

**TECHNICAL SPECIALTIES**

Development, implementation and management of comprehensive site investigations, implement remedial work plans, environmental investigations, and construction management.

Development and implementation of project/regulatory closure strategies for challenging sites in New England and New York.

Management and support for construction/redevelopment projects including Brownfields regulatory stewardship. Regulatory liaison and customer support with extensive experience in New England and New York.

Investigation and remedial implementations of impacted sediments including development and implementation of investigations in navigable waterways in New England. Scopes have included conventional sediment sample collections as well as innovative qualitative analysis (Sediment Profile Imaging). Sediment remediation scopes have included dredging, sheet pile installations, and engineered natural systems.

Management of environment and construction projects for oil and gas industry including pipeline maintenance and repairs, facility compliance, engineering support and construction management in MA, CT, RI, NY and NJ.

Management and support of litigation projects for both petroleum and industrial clients. Currently technical expert for major oil company on challenging petroleum site investigation and remediation strategies.

Management and strategic support for challenging insurance claim cases in Massachusetts and New Hampshire. General duties performed have included both federal, state and local reporting, project and construction management, litigation support, soil/sediment excavation/dredge/removal management, emergency response management, soil and groundwater sampling, soil gas surveys, stream gauging, sediment investigations, soil immunoassay/XRF testing and hazardous materials surveys/ demo management, GIS data evaluations and mapping, UXO geophysical surveys, treatment system installations, Cone Penetration Testing, phytoremediation implementation, data tabulation and report preparation.

**EXPERIENCE SUMMARY**

Vice President – Roux Associates, New England Office (current)

Principal / Office Manager – Roux Associates, New England Office (2012-2017)

Senior Hydrogeologist/Project Manager, Roux Associates (2005-2012)

Project Hydrogeologist, Roux Associates (2001-2005)

Associate Hydrogeologist, Aqua Science Engineer, Inc. – San Francisco, CA (1998-2001)

Associate Geologist, Parsons ES - Boston, MA (1997-1998)

Emerald Excavating – Plymouth, MA (1993 – 1997)

**CREDENTIALS**

B.S. Environmental Science, Springfield College, 1997

Operator Qualification (OQ) Training (several tasks)

OSHA 29 CFR 1910.120 40-Hour Safety Training

OSHA 29 CFR 1910.120 8-Hour Annual Refresher

Confined Space Safety Training

DOT HM-181/126F Certificate

Red Cross Certified, First Aid and CPR

ExxonMobil Loss Prevention System Training

Radiation Safety and monitoring/measurement

**KEY PROJECTS**

- Project Principal, Major Oil Company. Manager of a complex dredging project on the Allegheny River to remove petroleum impacted sediments. Included the Site Investigation, Remedial Investigation, Alternative Feasibility Study, regulatory permitting and planning for upcoming dredge of 1,000 tons of sediment. Project requires the relocation of the largest documented population of a federally listed endangered mussel species.
- Project Principal, Major Oil Company, Active Bulk Storage and Pipeline Facilities. Manager of environment and construction projects at both active terminals and pipeline facilities on the east coast (Florida to Maine). Work scopes have included various types of permitting, pipeline corrosion/dent inspections and repairs, OWS design and installation, Method 21/LDAR inspections, AST annual inspections, building upgrades including demo surveys and general construction management, containment dike surveys and secondary containment evaluations and designs. Safety awards received by Major Oil Company multiple times over the last several years.
- Project Principal, Major Oil Company, Pipeline facilities. Provided engineering and technical support for securing > 100 wetland and various construction permits (state, local, federal). Developed risk reduction plans, engineering design for stream & RR crossings. Work scopes included assisting with foreign lines, dent anomalies (>1,000). Permits include CWA Order of Conditions, DOT access, road opening/construction, NHESP VMP & OMP, Water Quality Cert., and US Army Corp.
- Project Principal, Major Petroleum Co., Former Petroleum Refinery, Upstate New York. Site is one of the 1<sup>st</sup> refineries in the US, at one time encompassing 700+ acres of land now in various stages of investigation, cleanup and redevelopment. Roux currently has several roles and manages many aspects of the overall project. Serving as technical consultant for this client reviewing all regulatory submittals and overall

strategy to achieve site closure through both the NY State Brownfields and Spills Programs. Serves as liaison to regulators, local stake holders and construction/redevelopment firms. Additional value added has included significant identified cost efficiencies during both remediation and redevelopment.

- Expert/Technical Witness and Project Principal, Major Oil Company, Rochester New York. Oversaw large-scale investigation of several 100+ acre former refinery. Assisted with 3<sup>rd</sup> party negotiations and regulatory liaison.
- Project Manager, Oil Company, Albany New York. Project Manager in-charge for large scale dredging project on the Hudson River to remove petroleum impacted sediments and soil. Included the removal of 3,000 tons of sediment, installation of sheet pile wall, carbon trench and phyto-remediation plot. Work performed in accordance with Stip. Agreement with NYSDEC. Included various stages of client advocacy. Project was completed on-time and under budget resulting in significant cost savings to the client.
- Project Manager, Oil Company, Newington, New Hampshire. Project Manager in-charge for large scale remediation and regulatory closure of former petroleum terminal on navigational waterway.
- Project Principal, multiple spill sites for Insurance Co., New Hampshire and Massachusetts. Assist local insurance company with complex emergency response spills including development of closure strategy and oversight/management of response actions.
- Project Manager, Demolition of Former Bulk Storage Facilities, New England and New York. Oversaw and managed team during the demolition of several facilities including completing the hazardous materials surveys, ACM removal, building demo and soil excavations.
- Litigation Project Manager, Several Projects. Managed litigation teams for several large-scale litigation, allocation and facility assessment projects. Included the development and design of significant GIS and database systems to assist in the review of large quantities of both analytical and geographic information.
- Project Manager for several secondary containment system evaluation projects on petroleum bulk storage facilities in several states. Included both aerial and conventional surveys/mapping, use of 3D AutoCAD/GIS for evaluating secondary containment requirements in accordance with local, state and federal programs. Project work also included the development of complex containment system designs and engineering oversight.

- Project Manager, Major Oil Company, Everett Massachusetts. Project Manager in-charge for massive exploration, investigation and rehabilitation of storm water collection system for former refinery and active petroleum bulk storage facility. Included the mapping of 5 miles of piping, extensive reconstruction and abandonment of large-scale and deep structures in an active loading rack and terminal. Included the oversight of numerous subcontractors performing permit-required CSEs with Marine Chemist certs.
- Field Manager, USARMY, Seneca, New York and Falmouth, Massachusetts. Oversaw numerous geophysical surveys, locating unexploded ordinance (UXO) and radioactive materials at a former US Army Depot (storing tactical nuclear weapons) and at on a former anti-tank weapons range. Responsible for performing extensive and thorough geophysical surveys using GPS and GIS mapping. Required compliance of strict UXO and radiation safety programs.
- Project Manager, Oil Company, upstate New York. Project Manager in-charge and point of contact with NYSDEC project managers for emergency response following release of 30,000 gallons of Jet Fuel from a bulk storage facility in New York. Oversaw initial cleanup, following by rapid subsurface investigation to identify leak location and product plume.
- Task/Field Manager, Major Oil Company, Several locations. Manager for multiple bulk petroleum storage and distribution facilities/terminals located in New England and New York. Schedule, coordination, and oversight of all field operations including remediation system O&M, subsurface investigations, product recovery, surface water sampling, groundwater sampling events, waste management including soil excavation/removal.
- Hydrogeologist/Field Manager, Stratford, Connecticut. Site Assessments for Major Design Plant including Phase II Site Assessments of various industrial properties. Assessments included property inspection and review of state and federal documents, aerial photographs and environmental databases. Historical land use research and interviews with property occupants and municipal personnel were conducted as part of these assessments.
- Field Manager, Retail Service Station, Manteca, CA. Oversaw down-gradient groundwater investigation, domestic well sampling, cone penetration testing.