

# Jennifer T. Fullam

## WORK HISTORY

March 2017- Present

State of New Mexico Environment Department, Santa Fe, New Mexico

Surface Water Quality Bureau

Standards, Planning and Reporting (SPR) Team Supervisor

- Serve as the coordinator for New Mexico's surface water quality standards which includes but is not limited to applying the procedures established for adopting changes to the surface water quality standards, petitioning for a hearing to the Water Quality Control Commission (WQCC), preparing and advertising public notices, providing written and oral testimony for a hearing before the WQCC, preparing for cross examination, understanding and applying hearing guidelines, assisting with the development of post-hearing submittals and filing rule changes to State Records and Archives in accordance with 20.1.24.10 NMAC.
- Maintain knowledge of State and Federal statutory requirements that affect surface water quality standards and standards development.
- Coordinate with the United States Environmental Protection Agency (EPA) on actions pertaining to the State's Water Quality Standards and the Federal Clean Water Act. This includes submitting surface water quality standards (new and revised) to EPA Region 6 for review and action (approval or disapproval).
- Conduct and review use attainability analysis and hydrology protocol surveys which propose to revise, remove or add segment specific water quality standards to 20.6.4 NMAC.
- Responsible for the daily management and oversight of work conducted by the Standards, Planning and Reporting Team which oversees the implementation of the Bureau's Quality Assurance requirements, technical and educational outreach activities and development of regulatory and rulemaking actions.
- Review and revise the Water Quality Management Plan and Continuing Planning Process as required under the Clean Water Act.
- Coordinate and provide guidance and appropriate training for staff on program procedures.
- Ensure that all written work products from the SPR team are of high quality, reflect the professionalism of the Bureau and Department, and support New Mexico Environment Department's (NMED's) role as the lead agency for surface water quality protection in New Mexico.
- Conduct employee performance reviews of staff under the SPR Team.
- Conduct recruitment, disciplinary and hiring actions in accordance with State Personnel and Human Resources policies and procedures.
- Conduct technical and educational public outreach for proposed rulemaking actions to the surface water quality standards. This includes coordinating public notices through the website, listserv, newspapers, media releases and public meetings, providing technical and regulatory information from members of the public and recognized stakeholders.
- Collaborate and facilitate dialogue with Tribes on water quality standard issues. Reviewing Tribal Water Quality Standards and providing input, as applicable.
- Participate on national issues pertaining to water quality standards such as variances, proposed rules on Waters of the United States (WOTUS) and proposed guidelines for standards.

- Facilitate positive working relationships with other state and federal agencies, stakeholders and cooperators involved in surface water quality standards activities.
- Oversee the development of quality assurance guidance documents such as the Quality Management Plan (QMP) and Quality Assurance Project Plan (QAPP), Standard Operating Procedures and Field Sampling Plans
- Oversee the Quality Assurance Manager responsible for quality assurance activities pertaining to surface water data collection both within the Bureau and with outside entities seeking to submit water quality data for assessment purposes.

March 2014-March 2017

State of New Mexico Environment Department, Santa Fe, New Mexico

Petroleum Storage Tank Bureau

Compliance Assistance Coordinator/Environmental Scientist Specialist-A

- Responsible for the implementation and daily management of the Delivery Prohibition enforcement program.
- Development and implementation of strategic data management processes.
- Create and maintain tracking tools to assist in data collection and case management.
- Effectively track specific violations and enforcement actions for approximately 300 new cases (1300 individual violations) per year in a consistent, objective and timely manner.
- Compile information, through active data mining within these internal tracking applications, the Department's database and facility owner's files, to be able to provide compliance and enforcement statistics to meet the Federal Environmental Protection Agency's mandates and State reporting requirements.
- Effectively communicate, both verbally as well as in writing to various audiences including peers, management, regulated community and legal counsel.
- Review and clarify observations documented by the inspectors in the field and prepare a legally defensible enforcement case.
- In the event enforcement actions are appealed to the Secretary, assist in preparing testimony for a hearing.
- Apply knowledge of Federal (specifically 40 CFR §280) and State regulations (20.5 NMAC) with technical and legal writing skills experience to draft and edit enforcement documents.
- Involved in the development of new regulations to meet 40 CFR § 280.
- Regularly coordinate with the Bureau Chief and Program Managers within the Bureau
- Seek input and collaborate with staff from other Bureaus as it applies towards implementation of State and Federal Regulations.
- Network with other States and Tribes on processes and regulatory implementation.
- Provide written and verbal notification to facility owners of upcoming enforcement actions and offer assistance on actions required to obtain compliance.
- Maintain open communication with inspectors to assemble the chronological histories of ongoing outreach with owners and operators facing enforcement actions.
- Gather, collaborate and discuss ongoing applicability of the regulations and disseminate this information to inspectors to ensure continuity within the delivery prohibition program.
- Manage and delegate tasks to technical and administrative staff assisting with the delivery prohibition program.
- Serve as a Bureau-wide web author, updating the Bureau's website as necessary using cloud based programs and Adobe Contribute.
- Assist with additional projects such as with the development of standard operating procedures for the Prevention Inspection Program and database development and management.

- Assist the Bureau's Prevention Inspection Program by contributing to the ongoing program development and conducting compliance inspections at facilities around the State; which requires knowledge of the technical aspects of both UST and AST systems.

July 2007- March 2014

State of New Mexico Environment Department, Santa Fe, New Mexico

Ground Water Quality Bureau

Pollution Prevention Section

Environmental Scientist-O

- Ensuring the protection of ground water throughout the State of New Mexico by regulatory management for over 70 ground water discharge permits. The diversity of sites range from large federal industrial facilities, large domestic wastewater treatment plants and small septic tank/leachfield systems.
- Administering regulatory functions as they pertain to permitted and un-permitted facilities. Actions include but are not limited to management of records subject to the public information act, data entry of facility monitoring reports, database management for assigned facilities, ground water and wastewater sampling, response to unauthorized releases and enforcement actions.
- Successfully worked with Permittees and the general public in achieving voluntary compliance through non-enforcement actions. Refined experience in assessing potentially volatile situations and diffusing with effective and clear communication. Ground water protection has also been achieved through promoting cost-effective and source control mechanisms to reduce potential contaminants from reaching ground water. Discharge Permits are designed to address protection of ground water and human health while working towards long-term sustainability of small businesses.
- Maintain and continuously enhancing an already robust understanding of Federal Regulations such as the Clean Water Act, Resource Conservation and Recovery Act, Biosolids Standards the State of New Mexico's Clean Water act, Water Quality Control Commission regulations which have been used for evaluating site specific conditions and development of priority actions.
- Ongoing coordination and collaboration with Tribal entities including but not limited to compiling the annual Tribal Collaboration report for the Ground Water Quality Bureau, participation in the Annual Tribal Summit, planning and serving as a mentor and instructor for the annual Tribal Youth Environmental Science Camp.
- Effectively facilitate dialogue among a diverse group of individuals, with varying backgrounds and expertise, in order to develop and strategize a productive approach in resolving complex issues. Ongoing work includes facilitation of discussions between the GWQB, Hazardous Waste Bureau, Department of Energy Oversight Bureau, Surface Water Bureau and Los Alamos National Laboratory in order to maintain regulatory compliance and cross-departmental communications for the management of the facility.
- Provide assistance to legal counsel on litigation cases. These have included involvement with a federal negotiation case with the Hazardous Waste Bureau and Los Alamos National Laboratory as well as a Chapter 11 Bankruptcy Lawsuit against Mark IV Industries for the continued remediation of a contaminated ground water site in east Albuquerque which resulted in an Order of Consent.
- Actively participated and spearheaded discussions in various workgroups within the section to enhance the regulatory process and streamline the efficiency of the program to ensure protection of the State's resources as well as promoting economic development for rural communities. These have included the development of Best Management Practices for RV

Parks, Tribal Consultation Policy, Grease Trap Management Practices and Domestic Wastewater Discharge Permit Template.

- Development of sound investigative skills to truth information submitted to NMED through remote sensing technologies, ground-truthing or through various technological resources.
- Development of internal mechanisms and processes to effectively manage and increase efficiency in the management of regulatory processes.
- Serve as a Quality Assurance Manager (QAM) for the Radiation Control Bureau's Quality Assurance Project Plan (QAPP) ensuring all data collection activities are collected in a consistent and defensible manner.
- Applying federal laws and regulations, effective approaches to gain voluntary compliance and general management tools and resources to increase efficacy in job performance.
- General program administration functions to include preparing timesheets, vehicle logs, travel requests, along with submitting quarterly and annual reports to management as assigned.

April 2003-July 2007

Pueblo of Tesuque, Santa Fe, New Mexico

Environment Department

Biologist/Director

- Responsible for overseeing the management and execution of activities associated with the protection of environmental resources. The program included surface water quality, water rights, ground water, planning and development, forest restoration, wildlife habitat management, wildland fire response, emergency response as it pertained to the community and potential environmental impacts, general community assistance, education (pre-k through college) and outreach.
- Reported directly to the Tribal Administrator, Governor and Tribal Council on the department's activities.
- Supervised up to 11 individuals on routine and special projects undertaken by the department which included but were not limited to surface water, forest restoration, WUI fire suppression projects, wildlife surveys and habitat assessments, economic development projects, Aamodt water rights settlement committee, community activities, educational outreach (kindergarten through college), assistance with organic farm program, community assistance as requested.
- Worked and collaborated with numerous federal, state and local government agencies such as the Environmental Protection Agency (EPA), Army Corp of Engineers, Bureau of Indian Affairs, Indian Health Services, State of New Mexico Environment Department, Santa Fe County, City of Santa Fe, and various Tribal governments.
- Responsible for writing and managing over \$1,000,000.00 in State and Federal grants through the U.S. Forest Service, Administration for Native Americans, Environmental Protection Agency, U.S. Fish and Wildlife, and New Mexico Clean and Beautiful, submitting quarterly and annual reports on a regular basis as well as auditing expenses to ensure allocation of funds was completed and reported appropriately.
- Served as a member on the Tribal Emergency Planning committee and Land Use Planning Committee, Board member of Inter-Tribal Bison Cooperative, Inter-Tribal Resource Advisory Committee, and Water Rights Committee and as a voting member for EPA Region 6 Regional Tribal Operations Committee.
- Responsible for writing and implementing Quality Assurance documents and the department's annual Quality Management Plan, Quality Assurance Project Plans for water quality monitoring, GIS/GPS, and the Elk Demonstration Project.
- Prepared and conducted the triennial review of Tesuque Pueblo's Water Quality Standards.

- Actively engaged with community members to better understand the needs and priorities of the Tribe in order to effectively target financial mechanisms and internal resources which could be utilized to achieve long-term goals.
- Designed and implemented a multi-parameter study to assess movement and habitat utilization of elk herds within lower pinon/juniper forests of Tesuque Pueblo. Field work consisted of off-road driving and heavy lifting of equipment and supplies, remote sensing and data management.
- Use of various field equipment for work pertaining to water quality monitoring (ground and surface water), riparian ecosystem rehabilitation projects, wildlife habitat and behavior. Data correction and management of files.

January 2002- April 2003

Los Alamos National Laboratory, Los Alamos, New Mexico

Contaminant Monitoring Team

Graduate Research Assistant

- Provided technical research support for the Ecology Group including compiling, writing and editing portions of the published technical reports as well as the annual Environmental Surveillance Report.
- Collected and processed field samples from remote areas with a wide array of equipment.
- Analyzed data in MS Excel for risk assessment of contaminant such as high explosives, radionuclide, polychlorinated biphenyls (PCBs), dioxins, furans and pesticides such as DDT.
- Actively participated in a cooperative group with the New Mexico Environment Department, Los Alamos County and Tribal entities to design and implement a contaminant mobilization study in the Rio Grande to assess the possible PCB risk levels that may be associated with LANL's historic PCB releases and the potential of mobilization after the Cerro Grande fire using semi-permeable membrane devices (LANL Publication Gonzales and Montoya 2005).

## **EDUCATION**

2002-2008 New Mexico Highlands University, Las Vegas, New Mexico

Master of Science (May 2008)

- Thesis on the unique characteristics of elk movement and habitat utilization within the pinon/juniper forests of Tesuque Pueblo
- Other studies included toxicology, environmental assessment, surface hydrology, dendrology, wildlife habitat assessment and research methods
- Research on the use of semi-permeable membrane devices to assess the effects of pulse flooding events on PCB concentrations in the Rio Grande river near Los Alamos
- Cumulative GPA 4.0

1999-2002 University of New Mexico, Albuquerque, New Mexico

Bachelor of Science, Biology with minor in Geography (May 2001)

- Studies in riparian ecology, conservation biology, animal behavior, zoology and physiology.
- Formal studies and research in Geographical Information Systems.
- Graduated Cum Laude.

1994-1997 Northern New Mexico Community College, Espanola, New Mexico

Associate of Science in Science

- Graduated with Honors

## **APPLICABLE CERTIFICATIONS/TRAININGS**

Quality Assurance

- EPA QMP/QAPP Training, Santa Fe, NM(Certificate)
- EPA Training to Quality Assurance Management, Data Quality Objectives, Santa Fe, NM (Certificate)

#### Water and Wastewater

- EPA Tribal Water Quality Standards Academy Intermediate level (Certificate)
- EPA Water Quality Standards Academy, Washington D.C. (Certificate)
- NMSU WTAP Advanced Secondary Treatment (certificate)
- National Onsite Wastewater Recycling Association A to Z Course (certificate)
- YSI Training on 6920 Multi-parameter water quality monitoring unit, Yellow Springs, OH
- Stream Habitat Assessment Training, Taos Pueblo, NM
- Biological Assessment Training, Santa Ana Pueblo, NM
- Fundamentals of Drilling (certificate)

#### Emergency Response/Safety

- FEMA National Incident management System (IS-700) Tesuque Pueblo, NM (Certificate)
- BIA Northern Pueblos Wildland Firefighter Training (S-110, S-133, S-134, I-100, L-180, S-130, S-190), Ohkay Owingeh, NM (Red Card Certification)
- Pandemic Flu, Train the Trainer, Albuquerque, NM (Certificate)
- Zoonotic Disease Training, Los Alamos National Laboratory, Los Alamos, NM
- HAZWOPER certified (2007-2017)
- AHMP Essentials of Hazardous Materials Management, Albuquerque, NM (Certificate)
- U.S. Dept of Transportation Awareness for Initial Response to Haz-Mat Incidents Course (Certificate)
- National Safety Council Defensive Driving Course (Certificate)
- Swiftwater Rescue for River Professionals Training; Level II NFPA-compliant 1670 “Operations” (Certificate)

#### Inspection and Enforcement

- Western States Project NMED Environmental Enforcement Procedure Training (certificate)
- UST Inspector Training (Certificate)
- State of NM HR and OGC Inspector Training (certificate)

#### Lawmaking and Regulations

- State of NM State Rulemaking Training
- State of NM Records and Information Management Training

#### **PUBLICATIONS/PROFESSIONAL ORGANIZATIONS**

- Gonzales, G. and Montoya, J., 2005. Polychlorinated biphenyls (PCBs) in the Rio Grande Sampled Using Semi-permeable Membrane Devices. LA-14200.
- Fullam, J., 2008. Elk Habitat Utilization Within Lower Pinon Juniper Forests of Tesuque Pueblo, New Mexico Highlands University Graduate Thesis.
- Golden Key National Honor Society (2001-Present)
- Native American Fish and Wildlife Society (2003-2007)
- The Quivera Coalition (2003-2007)
- Ecological Society of America (2016)
- The Wildlife Society (2011-2017)
- Society of Environmental Toxicology and Applied Chemistry (2002-2007; 2017-Present)