

James (Jim) Scholl, P.E., F.ASCE, D.WRE, BCEE

Water Resources Engineer

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CAREER PROFILE

Senior water solutions consultant having a track record of leadership, and technical delivery with innovative results. Experience covers water, wastewater, stormwater, and natural systems for municipal, industrial, and government agency clients. Results are demonstrated by client projects with repeat business, promotions, and project awards from industry associations. Unique skills include water instrumentation, operations, system modeling, wet weather programs, green stormwater, low impact development, sustainable Urban Drainage Systems, and Water Sensitive Urban Designs.

PROFESSIONAL EXPERIENCE

Hubbell, Roth and Clark, Inc. Bloomfield Hills, Michigan
Regional consulting firm with a strong water practice.

2016 - Current

Senior Water Resources Engineer

Providing project and client leadership on work for the Great Lakes Water Authority (GLWA), City of Detroit, and Macomb, Oakland, Wayne, and Calhoun Counties in Michigan. Currently managing the development and delivery of Capital Improvement Plant for a 240 mgd Water Treatment Plant for the GLWA.

QGC/BG Group, Brisbane, QLD, Australia

Global producer of natural gas for domestic and LNG markets.

2011 – 2015

Manager, Water Operations

Planned, developed and implemented the Unified Water Operations Platform (UWOP) for a water system to gather, store, and treat brackish water from natural gas extraction. The water treatment system can process 50 mgd using reverse osmosis to provide product water for beneficial use in compliance with permitted standards. Work highlights include:

- Managed delivery of instrumentation, procedures, staffing, modeling, asset management, cost reporting, and communication activities for system-wide water operations.
- Assessed risks for a gas business delivering a 6,000 well water project and implemented a 5-year Unified Water Operations Platform (UWOP) to eliminate water production choke.
- Resolved difficulties resulting from using the gas model to forecast water volumes (2-3 times high) by developing a calibrated model specific to water.
- Provided technical leadership for successful delivery of equipment pilot testing to process salt wastes from reverse osmosis water treatment systems, saving (\$) tens of millions.
- Established processes and outreach for routine alignment between field and office water operational teams such that customer credibility was restored after forecasts failed.
- Assessed the need to operate and maintain water treatment facilities using a competitively tendered contractor rather than expand internal capabilities.
- Managed a Value Engineering review team project to understand water treatment plant performance limitations resulting from uncertain raw water quality and tight treated water permit limits, resulting in an action plan to guide facility start-up.

Malcolm Pirnie/ARCADIS, Lansing, Michigan

2004 – 2011

Full service consulting engineering practice with strong water business.

Vice President

Established a national water resources consulting team with services including water, wastewater, stormwater and natural systems. Directed program delivery and provided technical leadership, client development, and marketing to increase sales by four times and grow business in the global market. Conceived proactive strategies to provide integrated, low impact development solutions for wet weather program regulatory compliance with new work resulting in Michigan, Pennsylvania, New York, Ohio, Indiana, and Washington DC. Initiated planning and delivery to secure work with industrial and global clients resulting in new water projects for mining, oil and gas, and energy sectors. Selected projects include:

- **Platform for Water System Integration, Copper Mine Client: Santiago, Chile.** This project involved providing technical direction for approval of a platform to integrate the supply, use and reuse of water for a copper mine. The water system included the groundwater well field, pipes, pumps, processes, slurry pipeline and waste disposal. A key element involved setting methods to monitor and track water use for reducing the water needed to produce copper and increasing production capacity.
- **Water Supply Planning, Permitting for Babcock Ranch: Charlotte County Utilities, Punta Gorda, Florida.** Growth resulted in the need to develop new water supply and treatment facilities. This project evaluated the groundwater capacity and treatment requirements using Reverse Osmosis for treating brackish groundwater to provide up to 20 mgd in new water capacity including water use permitting from the Water Management District.
- **Santa Clara Valley Water District, Program Audit: San Jose, California.** This project involved performing an audit and cost effectiveness review of operational activities of the District. Directed the task dealing with the water treatment and watershed operations, including the development of quality operating procedures for treatment plant performance, nonpoint source pollution, drainage, flooding, stream bank protection, and regulatory compliance.
- **Source Water Protection Program for Lake Purdy and Inland Lake Reservoir: Birmingham Water Board, Birmingham, Alabama.** Development pressures in the watersheds tributary to these reservoirs led to the need for preparing source water protection plans. This work included performing watershed and control measure modeling to develop strategies and action plans for protecting source water quality and management controls to assure cost effective and sustainable water treatment operations.

McNamee, Porter and Seeley/Tetra Tech, Lansing, Michigan

1992-2004

Full service consulting practice with strong water business.

Vice President

Established and managed regional offices in Lansing, Michigan and Milwaukee, Wisconsin. Developed client relationships, marketing initiatives and business plans to achieve significant growth. Provided office and technical leadership to promote efficient team delivery of projects. Selected projects include:

- **Development of 2020 Facilities Plan: Milwaukee Metropolitan Sewerage District, Milwaukee, Wisconsin.** Led the project modeling tasks for developing a watershed approach for regulatory compliance for combined sewer overflow (CSO) tunnel operation, sanitary sewer overflow (SSO), stormwater, and wastewater treatment facilities to handle

projected flows for 2020 conditions. Capital projects proposed for this project totaled over \$1 Billion. Modeling of the wastewater collection and drainage systems was linked to receiving water quality modeling to define problems and evaluate solutions.

- **CSO Sewer Separation Program: Lansing Michigan.** Project manager for implementation of sewer separation projects to eliminate CSO discharges and river inflow to the wastewater collection system. The average annual project work represented approximately \$20-30 million in construction. Work included securing and managing the State Revolving Fund monies to finance construction, obtaining permits, advertising and awarding construction contracts, overseeing construction, and coordinating public information activities.
- **CSO Control and Treatment Program: Mount Clemens Michigan.** Managed a project involving preparation of an inventory of existing facilities, monitoring of flows, modeling of flows, and modeling of conveyance to prepare a CSO control and treatment program for addressing water quality requirements and to eliminate basement flooding and river inflow at regulators. Project involved system conveyance and storage improvements that have handled greater than the 25-year event. The project included partial sewer separation and was awarded the USEPA Clean Water Act First Place Award for the CSO category in 2004.
- **Milk River CSO Storage and Treatment System: Wayne and Macomb Counties Michigan.** The Milk River is a natural river channel that was severely impacted by many years of untreated CSO discharges. The river passed through a residential neighborhood prior to discharging into Lake St. Clair. Due to site limitations and the significant need to improve receiving water quality, this project used a demonstration rather than a presumptive approach to fulfill regulations established by the State. The project involved high-rate satellite treatment for all CSO discharges and saved over \$20 million compared to traditional treatment solutions.
- **Downriver SSO Program Management: Wayne County Michigan.** Performed project performance certification monitoring of sanitary sewer flows and modeling of rainfall-dependent infiltration/inflow to calibrate flows using XP-SWMM. Established the Basis of Design for a 15-million-gallon storage/transport tunnel and pump station system with emergency flow capacity up to 250 mgd in compliance with State and Federal regulations. Results were used to complete design and construction for over \$40 million of system improvements.
- **Statewide Stormwater Management Program and Permit: Michigan Department of Transportation Lansing, Michigan.** This project included the development of a statewide strategy for stormwater NPDES permit compliance for both Phase I and II programs. The statewide stormwater management plan included BMP action plans for operation and maintenance activities.
- **Menomonee River Watercourse Management Plan: Milwaukee Metropolitan Sewerage District, Milwaukee, Wisconsin.** The primary purpose for this watercourse management plan was to identify flooding problems and to prepare preliminary information on projects to correct the problems. The project involved performing hydrologic and hydraulic modeling and preparing floodplain maps to identify flooded property. Results were used to support the design and construction for over \$50 million of improvements.
- **Master Specifications for Watercourse Channel Design: Milwaukee Metropolitan Sewerage District, Milwaukee, Wisconsin.** This project involved preparing new Master Specifications for watercourse design projects to use natural stream restoration methods such as bio-engineering techniques and pool with riffle transitions. The specifications were adopted for use on all watercourse construction projects funded by the District.
- **Stormwater Plan and Permit: Public Works Department, Battle Creek, Michigan.** Developed a stormwater and watershed program for Battle Creek, Michigan that was awarded the USEPA Clean Water Act First Place award for Municipal Stormwater Engineering in 2002.

EDUCATION

MSE Environmental Engineering, University of Florida - Gainesville, Florida
BSE Environmental Engineering, University of Michigan - Ann Arbor, Michigan

PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineering, Fellow
American Academy of Environmental Engineers and Scientists, Board Certified
American Academy of Water Resources Engineers, Diplomat
American Water Works Association, Active Member
Water Environment Federation, Active Member

LICENSES

Professional Engineer, Florida, and Michigan

AWARDS

Outstanding Environmental Engineer, Michigan Water Environment Association, 2004
Outstanding Technical Achievement Award, Florida Engineering Society, 1986
Young Engineer, American Society of Civil Engineers, and Florida Engineering Society, 1982, 1984