LYNETTE STEVENS GUEVARA

Summary of Qualifications:

Thirty+ years of experience in natural resources protection and management with emphasis on water quality monitoring, assessment, and restoration. Major strengths include project management and collaboration, data management and interpretation, technical report preparation and editing, and developing tools and techniques to increase efficiency.

Professional Experience:

11/22 – present New Mexico Environment Dept. Surface Water Quality Bureau, Santa Fe, NM

Monitoring, Assessment, and Standards Section Program Manager

- Managed a group of fourteen technical staff including supervising three team leaders to:
  - Monitor, assess, and report on surface water quality conditions around New Mexico
  - Develop, revise, and maintain New Mexico's related surface water quality standards
  - Develop total maximum daily load (TMDL) planning documents to address impairments
  - Provide related assistance and support to other Bureau sections and stakeholders as needed
- Complete program management activities including grant writing, funding allocations, hiring, and performance reviews
- Prepare and implement EPA grants applications and revisions, associated workplans, and budgets designed to achieve Department and Bureau goals
- Actively participate on various EPA and state counterpart workgroups regarding water quality policy, implementation, guidance, and strategies to achieve Clean Water Act goals and deliverables
- Actively collaborate with other NMED Water Protection Division bureau management and staff on collaborative projects and initiatives to move the Department forward

11/20- 10/22 New Mexico Environment Dept. Ground Water Quality Bureau, Santa Fe, NM

Pollution Prevention Section Reuse Team Leader

- Serve as in-house expert for above-ground use of reclaimed domestic wastewater and aquifer recovery and storage permits to encourage successful implementation of water reuse projects
- Maintain individual groundwater discharge permit case load, provide review and comment on all permits with reuse components, and contribute to the oversight of all discharge permits managed by the Section
- Research and propose IT modernization tools to provide e-Permitting and e-Reporting tools to increase efficiency, compliance, and transparency
- Manage CWA 319 grant including workplans, budgeting, and reporting
- Hire and supervise and manage a team of three technical staff

08/01 – 11/20 New Mexico Environment Dept. Surface Water Quality Bureau, Santa Fe, NM

State on New Mexico Clean Water Act §303(d)/ §305(b) Assessment Coordinator (2001-2020)

Project management duties performed to develop and maintain the biennial Clean Water Act §303(d)/ §305(b) Integrated Report and List to Congress:

- Collated and assessed chemical, physical, and biological data to determine surface water quality impairments based on current water quality standards in 20.6.4 NMAC
- Developed and applied assessment protocols used to determine water quality attainment
- Developed automated assessment procedures in R statistical programming language
- Collaborated with NMED IT and USEPA Office of Water to merge and improve NMED inhouse and

national water quality monitoring and assessment databases
- Presented to the NM Water Quality Control Commission (WQCC) and EPA Region 6 for approval
- Prepared and presented testimony to the NM WQCC regarding Outstanding National Resource Waters (ONRW) nominations in the Valle Vidal and to defend impairment determinations
- Participated in various EPA and state counterpart workgroups and national conferences regarding Clean Water Act policy, procedures, and deliverables
- Collaborated with the USDA National Sedimentation Lab to develop sedimentation assessment protocols for the San Juan River basin
- Collaborated with the EPA Office of Research and Development and EPA Region 6 to develop sedimentation and nutrient assessment protocols and monitoring techniques

Monitoring and Assessment Section Program Manager (2004-2006)
- Managed a group of twelve technical staff including supervising three team leaders in order to monitor, assess, and report on surface water quality conditions around New Mexico
- Participated in grant writing, funding allocations, hiring, and performance reviews
- Developed Requests for Proposals and participated in selection of funding recipients
- Prepared and implemented strategic plans, associated workplans, and budgets designed to achieve Department and Bureau goals through implementation of several EPA grants
- Developed and presented budget requests for NMED and EPA to meet program goals

Monitoring and Assessment Section TMDL, GIS and Database Team Leader (2001-2003)
- Supervised and managed three technical staff to develop total maximum daily load (TMDL) water quality planning documents, GIS tools, and water quality databases for the Section
- Participated in hiring, performance reviews, and completing team goals to support the Bureau.
- Developed team timelines and specific TMDL, GIS, and database tasks and products needed to accomplish goals, and participated in the evolution of the Monitoring and Assessment Section
- Developed, public noticed, and presented TMDL water quality planning documents to stakeholders and the NM WQCC to address identified water quality impairments

05/97 – 08/01 Navajo Nation, Window Rock, AZ

Hydrologist II, Navajo Nation EPA Water Quality Program (02/99 -08/01)
- Project management, including the proposal and implementation of watershed restoration projects; designing monitoring networks; preparing outreach materials, presentations, and technical reports; and coordinating activities with federal tribal and federal land management partners
- Developed bioassessment monitoring program, associated quality assurance project plans, and provided training to staff and students
- Coordinated surface water quality sampling, interpreted data, and prepared summary reports

Hydrologist II/Supervisor, Navajo Nation Water Management Branch (05/97 -02/99)
- Supervised and managed stream gage and watershed restoration staff, including hiring, training, evaluations, budgeting, and ensuring deliverables were met
- Project management of watershed restoration projects with tribal and federal land management partners, including the development of RFPs, contracts, workplans, work schedules, permits, project budgets, and monitoring networks
- Maintained nine active continuous stream gages - coordinated with USGS, ordered needed equipment, surveyed benchmarks, measured stream flow, developed rating curves, and assisted with water monitoring design of irrigation canals

Education:

Bachelor of Business Administration (Marketing), Gonzaga University, Spokane, WA

Post-baccalaureate coursework at University of Washington and Shoreline CC, Seattle, WA
Master of Science (Watershed Science), Colorado State University, Fort Collins, CO

Computer Skills:

MS Office, Oracle database design team, SSTEMP modeling, RStudio programming, ArcGIS, website maintenance

Interests / Hobbies:

Founding treasurer of Wild Sage Co-op (now La Montanita) Gallup branch, past Parent-Teacher-Kid Association board member, bike-to-school and community trails advocate, mountain biking, skiing, hiking

Publications and Presentations:

Guevara, L. 2003. The challenges and opportunities of implementing TMDLs in states with no instream flow program. In proceedings of *ASAE Conference on Emerging TMDL Issues*. Albuquerque, NM.

Guevara, L. 2012. Determining sediment impairment in New Mexico using biologic and geomorphic sediment thresholds. In proceedings of *National Water Quality Monitoring Conference*. Portland, OR. Available at: http://acwi.gov/monitoring/conference/2012/.

Hughes, R., *et. al*. 2022. Biological assessment of western USA sand-bed rivers based on modeling historical and current fish and macroinvertebrate data. River Research and Applications 38: Issue 4, 639-656. Available at: https://onlinelibrary.wiley.com/doi/10.1002/rra.3929.

Irwin, R. and L. Stevens. 1996. Psuedoreplication issues versus hypothesis testing and field study designs: Alternative study designs and statistical analyses help prevent data misinterpretation. Park Science. Spring 1996. National Park Service, Denver, CO.

Irwin, R.; Stevens, L.; and M. Van Mouwerik, M. 1998. Environmental Contaminants Encyclopedia: Integrated Resource Management Application. National Park Service, Ft. Collins, CO. Available at: Environmental Contaminants Encyclopedia. Available at: https://irma.nps.gov/DataStore/Reference/Profile/2257033.

Jessup, B.K., D. Eib, L. Guevara, J. Hogan, F. John, S. Joseph, P. Kaufmann, and A. Kosfiszer. 2010. Sediment in New Mexico Streams: Existing conditions and potential benchmarks. Prepared for the EPA Region 6, Dallas, TX and the New Mexico Environment Department, Santa Fe, NM. Available at: http://www.nmenv.state.nm.us/swqb/Sedimentation/.

Jessup, B.K., P. Kaufmann, F. John, L. Guevara, and S. Joseph. 2014. Bedded Sediment Conditions and Macroinvertebrate Responses in New Mexico Streams: A First Step in Establishing Sediment Criteria. Journal of American Water Resources Association. July. Volume 50, Issue 6.

Stevens, L.I. 1996. Benthic macroinvertebrates as indicators of water quality. Master's thesis. Department of Earth Resources, Colorado State University, Ft. Collins, CO.

Viera, N., W. Clements, L. Guevara, and B. Jacobs. 2004. Resistance and resilience of stream insect communities to repeated hydrologic disturbances after a wildfire. Freshwater Biology 49: 1243-1259.