with a NYSDEC Voluntary Cleanup Agreement for a major package shipping carrier in Brooklyn, New York. Negotiated Voluntary Cleanup Agreement with the NYSDEC. The project included a comprehensive soil, sediment, surface water and groundwater sampling program. The investigation results were submitted to the NYSDEC for review, and NYSDEC approval is pending.
- Managing a multi-phase Brownfields investigation for the redevelopment of a former US Department of Defense Site to waterfront, upscale housing in Long Island, New York. This investigation included determining the nature and extent of soil and groundwater contamination. The investigation is currently being performed with NYSDEC oversight to verify compliance with all work activities. The NYSDEC has agreed to utilize a risk assessment to determine the level of residue contamination allowed to remain on-site with an intended residential future use.
- Supervised well installation, soil and groundwater sampling, and soil-gas surveys; performed aquifer testing and analysis of data; and prepared completion reports at many sites in New York and New Jersey.
- Performed oversight supervision for a soil boring program at a CERCLA chemical site in Bridgeport, New Jersey.

Responsibilities included: determining if soil and groundwater investigation methodologies were being implemented according to USEPA requirements.

- Managed multi-phase RI/FS that included well installation, groundwater and soil sampling, and soil-gas surveys at a CERCLA landfill site in Syosset, New York. Responsibilities also included the presentation of data to the NYSDEC and public.
- Project and Field Manager for the removal of underground storage tanks in accordance with NYSDEC regulations, well installation, and preparation of compliance reports.

**PROFESSIONAL AFFILIATIONS**

American Institute of Professional Geologists, No. 8960

Society of Environmental Insurance Professional