

JACLYN BARON

EDUCATION

MS Water Resources, Thayer School of Engineering, Dartmouth College, 1982
BS Chemical Engineering, Columbia University, New York, 1975
Bronx High School of Science

EMPLOYMENT HISTORY

2025 to present – Sevee & Maher Engineers, Inc., DBA UHL & Associates, Environmental and Water Resources Consultant
1991 to 2025 - UHL & Associates, Inc., Founder and Principal
1987 to 1991 – Geraghty & Miller, Inc., Associate, Senior Scientist
1982 to 1987 – Woodward-Clyde Consultants, Project Engineer, Staff Engineer
1975 to 1978 – Exxon Chemical Americas, Process Design Engineer, Contact Engineer

REPRESENTATIVE PROJECTS

Legal and Emerging Contaminants Projects

NJ Law Firms: Technical assistance on opinions and documents for a cost-recovery case involving two major industries acting as sources for per- and polyfluoroalkylated substances (PFAS) in a large-scale impact to public utility and residential water-supply wells in southern New Jersey. Review of technical arguments, analytical results, regulatory correspondence and legal directives (complaint et. al.) from the NJDEP. The case was ultimately folded into a larger consolidated suit involving multiple groundwater-based utilities and residents.

NJ Law Firms: Technical assistance on opinions and documents for a nearby public water supply and for a nearby homeowner on two cases involving groundwater contamination by PFAS and connection to a large industrial facility.

NJ Law Firm and Insurance Co: Technical assistance on documents for a case involving the origins and mechanisms of contributions to extensive high-level arsenic contamination of groundwater at an old industrial plant.

PA Law Firm: Technical assistance in case involving scope of remediation of 10+ former Manufactured Gas Plants (MFPs) in cities across northern and western New York State.

International Projects

World Bank Group: Sahel Groundwater Initiative – Small Farmer Irrigation (2021-2022):
Assessment of mechanisms for shallow groundwater-based irrigation potential in the alluvial plains

of major river systems and seasonal drainages (wadis), where aquifer conditions are compatible with the application of low-cost drilling and pumping techniques. The assessments focused on potential women-owned commune-based systems and their opportunities and constraints including surveys of gender-based concerns and issues, land ownership, subsidies and financing, solar pump options, costs, and surveys of government programs in other parts of the world for approaches and outcomes.

Habesha Breweries and IFC, Debre Birhan, Ethiopia (2018-2019): Report of an evaluation of environmental and social risks associated with increased groundwater use for a planned expansion of the brewery. The study included an inventory of wells and groundwater use projections for a 10-km radius of the Brewery over the next 5 to 15 years given planned increases by the Brewery, the City of Debra Birhan, the Debra Birhan University, local villages and for known or proposed commercial/ industrial use. Potential environmental and social/community risks and opportunities related to the proposed increased groundwater extraction were identified and assessed, as was the potential for improved water management.

MWH for USAID, Washington D.C. (2013-2016): Development of a set of seven Project Checklists for Groundwater-Based Rural Water Supply Projects to provide guidance for inspiring forward thinking, avoiding common pitfalls and achieving good outcomes, on the subjects of: project conceptualization – relevant risk factors; project planning, permitting & siting of wells; contractual specifications for well installation; well completion – site inspection; well startup pumping test for yield and water quality; final well documentation package; and well operation maintenance – data collection and indicators of well problems.

MWH for USAID, Senegal & Niger (2015-2017): Report of findings and recommendations of project evaluating the performance and life-cycles of 40 groundwater-based solar-powered water supply systems in each country. The project methodology to identify reasons for difficulties such as sand pumping and well failures included water system inspections, down-hole video logging, test kits for bacteria and chemical tests for iron & manganese to understand the causes of visible screen clogging, and interviews with local water resource officials and system operators.

World Bank, Monrovia, Liberia (2011-2012): Report of findings and recommendations of a project inspecting and testing a sample of 200 water points (sources) supplying neighborhoods in Monrovia, which consisted of protected and unprotected hand dug wells, boreholes, sources for water trucking, and vaults or standpipes in the city water supply system. The study found a very high incidence of unacceptable water quality with respect to microorganisms and recommended a prioritized program to fix and replace the compromised sources.

MWH For USAID, Ethiopia (2015-2016): Assisted with development of a methodology (ILAP calculator) as a planning tool for sustainable small-holdings (less than 1-ha) groundwater based rural water supply development, by evaluating the availability of groundwater in a watershed (basin), based on recharge, usage, and ecological needs, and comparing it to the demand posed by the land available (suitable) for potential small-scale irrigation.

Government of Botswana (1995-2004): Report compiler and editor for a two-year regional groundwater resource exploration project for water supply to Maun, in the Kalahari Desert at the distal end of the Okavango Delta. The multi-disciplinary methodology included remote sensing, vegetation analysis, geomorphology, structural geology, surface water hydrology, surface and

airborne geophysics, stable isotopes, hydro-geochemistry, groundwater and surface water modeling and hydrogeology. Also, developed a program for management of the main well field for Maun including well operating parameters monitoring and maintenance, and water quality testing.

Soil and Groundwater Contamination Projects

Insurance Companies (NJM, Aetna & Chubb) (1990s to Present): Technical review of Insured's consultants/contractors plans and activities; oversight of investigations and remediation; source and timeframe studies and cost allocation. Sites in NJ, NY and PA involving releases from residential heating oil Underground storage tanks (UHOTs), gasoline stations, and solvent spills.

NJ Townships/Counties (1990s to Present): Various projects included an Environmental Assessment of a former farm property to support purchase of property for open space (Union Twp.); Prepared Draft Wellhead Protection Ordinance, and report contributor/editor for hydrogeologic studies and Route I-287 impact study to protect the limited shallow buried valley aquifer serving as water supply for the township (Montville Twp.); Setup analytical program for complete analysis of a potential large groundwater source for drinking water to assess suitability/compliance with NJ Safe Drinking Water quality requirements (Morris Co).

Natural Gas Corporation: (1990s to Present). Numerous projects included investigations for petroleum products, PCBs and mercury, and remediation of soil at many valve sites and metering & regulating facilities along the pipeline in NJ and PA; investigation and remediation of a natural gas compressor station in NJ with multiple areas of concern (AOC), including preliminary assessment (PA), site investigation (SI), remedial investigation (RI), remedial action work plan (RAW) and report (RAP).

Private Corporations and PRP Groups: (1990s-2000s): Landfill in PA with contaminated leachate on Federal NPL (RI Manager/Report writer, and RI/FS Umbrella Manager); shopping center with TCE contamination from dry cleaners impacting residential wells on both sides of a groundwater divide on NY State Superfund List (RI Manager/Report writer and RI/FS Umbrella Manager); factory fabricating capacitors (RI, Cleanup Plan and Final Report, Manager/Reports writer) remediated under PA Act 2 prior to property transfer; environmental assessment of a bauxite refinery in St. Croix for property transfer and re-startup (Onsite Investigator/Report writer).

RCRA and CERCLA Sites (1980s): Technical team member for 5-year field and desktop program to investigate, remediate, and bring a large Chemical Waste Management hazardous waste facility (treatment ponds and landfill disposal cells) in Wichita, Kansas with heavy volatile organic and metals soil and groundwater contamination into compliance with the RCRA regulations. Initial site inspections, technical Work Plans and pre-design plans, QA/QC plans, and Region 3 multi-firm team Health and Safety Manager, for field work at uncontrolled hazardous waste sites on the federal National Priority List (NPL) being addressed under the REM/FIT and REM II CERCLA contracts in USEPA Region 3.