



PROFESSIONAL PROFILE



Kathleen Buxton, PG

Principal Geologist

CONTACT INFORMATION

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EDUCATION

BS, Geology, State University of
New York at Albany, 1998

PROFESSIONAL LICENSES

Texas Professional Geoscientist
#3393

Louisiana Professional
Geoscientist #0460

EXPERIENCE SUMMARY

Over twenty-five years of environmental experience working in many areas of the environmental industry including managing and completion of investigations of oil and gas exploration and production facilities, Phase I Environmental Site Assessments; environmental surface and subsurface soil and groundwater investigations and remediation; aquifer characterization and groundwater modeling, Affected Property Assessment Reports, and Risk Evaluation and Correction Active Program Reports. She has directed the implementation of contaminated soil removal, installation of complex recovery systems, site management, excavation oversight, release response, product recovery methods including bailing, pumping, groundwater sampling, domestic water well sampling, natural gas sampling and air sampling.

Principal Geologist at Roux; Senior Project Manager at EnTech Consultants, Project Geologist and Project Manager Premier Associates and EarthCon Consultants, Project Manager at ATC Associates and Staff Geologist at ENSR Corporation.

TECHNICAL SPECIALTIES

Ms. Buxton's technical specialties include providing environmental consulting services and strategic planning to the oil and gas industry. Ms. Buxton's responsibilities involve developing, planning, and implementing large complex environmental projects for petroleum and energy clients. She has directed assessments and remediation projects at numerous terminals, pipeline facilities, and former and active refineries. Ms. Buxton has managed projects to develop, plan and implement strategies and procedures to address environmental compliance at locations from industrial facilities to leaking underground storage tanks, saltwater disposal wells, oil and gas production wells, historical power facilities, and public water facilities. She has experience with the initial design, installation, operations, maintenance, and permitting for recovery systems at facilities ranging from historical pipeline releases to industrial refining facilities. She has overseen recovery systems ranging from two recovery wells to over 20 with depths ranging from 20 feet below ground surface (bgs) to 500 feet bgs and worked on permitting for vapor emissions from recovery systems with pilot test to determine the best control with permit by rule (PBR) for vapor control using activated carbon, internal combustion engines, and air strippers with activated carbon. She has overseen the completion of Spill Prevention, Control and Countermeasure (SPCC) plans for sites ranging from industrial facilities to bulk gathering stations in Texas, New Mexico, Louisiana, Kansas, and Oklahoma.

Ms. Buxton is licensed as a Professional Geoscientist in Texas and Louisiana. Ms. Buxton has managed sites in the US including remediation of service stations, oil and gas production facilities, saltwater disposal well inspections, property transactions, closed industrial facilities, and historical pipeline sites. Ms. Buxton has worked with the Texas Commission on Environmental Quality, Texas Railroad Commission, Texas Department of Health, Louisiana Department of Environmental Quality, Louisiana Department of Natural Resources, and local regulatory agencies.

REPRESENTATIVE PROJECTS

- Senior Geologist retained by a law firm, on behalf of ranch property owners, to investigate areas of concern (AOCs) at two ranches in west Texas, which were believed to be the result of releases associated with companies conducting oil exploration and production (E&P) activities. Conducted site investigations which involved collecting soil samples to determine the extent of the suspected impacts. As a result of the investigation, Roux identified soils with concentrations exceeding Texas Risk Reduction Program (TRRP) protective concentration levels (PCLs). Impacted areas included pipelines, well pads, and aboveground storage tanks. The ranch owners were reimbursed for the costs of all investigation work, with remediation

conducted and fully funded by the E&P operators. E&P operators were held accountable by the Railroad Commission of Texas.

- Senior Geologist retained by a law firm, on behalf of saltwater disposal owner, to investigate a surface purge that occurred in Oklahoma. Prepared an expert report, rebuttal, and deposed as expert witness for defendant. Reviewed expert reports, rebuttals, economic damages reports, and other environmental reports related to potential impacts of exploration and production activities on the property. Reviewed saltwater disposal well construction materials to show that plaintiff SWD well was not appropriately constructed.
- Senior Geologist retained by law firm to prepare a findings report on behalf of a confidential oil and gas producing client to assist in reducing costs associated with cleanup activities at multi-lease property in southern Louisiana. Reviewed reports prepared by experts to show that the incorrect cleanup standards were being utilized which reduced costs and cleanup areas.
- Senior Geologist overseeing the property transaction of saltwater disposal wells located in Texas and Louisiana. Including the inspection, documentation review, regulatory review, and reporting of findings and conclusions.
- Senior Project Manager overseeing cleanup and closure for a midstream energy company for releases located within Texas, Louisiana, and New Mexico. Oversaw recovery systems ranging from two recovery wells to over 20 with depths ranging from 20 bgs to 100 feet bgs.
- Senior Project Manager for a national client regarding the public water system utilized at the facility to have the PWS licensed and returned to compliance with the TCEQ. Replacement of pumps, tanks, water lines, reporting engineering reports, monitoring reports, operations reports and sampling.
- Project manager for LPST reimbursement sites for a national client. Supervised field technicians, balanced budgets, completed reports for the state and client, updated analytical tables, created tables and maps, proposed additional work at facilities.
- Project Geologist for a refinery, responsible for the installation of monitor and recovery wells. Completed soil and groundwater sampling. Overseeing teams to complete complex groundwater sampling at multiple intervals due to complex chemicals of concern. Completion of quarterly and annual reports for client and regulatory agencies, supporting with budgets and coordination of field activities. Worked on permitting for vapor emissions from recovery systems with pilot test to determine the best control with permit by rule (PBR) for vapor control using activated carbon, internal combustion engines, and air strippers with activated carbon. Installation of recovery system at depths ranging from 100 feet bgs to 500 feet bgs.
- Project Geologist for a natural gas company to complete water well sampling, vapor gas studies, natural gas sampling and developing sampling strategies as part of a litigation team.
- Senior Geologist working on various types of soil sampling including GeoProbe, hand auger and hollow stem dry, wet and air rotary auguring and solid-stem dry auger drill rigs. Routinely oversaw the installation of groundwater monitoring wells, and routinely performed well development, fluid elevation gauging and groundwater sampling. Have an in-depth knowledge of groundwater elevation contour maps, cross sections, and contamination concentration maps. Responsible for the management of soil sample collections, field screening for organic vapors, packaging samples for analytical testing, and overseeing the grouting and waste management activities for projects.
- Project Geologist/Environmental Professional Conducted Phase I and II Due Diligence Assessments using ASTM standard for residential, commercial, and industrial sites, and portfolios inclusive of field surveys, on-site interviews, records search, asbestos accredited, and evaluating physical features to determine past usage of land and prepared summary of findings. Experience in contacting federal agencies, state regulatory agencies, historical data research and local agencies in which information is compiled to generate technical reports.
- Project Manager and Field Geologist for investigation of petroleum hydrocarbon contamination in soil and groundwater from former underground storage tanks at a closed bus maintenance facility in Houston, Texas. Assessment identified three plumes onsite, two plumes associated with the former bus terminal, and one was identified with a waste oil tank from a previous tenant at the property. Worked with the TCEQ to identify two different responsible parties; managed the LPST Coach USA, which was under the oversight of, and funded by, the TCEQ.
- Project Manager responsible for managing LPST sites for subsurface investigations, quarterly groundwater sampling, feasibility studies, Corrective Action Plan preparation and implementation, installation, operation, and maintenance of remediation systems, and site closure. All projects were under the oversight of, and funded by, the TCEQ LPST division.
- Project Geologist responsible for performing monitoring well installation for several LPST sites for subsurface investigations, quarterly groundwater sampling, feasibility studies, Corrective Action Plan preparation and implementation, installation,



operation, and maintenance of remediation systems, and site closure.

- Project manager and field geologist for investigation of petroleum hydrocarbon contamination in soil and groundwater from former underground storage tanks at an active maintenance facility in Houston, Texas. Assessment identified soil and groundwater contamination onsite. Oversaw the installation of groundwater monitoring wells, soil borings, bioremediation, natural attenuation sampling and closure.
- Staff Geologist responsible for performing subsurface investigations, quarterly groundwater sampling, feasibility studies, Response Action Plan, Corrective Action Plan

preparation and installation, operation, and maintenance of remediation systems.

PROFESSIONAL TRAININGS

- OSHA 29 CFR 1910.120 40-Hour Safety Training
- OSHA 29 CFR 1910.120 8-Hour Supervisor Training
- Operator Qualification (OQ) Training
- OSHA 40-Hour Health and Safety OSHA 40-hour HAZWOPER Training, 2005

PROFESSIONAL AFFILIATIONS

- Texas Association of Environmental Professionals