

**WILLIAM "SCOTT" DEWHIRST II, P.E.**  
University Place, WA



**SUMMARY**

Career has been dedicated to work in the drinking water utility field ranging from consulting engineering to leading major utilities at the Director level; enjoy applying my leadership, organizational, and interpersonal skills to enhance the performance of the utility and challenge co-workers to excel in their responsibilities through a process of continuous improvement.

**EDUCATION**

**M.S. Environmental Engineering, May 1997**

Virginia Polytechnic Institute and State University, Blacksburg, Virginia G.P.A.: 4.0/4.0  
Thesis: *Mn(II) Oxidation by HOCl in the Presence of Iron Oxides: A Catalyzing Effect*

**B.S. Civil Engineering, May 1993**

Virginia Polytechnic Institute and State University, Blacksburg, Virginia; Summa Cum Laude  
Financed 100% of education through work and scholarships

**PROFESSIONAL EXPERIENCE**

10/17 – Present

**Tacoma Water Superintendent, City of Tacoma, WA**

- Responsible for oversight and strategic direction for a large regional water utility serving over 320,000 customers in and around the City of Tacoma
- Assist the Director of Tacoma Public Utilities and other members of the Executive Leadership Team with overall utility direction
- Oversee an annual budget of over \$100 million and approximately 280 full time employees
- Lead the organization through a re-organization to define clear roles and responsibilities for staff and better align functions to standardize and document key business process for knowledge retention

10/12 – 09/17

**Assistant and Interim Director, City of Newport News – Waterworks, Newport News, VA**

- Served as Acting/Interim Director for over 27 months during this period.
- Assist the Director in the management and operational oversight of a water utility serving over 400,000 customers in five jurisdictions on the Virginia Peninsula.
- Provide oversight and direction for six operating divisions of the utility with an annual budget of over \$80 million and over 350 full time employees.
- Participate and lead budget development, capital improvement plans, and rate setting policies for the utility.
- Responsible for the development of staff ensuring conformance to performance standards and implementation of High Performance Organization (HPO) concepts and initiatives.
- Leadership Team Steering Committee Co-Chair 2013; Chair 2014.

11/01 – 10/12

**Chief of Facilities Engineering, City of Newport News – Waterworks, Newport News, VA**

- Responsible for the oversight of all engineering functions for all Waterworks' facilities including water treatment plants (2), pumping stations (7), storage tanks (10), and dams (7).
- Oversee the work of support staff and coordinate their activities with the needs of the utility as well as managing the budget associated with this function.
- Oversee consultant engineering contracts to perform design, construction administration, and other related services.
- Work closely with operations and maintenance staff to improve facility operations, troubleshoot and correct equipment issues, and develop procedures to streamline maintenance activities.
- Provide oversight of the Capital Improvements Plan (CIP) for the utility – approximately \$80 million over the next 5-year period.
- Serve as secretary of the Professional Services Selection Committee whose function is to select consultants for projects where professional services are required.

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**Chief of Facilities Engineering**, City of Newport News – Waterworks, Newport News, VA (continued)

- Serve as project manager for various water utility projects performed with outside contractors or in-house maintenance staff.
- Participate actively in the leadership team of the utility providing input, direction, and ideas to advance the utility both internally and externally.
- Member of the HPO (High Performance Organization) Team for Waterworks; function of Team is to educate and instill in staff throughout the organization the principles and benefits to being a High Performance Organization.
- Serve on Asset Management Project team to formalize and develop Waterworks' asset management strategy and implement appropriate software solution to support effort.

Project Manager for Lee Hall WTP and Modifications to Harwood's Mill WTP Project

- Coordinated Owner and Engineer field staff including engineers and maintenance personnel to oversee construction of new \$70 million 60 MGD Lee Hall WTP including dissolved air flotation and ozonation facilities.
- Served as direct contact for the Contractor; responsible for the resolution of all construction related issues, change orders, etc.
- Project was completed within budget despite Contractor ceasing operations during project.

Project Manager for Lee Hall Lower Dam Improvements Project

- Serving as project manager for a dam improvements project to rehabilitate an existing high hazard dam to meet new dam safety regulations.
- Coordinating activities between engineering consultants, Waterworks staff, legal support team for permitting issues, CSX Transportation, and regulatory agencies.
- Anticipating project to total over \$15 million in improvements when completed.

Other Key Projects

- Designed and oversaw installation of 300 hp, 14 MGD Northern Zone Pump No. 3; installed with internal Waterworks resources; project included mechanical, electrical, instrumentation, and SCADA coordination.
- Designed and oversaw replacement of electrical bus duct with electrical conduit by outside Contractor; maintained plant operations throughout project duration.
- Designed and managed the construction contract of a Liquid Oxygen piping replacement project. Plant operations at both water treatment plants were maintained throughout the project and project was completed on time and on budget.
- Responded to emergency call during DAF Saturator Failure; developed strategy to stabilize the situation, implemented corrective measures while maintaining system and plant operations during peak summer demand period.
- Oversaw emergency repairs to Lee Hall Dam to correct a piping failure noted in the dam embankment working with grounds maintenance crews and geotechnical engineers.

04/00 – 11/01

**Engineer III**, City of Newport News – Waterworks, Newport News, VA

Project Engineer for Lee Hall WTP and Modifications to Harwood's Mill WTP Project

- Served as lead project engineer for construction administration and inspection for construction of \$70 million WTP upgrade/construction project.
- Assisted resident engineer with field inspection, shop drawing review, RFI processing, payment application review, and change order preparation throughout project.
- Promoted to Chief of Facilities Engineering November 2001

02/95 – 03/00

**Design/Project Engineer**, Black & Veatch, Greenville, SC

Table Rock and North Saluda Water Treatment Plant – Greenville Water System (GWS)

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### Design/Project Engineer, Black & Veatch, Greenville, SC (Continued)

- Assisted in the design of a 75 MGD dissolved air flotation water treatment facility; responsibilities included residuals and wash water treatment facilities, miscellaneous hydraulic calculations, sitework and stormwater design, yard piping, chemical feed conduit layout, and design of miscellaneous yard structures.
- Evaluated raw water pumping alternatives and assisted in the development of the design memorandum for the project.
- Performed inspection of the construction activities; responsible for project correspondence, design modification review, and shop drawing review.
- Developed system wide hydraulic profile for the raw and finished water systems.

#### 48 Inch Water Main Rehabilitation (GWS)

- Assisted with the design of the alternatively bid project for open cut replacement of an existing 48-inch PCCP main with DIP or sliplining the existing 48-inch PCCP main with 36-inch DIP.
- Oversaw the construction administration of the project; responsible for all project correspondence, shop drawing review, and assisted resident engineer with inspection.

#### South Saluda Pumping Station, Lakemont and Goodwin Bridge Reservoirs (GWS)

- Designed two prestressed concrete storage reservoirs (200,000 and 500,000 gallons in size) and assisted with the design of an accompanying 500 gpm pumping station.
- Assigned responsibility for construction project correspondence, shop drawing review, and assisted with inspection of construction activities.

#### Table Rock and North Saluda Water Treatment Plant Transmission Mains (GWS)

- Oversaw the design of over 45,000 feet of 42 inch and 5,000 feet of dual 48-inch raw and finished water transmission mains (ductile iron pipe).
- Developed the details for connections to existing water mains within the system working closely with the client to minimize inconveniences to system operation; eight connections required with extensive valve vault design.
- Evaluated alignment alternatives and compiled cost opinions during preliminary design.
- Assisted with the inspection and construction administration of the project overseeing the shop drawing review and working in coordination with the resident engineer.

#### Lowndes Hill Pumping Station Reconstruction (GWS)

- Assisted with the design and repair of a 500 gpm pumping station working closely with the Owner to fast track the design and construction of the improvements and reconstruction of the station.

#### Table Rock and North Saluda WTP: Site Clearing and Mass Excavation (GWS)

- Assisted with the design of the sitework, grading, storm drainage piping and structures, erosion control plan, road layout, and stormwater management facilities for the water treatment plant site located on steep natural terrain.
- Reviewed shop drawings and assisted with the inspection and contract administration including various forms of written correspondence.

#### Gayley Pumping Station Modifications (GWS)

- Performed the hydraulic calculations and cost opinion evaluations for the replacement of three 15-mgd pumping units with new 15-mgd units with adjustable frequency drives.
- Developed the design memorandum for the facility improvements; responsible for the evaluation of the existing facilities and coordination of design with the Owner.
- Assigned the responsibility of overseeing startup and testing of the facility and inspection of the construction activities.

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**Design/Project Engineer**, Black & Veatch, Greenville, SC (Continued)

### Cliffs Valley Pumping Station (GWS)

- Reviewed the design of a 250 gpm pumping station for Owner for conformance to design standards and pumping capacity; developed system head curves and reviewed proposed layout and pumps selected.

### 30 Inch White Horse Road Water Main (GWS)

- Assisted with the design and construction administration including shop drawing review, of a 250 gpm pumping station for Owner for conformance to design standards and pumping capacity; developed system head curves and reviewed proposed layout and pumps selected.

### SJWD Water Treatment Plant Evaluation

- Assisted with the evaluation of an existing water treatment facility for plant optimization and recommended improvements.
- Evaluated the plant pumping and hydraulics, the sedimentation and filtration processes, chemical feed systems, finished water storage/clearwell capacities, CT requirements, and residuals handling facilities.

### SJWD Cold Water Coagulation Study

- Assisted with the report preparation and data collection to study the effects of colder coagulation temperatures on water treatment plant performance.

### SJWD 5-MG Finished Water Storage Reservoir and Pumping Station

- Evaluated alternatives for the siting of a new 5-MG prestressed concrete storage reservoir and pumping station.
- Assisted with the preparation of detailed plans and specifications for the reservoir and performed preliminary layout and design of the finished water pumping station.

### SJWD Friendship Booster Pumping Station and Water Treatment Plant Improvements

- Oversaw the construction administration of the project; responsible for all project correspondence, shop drawing review, and assisted resident engineer with inspection.
- Responsible for the supervision of a staff engineer and resident engineer assisting with the construction administration duties.

08/93 – 02/95

### **Graduate Research Assistant**, Virginia Polytechnic Institute and State University

- Conducted research to enhance manganese oxidation and subsequent removal in low TOC water supplies by utilizing iron oxides as an adsorptive surface.
- Responsible for lab preparation and grading for Environmental Chemistry, Unit Operations Laboratory, and Water and Wastewater Treatment Plant Design.

06/93 - 08/93

### **Summer Intern**, Montgomery Watson, Herndon, Virginia 22070

- Maintained data base for the wastewater collection system of a large municipality.
- Aided the data analysis effort for a Lead and Copper Study.
- Developed a preliminary design of a hazardous waste wastewater treatment facility.

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### PRESENTATIONS

- Speaker - Virginia AWWA Conference 1994 “Catalyzed Manganese Oxidation in the Presence of Iron Oxides”
- Speaker - National AWWA Conference (ACE) 1995 “Catalyzed Manganese Oxidation in the Presence of Iron Oxides”
- Speaker – Southeast Technology Transfer Conference, Greenville, SC - 2004
- Speaker - AWWA Webcast on Conversion to Sodium Hypochlorite from Chlorine Gas - 2008
- Speaker - National AWWA Conference (ACE) 2009 “Dissolved Air Flotation – From Design to Operation”
- Speaker - Virginia Section AWWA – 2009 – “King William Reservoir – What Happened and Lessons Learned”
- Speaker - Virginia Section AWWA – 2009 – “Manganese Contactors – A Possible Manganese Solution for Utilities”
- Panelist, 2021 Water Utility Resilience Forum, Resilience Up Close, Chemical Supply Challenge
- Panelist, 2022 AMWA Executive Management Conference, Embracing a Data Culture

### AWARDS

- Outstanding Young Alumni – Virginia Tech Department of Civil and Environmental Engineering – 2009
- Safety Employee of the Year – Newport News Waterworks – 2009
- Safety Employee of the Year – City of Newport News – 2009
- Outstanding Student Paper/Speaker – Virginia AWWA Conference 1994

### ACTIVITIES

- Chair of Virginia Section AWWA (2016); Chair of Technical Program Committee – Virginia Section, Past Chair of Young Professionals and Co-Chair of Water for People
- Board of Directors, Association of Metropolitan Water Agencies (AMWA) 2018-Present
- Water ISAC Board of Directors (2022-present), Treasurer (2023-Present)
- Information Technology Specialist for Black & Veatch, Greenville, SC
- President Ricelan Springs Homeowners Association, Mauldin, SC
- Sunday School Coordinator – Williamsburg Community Chapel
- Bible Study Fellowship – Children’s Leader (Greenville, SC and Newport News, VA)
- Youth Soccer, Baseball, and Softball Coach – Williamsburg and James City County Parks and Recreation
- Outdoor Activities- Hiking, Skiing, Biking, Travel