



PROFESSIONAL PROFILE



Julia K. Wilson, PhD, PG, LPST CAPM

Principal Geologist | Operations Director

EXPERIENCE SUMMARY

Twenty years of experience: Principal Geologist/Operations Director – Roux, Houston, Texas; Senior Geologist/Assistant Office Manager – EarthCon, Houston, Texas; Staff Geologist/Project Manager – RETEC/AECOM, Nyack, New York.

TECHNICAL SPECIALTIES

Dr. Wilson is a seasoned environmental consultant with deep expertise in the planning, execution, and management of site investigation and remediation projects under state regulatory frameworks, including TCEQ, the Texas Risk Reduction Program (TRRP), and the Texas Voluntary Cleanup Program (VCP). Adept at managing environmental due diligence efforts, including Phase I and Phase II Environmental Site Assessments, and preparing comprehensive work plans and reports that meet both regulatory and client requirements.

She has proven success leading complex remedial projects involving petroleum hydrocarbons, chlorinated solvents, and hexavalent chromium impacts. Extensive experience managing large-scale soil excavation and site redevelopment, including demolition oversight, waste characterization, and construction coordination.

Dr. Wilson is skilled in air permitting, hazardous waste permitting support (applications, modifications, renewals), litigation support, and development and execution of pre-dredge sampling and analysis plans for new and maintenance dredging projects. Frequently engaged in insurance loss control evaluations and claims review, delivering high-value insights to clients across industrial, commercial, and legal sectors. Known for balancing regulatory compliance with business goals to support informed decision-making and risk management.

REPRESENTATIVE PROJECTS

- **RCRA Permit Renewal Applications, Permit Amendments, and Permit Modifications, Chemical Plants/Petroleum Refineries.** Prepared renewal applications, amendments, and modifications for RCRA permit/compliance plans for several chemical plants in Texas. The work included developing Part A and Part B application forms, preliminary review checklists for SWMUs, closure plans, post-closure plans, inspection plans, training plans, geology reports, groundwater sampling and analysis plans, and cost estimates for financial assurance.
- **Groundwater Detection Monitoring Program, Corrective Action Program (CAP) and Compliance Plan Report, Chemical Plant.** Implemented RCRA detection monitoring, CAPs for SWMUs and AOCs, and annual reporting at a Texas chemical plant. Conducted low-flow groundwater sampling and routine inspections. Maintained remediation system with multiple extraction wells and an effluent conveyance system for on-site treatment. Prepared annual reports summarizing work performed, findings, conclusions, and recommendations.
- **Air Permit Applications, Manufacturing Facilities, Nationwide.** Prepared air operating permits for multiple manufacturing facilities throughout the United States, including coordinating with multiple regulatory agencies and stakeholders.
- **Petroleum Pipeline Release, Corpus Christi, Texas.** Provided response to client within hours of being notified of the release and coordinated initial cleanup and investigation/delineation of the release, including installation of a remediation system and staffing of the system 24/7 for approximately 6 months. The Site is currently undergoing product recovery and is progressing toward closure under the Texas Risk Reduction Program (TRRP) following submittal and acceptance of the Affected Property Assessment Report (APAR). A subsequent release from the same pipeline, further to the west, included a release

CONTACT INFORMATION

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EDUCATION

PhD, Geological Oceanography,
Texas A&M University, 2014
MA, Geology, Georgia State
University, 2005
BA, Environmental Geology &
History, Colgate University,
2003

PROFESSIONAL LICENSES

Registered Professional
Geologist (Texas, North
Carolina)
LPST Corrective Action Project
Manager (Texas)

to the ship channel, as well as the wetlands adjacent to that section of pipeline. An interim remediation system was installed at that location and the Site is progressing toward closure under TRRP following submittal and acceptance of the APAR. Additional remediation and investigation into impacts to the wetlands were required and the chosen remedy was accepted by the Texas Commission on Environmental Quality (TCEQ).

- **Multiple Refinery Operations & Maintenance Projects, Houston/Corpus Christi/Three Rivers/Sunray, Texas.** Management of hydrocarbon recovery operations and ongoing maintenance at multiple petroleum refineries within Texas, all of which were governed differently (i.e., by RCRA permit, Agreed Final Judgement, Agreed Order, etc.). These systems were kept operational and in good working order to keep the refineries in compliance. Responsible for investigating and closing various on-site and off-site releases related to refinery activities and for renewal of permits and orders, as necessary.
- **Pre-Dredge Sediment Investigation and Permitting, Various Sites, Texas.** Provided expertise and management of pre-dredge sediment investigation and sampling at multiple locations along the Texas Gulf Coast. Investigations included coordination with the engineering firm regarding desired dredge depth, calculation of required number of samples, and field implementation. Also included coordination with the United States Army Corps of Engineers (USACE) in Galveston, TX.
- **Water Quality Investigation, Superfund Site, Seattle, Washington.** Sedimentologist responsible for a water quality investigation in Seattle, WA, in relation to ongoing investigation and remediation at a Superfund site.
- **Utility Operations Center, West Nyack, New York.** Project manager in charge of all areas of quarterly groundwater monitoring, sampling, and report preparation. Involved in all aspects of project planning, from budgeting and staffing to final submission of quarterly and annual reports to the appropriate state and local government offices.
- **Former Manufactured Gas Plant, New York, New York.** Field lead on roto sonic drilling from a barge in the river off of a former manufactured gas plant site. Involved in all aspects of project planning, from budgeting and permit application to completion of the drilling program and sediment sampling. Field lead in background grab sampling and vibratory coring sampling in the river to fill in data gaps from the previous roto sonic drilling operation. Directed field program and was involved in all aspects of the effort, including permitting, sampling, and identifying suitable background locations for data comparison. Also responsible for reducing data and aiding with report writing for land-side, as well as river work.

- **Former Manufactured Gas Plant, Rahway, New Jersey.** Responsible for all fieldwork and some project management as part of the pre-design investigation, including Hollow Stem Augers (HAS) and Geoprobe drilling, monitoring well installation, and groundwater and soil sampling to delineate the extent of impact due to former MGP activities on the site bordering a branch of the Rahway River. Also responsible for data reduction and interpretation to aid in future remediation activities.
- **Former Manufactured Gas Plant, Sag Harbor, New York.** Involved in the drilling and groundwater sampling at a former manufactured gas plant, as well as in the development and completion of a salinity monitoring program as part of the remediation work prior to the remedial action taking place.
- **Former Manufactured Gas Plant, New York, New York.** Responsible for majority of the bore logging and well installation on-site, as well as overseeing day-to-day activities on-site. Performed air monitoring and assisted the project engineer with management of the Site. Also responsible for reduction of data from the groundwater and tidal surveys completed at the Site, and preparation of electronic boring logs for all on-site borings and wells installed.
- **Former Manufactured Gas Plant, Mt. Vernon, New York.** Responsible for some impact delineation drilling and soil sampling via direct push, and groundwater sampling via low flow methods. Aided in data reduction and report preparation, as well as electronic boring log preparation and report editing.
- **Former Manufactured Gas Plant, Macon, Georgia.** Responsible for installation and development of several injection wells, as well as aiding in the logging of soil cores taken via direct push prior to well installation. Also aided in data reduction and preparing electronic versions of the field boring logs.

PROFESSIONAL TRAININGS

OSHA 40-hour HAZWOPER Training, 2005
OSHA 8-hour HAZWOPER Refresher Training, current
OSHA 8-hour Supervisor Training, 2007
OSHA 10-hour Construction Safety Training, 2019
Transportation Workers Identification Credentials (TWIC), current
Helicopter Underwater Egress Training (HUET)
IADC Rigpass
DOT HAZMAT Shipping Training
IATA Dangerous Goods Training
CPR and First Aid Training

PUBLICATIONS

- Lyle, M., R. A. Pockalny, P. J. Polissar, J. Lynch-Stieglitz, S. C. Bova, A.G. Dunlea, H. L. Ford, J.E. Hertzberg, S. A. Hovan, A. W. Jacobel, C. King Wertman, A. E. Maloney, R. W. Murray, J. Shackford Wilson, K. Wejnert, and R. C. Xie. Dynamic carbonate sedimentation on the Northern Line Islands Ridge, Palmyra Basin. *Marine Geology*, 379 (2016), 194-207.
- Lynch-Stieglitz, J., P. J. Polissar, A. W. Jacobel, S. A. Hovan, R. A. Pockalny, M. Lyle, R. W. Murray, A. C. Ravelo, S. C. Bova, A.G. Dunlea, H. L. Ford, J.E. Hertzberg, C. A. Wertman, A. E. Maloney, J. K., Shackford, K. Wejnert, and R. C. Xie (2015). Glacial-Interglacial Changes in Central Tropical Pacific Surface Seawater Property Gradients. *Paleoceanography*, 30, 423-438, doi: 10.1002/2014PA002746.
- Wilson, Julia Keegan (2014). Early Miocene Carbonate Dissolution in the Eastern Equatorial Pacific. Doctoral dissertation, Texas A&M University. Available electronically from <https://hdl.handle.net/1969.1/153962>.
- Shackford, Julia K., Lyle, Mitchell, Wilkens, Roy, and Tian, Jun, (2014), Data report: raw and normalized elemental data along the Site U1335, Site U1336, and Site U1337 splices from X-ray fluorescence scanning. In Pälke, H., Lyle, M., Nishi, H., Raffi, I., Gamage, K., Klaus, A., and the Expedition 320/321 Scientists, Proc. IODP, 320/321: Tokyo (Integrated Ocean Drilling Management International, Inc.).
- Tian, Jun, Yang, Mei, Lyle, Mitchell W., Wilkens, Roy, and Shackford, Julia K., (2013), Obliquity and long eccentricity pacing of the middle Miocene climate transition. *Geochem., Geophys., Geosyst.*, 2013, 14, 6, 1740-1755.
- Durocher, Kristen, Sullivan, Anna, Shackford, Julia, and Hughes, Christopher F. (2013). Establishing Background Conditions at MGP Sites on Urban Waterways [presented at the EPRI Manufactured Gas Plant (MGP) 2013 Symposium, Savannah, GA, 12-14 November 2013].
- Shackford, Julia Keegan, "Continuous Late Pleistocene Paleoclimate Record from the Southwest African Margin: A Multi-Proxy Approach." Thesis, Georgia State University, 2005. Available electronically from https://scholarworks.gsu.edu/geosciences_theses/1.