

Michael B. Tate, P.E.

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Employment History**Consultant**

January 2022 - Present, T8 Environmental, LLC (self-employed), 2731 SW Lagito Dr, Topeka, KS 66614

Specializing in:

- Clean Water Act/Wastewater
 - NPDES Permit Assistance/Audit
 - Wastewater Compliance Assistance
 - Wastewater Operations Review
 - Plan/Engineering Report Review
 - Report Development
 - Data Analysis
 - Policy Development
- Safe Drinking Water Act/Drinking Water
 - Plan/Engineering Report Review
 - Report Development
 - Data Analysis
 - Policy Development

Representative Work:

- 2024 – Present – Missouri Municipal Nutrient Optimization Pilot Project
 - Joint Venture with Grant Tech Solutions to optimize 8 activated sludge wastewater treatment plants for nutrient reduction under contract with the Missouri Department of Natural Resources
- 2024-2025 – Evaluation of regulatory options for non-municipal wastewater lagoons (Private client)
- 2022 – 2025 – Kansas Department of Health and Environment Plan and Specification Review
 - Expedited review of City of De Soto/Panasonic wastewater project plans and specifications
- 2022 – Montana DEQ Nutrient Optimization with Grant Tech Solutions
 - Nutrient optimization for 34 activated sludge wastewater

US Environmental Protection Agency

Environmental Engineer

February 2016 - December 2021, US Environmental Protection Agency, 11201 Renner Blvd, Lenexa, KS 66219

- Broad involvement in all phases Clean Water Act and Safe Drinking Water Act programs
- Focus on small community affordability and sustainability issues

Kansas Department of Health and Environment

Director, Bureau of Water

September 2011 - December 2015, Kansas Department of Health and Environment, 1000 SW Jackson St, Ste 420, Topeka, KS 66612

- Manage day-to-day operations of Safe Drinking Water Act and Clean Water Act regulatory programs for the State of Kansas.
- Oversee approximately 90 staff in total with 10 direct reports.
- Manage an annual operating budget of \$12 million and a total budget of in excess of \$300 million including the state low interest loan program for water and wastewater infrastructure.

Chief Technical Services Section, Bureau of Water

November 1997 – September 2011, Kansas Department of Health and Environment, 1000 SW Jackson St, Ste 420, Topeka, KS 66612

- Managed a staff of 10 with four direct reports. Key activities included:
- Development of State Surface Water Quality Standards
- Certification of Water Quality Compliance for NPDES Permits
- Management of Kansas Water/Wastewater Operator Certification Program
- Management of Kansas NPDES Permitting, Compliance, and Enforcement Program
- Coordination of field activities for Statewide District offices
- Hours per week: 40+
- Supervisor: Karl Muehdener (retired) – (785) 554-6388, may be contacted

Professional Environmental Engineer II, Bureau of Water

- June 1995 – November 1997, Kansas Department of Health and Environment, 1000 SW Jackson St, Ste 420, Topeka, KS 66612
- Managed two staff with one direct report. Key activities included:
- Directing special water quality projects
- Coordination with district inspection staff
- Management of water and wastewater operator certification program
- Hours per week: 40+
- Supervisor: Jerry Grant (deceased)

Professional Environmental Engineer I, Bureau of Waste Management

- March 1992 – June 1995, Kansas Department of Health and Environment, 1000 SW Jackson St, Ste 420, Topeka, KS 66612
- Managed four staff with two direct reports. Key activities included:
 - Obtaining Subtitle D (solid waste) authorization for the State of Kansas from EPA
 - Coordinating with district inspection staff
 - Management of special waste program
 - Management of solid and hazardous waste enforcement program

Various Engineering Positions, Bureau of Water

- January 1985 – March 1992, Kansas Department of Health and Environment, 1000 SW Jackson St, Ste 420, Topeka, KS 66612
- Managed two direct reports. Key activities included:
 - Management of industrial wastewater permitting program
 - Coordination with district inspection staff
 - Writing NPDES permits
 - Management of wastewater enforcement program

Education

Oklahoma State University, Stillwater, OK

- B.S. Civil Engineering – Oklahoma State University – 1980
- M.S. Bioenvironmental Engineering – Oklahoma State University – 1981
 - Thesis – Bulk Deposition of Heavy Metals in Tulsa, OK

Key Professional Activities

- Licensed Professional Engineer – Kansas
- KS Section of the American Water Works Assn. (Former Board of Trustees)
- Kansas Water Environment Association/Water Environment Federation
 - Government Affairs Committee
- Association of Clean Water Administrators (ACWA)
 - Nutrient Policy Committee Co-chair
 - Monitoring, Standards & Assessment Task Force member
 - Permit and Compliance Task Force member
- Named to Governor's Working Group on Induced Seismicity. 2014
- Invited Planning Committee Member Kansas University Environmental Engineering Conference. 2012 - present
- Invited Panel Member Environmental Defense Fund (EDF), Water Environment Federation (WEF) and Johnson Foundation at Wingspread - Crafting a Future Vision for Nutrient Management in Wastewater Treatment. 2013 - present
- Invited Panel Member National Academy of Science/National Research Council - Review of EPA's Economic Analysis of Final Water Quality Standards for Nutrients for Lakes and Flowing Waters in Florida. 2011 - 2012
- Invited Panel Member National Academy of Science/Airport Cooperative Research Program - Transportation Research Board - Applying Whole Effluent Toxicity Testing to Evaluate Airport Runoff (ACRP 02-39) - 2012 – present
- Invited Panel Member National Academy of Science/Airport Cooperative Research Program - Transportation Research Board - Understanding Nuisance Microbial Biofilms in Receiving Waters Impacted by Airport Deicing (ACRP 02-32). 2010 - present
- Invited Participant Water Environment Federation/EPA Water Quality Standards Forum. 2008 – 2013
- Invited State Participant - EPA Water Quality Standards Managers Association 2006-2010
- Invited Participant EPA Nutrient Innovations Task Group. 2008-2009
- Invited Participant Water Environment Federation National Policy Forum on Wet Weather Management. 2008
- Invited Expert – Expert Scientific Workshop on Critical Research and Science Needs for the Development of Recreational Water Quality Criteria for Inland Waters. Dallas, Texas, February 18 – 20, 2009. Water Environment Research Foundation
- Invited Expert - Experts Scientific Workshop on Critical Research Needs for the Development of New or Revised Recreational Water Quality Criteria. Warrenton, Virginia, March 26-30, 2007. U.S. Environmental Protection Agency Offices of Water and Research and Development

Publications

- Tate, Michael B., and Bates, Marcia H. Bulk deposition of metals in Tulsa, Oklahoma. Water, Air, & Soil Pollution Volume 22, Number 1, 15-26. January 1984.
- Tate, Michael, et al. Wastewater stabilization lagoon – are they still an option. Proceedings of the 52nd Annual Kansas University Environmental Engineering Conference, February 6, 2002.
- Stiles, Thomas C., and Tate, Michael B. Bacteria TMDLS: overlaying water quality, hydrology and corrective measures on stream recreation. Proceedings of the Water Environment Federation, TMDL 2007, pp. 793-810(18)
- Stiles, Thomas C., and Tate, Michael B. Managing Bacteria TMDLs by overlaying water quality, hydrology and corrective measures on stream recreation. Water Practice, Volume 2, Number 1, January 2008, pp. 1-13(13)
- National Research Council. 2012. Review of the EPA's Economic Analysis of Final Water Quality Standards for Nutrients for Lakes and Flowing Waters in Florida. Washington, DC: The National Academies Press.
- Water Environment Federation. 2015. The Nutrient Roadmap. Washington, DC: Water Environment Federation.

Honors

- Association of Clean Water Administrators 2016 Environmental Statesman Award
- EPA Region 7 2016 Individual Scientific/Technical Contribution
- The National Association of Clean Water Agencies 2013 National Environmental Achievement Award recipient for State Public Service
- Association of Clean Water Administrators 2012 President's Award recipient
- Fort Scott Community College 2012 Jim Current Professional Excellence Award recipient

References

References are available on request.