

RESUME

My-Linh Nguyen, Ph.D., P.E.

Relevant Experience

2020 – Present *Administrator 2, Professional Engineer*, Nevada Department of Transportation, Carson City, Nevada

- ◆ Chief of the Environmental Division – Leads a team of 44 professionals, engineers and scientists, in overseeing the Stormwater and Environmental Services Programs to promote environmental stewardship, increase awareness and ensure environmental compliance for all Department construction, maintenance, and permitting activities.
- ◆ Ensures the Department’s operations are compliant with State and federal requirements for water and air quality permitting, hazardous material management, and in the preservation/protection of the State’s natural, biological and cultural resources.
- ◆ Serves as the primary contact with local, state, federal regulatory and resources agencies, other public entities and organizations, and the public on environmental matters.

2006 - 2020 *Nevada Division of Environmental Protection*, Department of Conservation & Natural Resources, Carson City, Nevada

- ◆ *Chief of Environmental Programs*– Bureau Chief of Safe Drinking Water (2015 – 2020)
Led a team of 31 professionals responsible for permitting and compliance oversight of ~600 Nevada public water systems (PWSs) to ensure provision of safe and reliable drinking water supply throughout Nevada.

Ensured protection of public health and the environment through effective management of complex regulatory and voluntary programs that oversee all aspects of the public water system supervision and enforcement, engineering review, laboratory certification, water system operator certification, vulnerability assessment and source water protection.

- ◆ *Supervisor Professional Engineer* – Bureau of Water Pollution Control (2011 – 2015)
Supervised a team of engineers and environmental scientist to effectively coordinate efforts to collect, manage, use and disseminate information to protect the quality of waters of the state from any adverse effects resulting from discharges.

Administered the Wastewater Operator Certification Program to ensure protection of public health and the environment through on-going training, testing and certification of operators in direct responsible charge of wastewater treatment plants operation.

Coordinated the Nevada Source Water Protection (SWP) Program to protect waters of the State through outreach, research, GIS tool implementation, technical assistance and supporting community planning and implementation under the Integrated Source Water Protection Program, recognized as the most progressive program among EPA Region 9 states.

- ◆ *Professional Engineer* - Bureau of Water Pollution Control (2006 – 2011)
Developed and implemented the statewide voluntary Source Water Protection (SWP) Program to protect waters of the State through technical review and assistance, collaboration, and coordinating activities among local, state, and federal agencies.

Evaluated hydrologic conditions and water quality trends; examined existing and emerging sources of contaminants in water supply; drafted guidance and policy for water reclamation and indirect potable reuse; and developed and implemented GIS tools and datasets to assist permitting and facilitate source water protection planning and implementation.

- 2003 – 2006 *Project Manager*, Water Research Foundation (formerly AwwaRF), Denver, Colorado
- ◆ Managed research projects that innovate and optimize water treatment and water quality management.
 - ◆ Facilitated technical workgroups of multi-disciplinary stakeholders to identify and prioritize research needs, develop project descriptions, and propose annual research agendas for funding considerations by the Board of Trustees and/or national and international research partners.
 - ◆ Reviewed research outcome to address stakeholders’ questions and needs for practical applications and identify knowledge gaps. Participated in national and international technical workgroups and task forces organized by the AWWA, USEPA, the Water Research Foundation, and the Global Water Research Coalition (GWRC).
- 1998 – 2002 *Graduate Research Associate*, Civil & Environmental Engineering, Arizona State University Tempe, Arizona
- ◆ Planned and coordinated with a multi-disciplinary research team to investigate the impact of hydrologic variability on water quality and treatability for the Phoenix, AZ metropolitan municipal water supplies.
 - ◆ Co-authored peer-reviewed papers, technical reports and presentations at regional and national meetings.

Professional Engineer Licensure and Certification

- ◆ Nevada Board of Professional Engineers & Land Surveyors (#18172).
- ◆ Colorado Board of Licensure: Architects, Professional Engineers & Professional Land Surveyors (#40289).
- ◆ Nevada Certified Public Manager (May 2017).

Professional Participations

- ◆ Boards and Council membership:
 - *Nevada Water Innovation Institute (UNR-NWII)*, Board of Advisors (2021-present)
 - *Association of State Drinking Water Administrators*, Board of Directors (2018-2019)
 - *Nevada Board for Financing Water Projects*, ex-officio Member (2015-2020)
 - *Lake Tahoe Science Advisory Council*, Nevada ex-officio Member (2016-2020)
- ◆ Volunteering:
 - *Tahoe Environmental Research Center*, Docent – Summer 2013 & 2014.
 - *Intel International Science and Engineering Fair*, Grand Award Judge - 2009, 2010, and 2013.
 - *Portuguese Foundation for Science and Technology*, Proposal Reviewer – 2012.
 - *Water Research Foundation*, Technical Review & Project Advisory Committees – 2009 & 2010.
 - *National Oceanic & Atmospheric Administration*, Proposal Reviewer – 2004 National Sea Grant College Program.
- ◆ Technical Peer Review:
 - *Journal of the American Water Works Association (Journal AWWA)*
 - *Water Research, Journal of the International Water Association, Elsevier Publishing*
 - *Journal of the Nevada Water Resources Association (JNWRA)*
- ◆ External Review and Contribution:
 - “Guidelines for Water Reuse” (2012 update). *US Environmental Protection Agency and US Agency for International Development*.
 - “Task Force on the Minimum Concentration of Calcium, Magnesium and Hardness” (2005 – 2006). *Global Water Research Coalition Report*, International Water Association (affiliate), UK.
 - “Technologies and Techniques for Early Warning Systems to Monitor and Evaluate Drinking Water Quality: State-of-the-Art Review” (2005). *US Environmental Protection Agency Research Report*, Office of Research and Development, National Homeland Security Research Center.

Professional Organization Membership

- ◆ Nevada Water Resources Association, NWRA (2015 – present)
- ◆ American Society of Civil Engineers, ASCE: Member (2007- present)
- ◆ American Chemical Society, ACS: Division of Environmental Chemistry (2003 – present)
- ◆ American Water Works Association, AWWA (1998 – present)

Education

- ◆ Ph.D. Civil Engineering (2002) - Arizona State University, Tempe, Arizona, USA
- ◆ M.S. Civil Engineering (1997) - University of Nevada, Reno, Nevada, USA
- ◆ B.S. Civil Engineering (1996) - University of Nevada, Reno, Nevada, USA

Honors and Awards

- ◆ ASU College of Engineering and Applied Science Dean’s Graduate Scholar Award (2000-2001)
- ◆ Arizona Water Pollution and Control Association Scholarship Award (2000)
- ◆ Chi Epsilon, Civil Engineering Honor Society – ASU Student Chapter, President (1999-2000)
- ◆ UNR College of Engineering Honors in Research (Scholarship) Award (1995-1996)
- ◆ Golden Key National Honor Society– Member (1994)
- ◆ Tau Beta Pi, Engineering Honor Society– Member (1994)

Peer-Reviewed & other Publications

1. **Nguyen, M. L.**, Westerhoff, P., Baker, L., Esparza-Soto, M., Hu, Q., Sommerfeld, M. (2005) “Characteristics and Reactivity of Algae-Produced Dissolved Organic Carbon.” *Journal of Environmental Engineering*, 131:11 (1574-1582).
2. Mash, H., Westerhoff, P., Baker, L., Nieman, R., **Nguyen, M. L.** (2004) “Dissolved organic matter in Arizona reservoirs: assessment of carbonaceous sources.” *Organic Geochemistry*, 35:7 (831-843).
3. **Nguyen, M. L.**, L. A. Baker, and P. K. Westerhoff. (2002) "Dissolved organic carbon and DBP precursors in western US watersheds and reservoirs." *Journal AWWA*, 95:5(98-112).
4. Mons, M., van Dijk, J.C., Gatel, D., Hesse, S., Hofman, J.A.M.H., **Nguyen, M. L.** (2007) “Softening, conditioning and the optimal composition of drinking water.” *International Water Association - Water21 Magazine*, February Issue, pp. 19-21.
5. Mons, M., van Dijk, J.C., Gatel, D., Hesse, S., Hofman, J.A.M.H., **Nguyen, M. L.** (2007) “Drinking water hardness: Reasons and criteria for softening and the conditioning of drinking water.” Final Report, *Global Water Research Coalition*. London, United Kingdoms.
6. **Nguyen, M. L.** (2004) “Focus on emerging issues: Distribution System Water Quality.” Feature Article. The Awwa (Water) Research Foundation *Drinking Water Research*, 14 (6): 2-5.

Conference and Invited Presentations

1. **Nguyen, M. L.** “Stormwater Management at the Nevada Department of Transportation.” *Environmental Engineering Seminar Series*, Department of Civil and Environmental Engineering, University of Nevada-Reno. March 2, 2021.
2. **Nguyen, M. L.** “Nevada Drinking Water Program Regulatory Review.” *American Water Works Association, California – Nevada Section Annual Conference* in San Diego, NV. October 21-24, 2019.
3. **Nguyen, M. L.** and Seifert, A. “Legionella in Premise Plumbing: Nevada’s Experience.” *US EPA Region 9 Drinking Water Program Directors’ Meeting* in Sacramento, CA. May 9-11, 2019.
4. **Nguyen, M. L.** “Legionella in Drinking Water: How Did Nevada Become Involved?” *Association of State Drinking Water Administrators, Annual Conference* in Des Moines, IA. October 22-24, 2018.

5. **Nguyen, M. L.** “Nevada Drinking Water Program Review and Update.” *American Water Works Association, California – Nevada Section Annual Conference* in Reno, NV. October 22-26, 2017.
6. **Nguyen, M. L.** “Water Re-use in Nevada.” *International Conference on Sustainability & Environmental Protection, CAEPA* in San Francisco, CA. October 12-13, 2013.
7. Miller, C., Williams, A., and **Nguyen, M. L.** “How States Are Utilizing GIS to Provide Source Water Protection Information to the Public.” *Western States Source Water Protection Forum* in Sun Valley, Idaho. October 23-25, 2012.
8. **Nguyen, M. L.** “Using Geographical Information System to Implement Source Water Protection Activities at the State and Local Levels” *Environmental Engineering Seminar Series*, Department of Civil and Environmental Engineering, University of Nevada-Reno. April 10, 2010.
9. **Nguyen, M. L.** “Nevada’s Source Water Protection: Program & Activities.” *Nevada Association of Public Works Association - Spring Conference* in Mesquite, Nevada. April 29 – May 1, 2009.
10. Land, R. and **M. L. Nguyen.** “Nitrates in Nevada: State Groundwater Protection Activities.” *Nevada Water Resources Association - Nitrates in Nevada Groundwater Workshop* in Carson City, Nevada. August 9 – 10, 2007.
11. Mons, M., van Dijk, J.C., Gatel, D., Hesse, S., Hofman, J.A.M.H., Nguyen, M. L. “Drinking water hardness: Review of Reasons and criteria for softening and the optimal composition of drinking water.” *International Symposium on Health Aspects of Calcium and Magnesium in Drinking Water* in Baltimore, Maryland, USA. April 24-26, 2006.
12. **Nguyen, M. L.** “Disaster Response and Recovery: Update.” *American Water Works Association (AWWA), Water Quality and Technology Conference* in Quebec City, Canada. November 6 – 10, 2005.
13. Hu, Q., Sommerfeld, M., Dempster, T., Westerhoff, P., Baker, L., and Nguyen, M. L. “Production and release of geosmin by the cyanobacterium *Oscillatoria splendida* isolated from Phoenix, AZ water source.” *Phycological Society of America, Annual Meeting* in Estes Park, Colorado. July 25-29, 2001.
14. Bruce D., Westerhoff, P., Sommerfeld, M., Baker, L., Nguyen, M. L., Hu, Q., Dempster, T., and Lowry, D. “Production, sources and degradation of algal metabolites in Arizona reservoirs, rivers and canals.” *AWWA Annual Conference* in Washington D.C. June 12-17, 2001.
15. **Nguyen, M. L.**, Westerhoff, P., He, Q. “Sources and transport of DOC/DBP precursors in the Central Arizona Project (CAP) and the Salt River Project (SRP) canals.” *Arizona Water Pollution Control Association (AWPCA) Conference* in Mesa, Arizona. May 4-7, 2000.
16. **Nguyen, M. L.**, Baker, L., and Westerhoff, P. “Assessing DOC sources in arid regions watershed and reservoirs.” *AWWA Annual Conference* in Chicago, Illinois. June 20-24, 1999.