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- Experience:** 2014 - TKW Consulting Engineers (part-time)  
5621 Banner Drive  
Fort Meyers, FL 33912  
  
1982-2014 with AECOM Technical Services, Inc. (formerly Boyle Engineering Corp.),  
150 North Orange Ave., Orlando, FL 32801  
Rob Friedel, H.R. Manger 407 513-8243  
  
1978-1982 Capital Consultants Inc. (now C2AE), Lansing MI
- Education:** MS, Civil Engineering, Michigan Technological University, 1978  
BS, Civil Engineering, Michigan Technological University, 1977
- Registration:** Professional Engineer, MI since 1981, #28496  
Professional Engineer, FL since 1982, #32891
- Affiliations:** Water Environment Federation (WEF)/ Florida Water Environment Association (FWEA)  
American Society of Civil Engineers (ASCE)  
American Water Works Association (AWWA)  
International Ozone Association (IOA) &  
Florida Industrial Pretreatment Association (FIPA)
- Compensation:** To be discussed  
**References:** Available upon request

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**Work Experience: TKW Consulting Engineers** Part time assisting with rerating of Peace River Manasota Regional Water Supply original WTP.

**AECOM** Starting as a project engineer with Boyle in 1982, I had various roles over the years as project engineer to project manager on a wide variety of water, wastewater, pump station and related projects. Over the past 7-years or so, I had varied responsibilities in the Quality Control/Quality Assurance program from reviewing documents to checking that the PM performed the required QA steps.

**Capital Consultants** Project engineer for construction of multiple wastewater treatment facilities and the related O&M manual production.

### Water

**Peace River Facility Expansion, Surface Water Treatment Plant, DeSoto County, FL.** Project engineer responsible for the PAC contact tanks, flocculation tanks, solids contact units and the transfer pumping facilities. Also provided quality control assistance for the two high service pumping facilities. Three 2MG ground storage tanks were also constructed. Completion Date: Construction 2010

**Peace River Option, Surface Water Treatment Plant, DeSoto County, FL.** Project engineer responsible for coordinating efforts of the process, structural, electrical, mechanical and instrumentation design. Carl designed the PAC contact tanks, flocculation tanks, sedimentation basins and the pumping facilities. Completion Date: Professional Services 1999, Construction 2002

## **Wastewater**

**Jebel Ali Phase 2 Sewage Treatment Plant Expansion Dubai Municipality UAE.** Project Engineer on biosolids handling design team for a 100 mgd expansion of an existing 80 mgd facility. Team responsibilities including primary sludge thickening, activated sludge thickening, anaerobic digesters, and dewatering facilities. First Draft submitted to client January 2014

**Eastern Water Reclamation Facility Phase V Improvements, Orange County Utilities, Orange County, FL** – Quality Control Reviewer for the Phase V improvements to the Eastern Water Reclamation Facility (EWRF) to expand the treatment capacity from 19 to 24 mgd (AADF). The project includes a new pretreatment structure to provide screening and grit removal for up to 106.8 mgd peak hour flow (40 mgd AADF) to accommodate future plant expansions, a new 125-foot diameter clarifier, additional chlorine contact basins to provide high level disinfection for the entire plant flow and new effluent pumps. The project also entailed replacing the existing mixers and adding supplemental aeration and supplemental carbon to the existing Phase I – III biological treatment processes and installing new WAS and RAS pumps for the existing clarifiers. Four diversion structures and a reject pump station will be provided to transfer noncompliant effluent to a reject storage pond. Estimated construction cost is approximately \$40 million. Construction is scheduled to begin in January, 2014 and be completed by December, 2014.

**Eastern Water Reclamation Facility Phase 4C, Orange County, FL.** Quality control reviewer for final engineering construction documents for a 5-mgd treatment plant expansion including a modified step feed biological treatment process, a new 125-foot diameter clarifier and RAS/WAS pumping, and a new blower/electrical generator building. Completion Date: 2007

**Yankee Lake Water Reclamation Facility, Seminole County, FL.** Project quality reviewer and engineer of record for the final design of the Yankee Lake WRF Phase IIA upgrades and improvements. Project was the second phase of a three phase project to ultimately increase the plant capacity from 2.5 mgd ADF to 5.0 mgd ADF. Phase IIA consisted of replacing and upgrading existing equipment and addition of new aerated solids processing tanks and sludge handling facilities. The plant upgrades and improvements consisted of replacing existing equipment including mechanical bar screen, grit collector, grit pumps, grit classifier, odor control system, process blowers, internal recycle pumps, clarifier mechanisms, actuators at the filters and reuse pumps. The project also included construction of new sequencing facultative digestion tanks with hydraulic mixing and diffused aeration system, new sludge transfer pumps, belt filter press, cake sludge pump, polymer activation system, and a new sodium hypochlorite building with FRP storage tanks and containment. Completion Date: Design Services 2010, Construction April 2012

**Yankee Lake Rerating, Sanford, FL.** Quality control technical review for a phased rerating of Seminole County's Yankee Lake WRF. Phase I added 0.5 to 1.0-mgd of capacity with minimal capital improvements. Phase I also included design of a biosolids dewatering building. Phase II increased treatment capacity to 5.0-mgd. Completion Date: Construction 2010

**Lift Station N-2, Mims, FL.** Project manager responsible for the overall project management of the project, including redesign of the collection system to flow to the new lift station and design of the lift station itself. The lift station rated at 45-gpm. Scope of services included final design phase services for replacement of an existing submersible lift station to include pumps, piping, new vault and valves, electrical, controls and associated appurtenances. Design met current Brevard County design standards for submersible lift stations. Project is an assignment under an on-call contract in which AECOM was providing ongoing services to the county. Completion Date: Professional Services 2006.