

# ***Shon Simpson - Principal/Senior Project Manager***

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## ***Summary***

Mr. Simpson is a Principal with GBM<sup>c</sup> & Associates, Inc. He has over 24 years experience in water quality and environmental regulatory programs as a consultant and as both an Environmental Specialist and Chief of Water Quality for the Oklahoma Water Resources Board. As a consultant his experience includes serving as project manager for numerous NPDES permitting projects in Arkansas, Kansas, Missouri, Nebraska and Oklahoma including evaluation of state water quality criteria, and other studies relating to the implementation of state water quality standards through the National Pollutant Discharge Elimination System (NPDES) program. Mr. Simpson has conducted numerous special studies for clients including, watershed characterizations and management plan development, lake studies, site specific criteria development, water effect ratio studies, TMDL studies, water quality standards modifications, clean sampling and metals data evaluation, collection of soil, sediment and sludges using randomized sampling procedures, aquatic life studies, development of alternative regulatory approaches, and evaluation and remediation of a pipeline break into a large river backwater system. Mr. Simpson has also headed up numerous projects consisting of in depth reviews of large reservoir models, and small reservoir and watershed studies conducted by various government agencies.

During the past several years Mr. Simpson has gained considerable experience working with environmental attorneys both in support of industrial defendants interests in civil suits and adverse government regulatory actions. This support has primarily involved detailed assessments of the actual effect of an industrial or agricultural action on the environment compared with alleged effects.

## ***Education***

1981 BS Biology, University of Central Oklahoma

## ***Experience***

### ***Water Quality***

As a project manager and project scientist, Mr. Simpson has been involved in numerous Water Quality Studies with an emphasis on the implementation of State Water Quality Standards through NPDES permits, and water quality assessments. In this capacity, he developed procedures for modifying implementation procedures for toxic pollutants in Oklahoma and Kansas, conducted an extensive evaluation of water and sediment quality for a large river system in Arkansas and consulted on and successfully negotiated numerous NPDES permits for industrial clients. Mr. Simpson has experience and expertise in development of NPDES permit limitations based both on water quality and categorical effluent guidelines. As a Project Manger, Mr. Simpson was responsible for development of a water and wastewater management plan for an industrial site undergoing Nuclear Regulatory Decommissioning. Mr. Simpson has provided testimony to Governors' Water Quality Task Force proceedings in two states. Mr. Simpson has also provided technical assistance to poultry organizations in evaluating the effects of best management practices in reducing the potential for non-point source runoff and has provided the poultry industry with expertise in evaluation of regulatory issues related to Oklahoma's Water Quality Standards. Mr. Simpson has participated in development of wasteload allocation studies for the food processing, wood and paper products and refinery industries. Mr. Simpson has recently headed up watershed assessments in support of development of watershed scale management plans to reduce nutrients and the effects of watershed urbanization. Mr. Simpson has served as Senior Project Manager in a number of projects to support industrial defendants' litigation matters, including preparation of expert reports and expert testimony.

Mr. Simpson has developed expertise working with issues associated with the power generating industrial sector and has completed numerous projects associated with discharge of thermal and conventional pollutants for clients in the states of Arkansas, Oklahoma, Kansas and Nebraska.

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### **Biological Assessments and Criteria Development**

As an Environmental Specialist for the Oklahoma Water Resources Board, he developed Oklahoma's Use Attainability program and conducted dozens of intensive and abbreviated UAA's. Mr. Simpson has conducted numerous other biological and water quality assessment studies on streams and lakes, site specific criteria modification, and researched and authored several sections of Oklahoma's Water Quality Standards document. He has conducted and participated in numerous rapid bioassessments to evaluate potential effects of both point and non-point pollution sources on benthic and fish communities. Mr. Simpson has served as project manager for numerous aquatic life evaluation studies including determination of sources of impacts, biological health, water quality status, and habitat quality. Mr. Simpson acted as project manager for a complex water effect ratio study and hydraulic evaluation for a utility discharge. This effort was used to successfully amend copper criteria in state Water Quality Standards.

### **Regulatory**

As Chief of the Water Quality Division for the Oklahoma Water Resources Board, Mr. Simpson was responsible for a number of state regulatory programs including the Water Quality Standards Program, the Standards Implementation Program, (which serves as a translator mechanism for conversion of water quality criteria into NPDES permit limits and requirements), Oklahoma's Clean Lakes Program, Oklahoma's Laboratory Certification Program, a groundwater assessment and remediation program, US Army Corps of Engineers and Federal Energy Regulatory Commission Certification Programs and Citizens Complaints. In this capacity, he was responsible for revision of Oklahoma's Water Quality Standards during three major triennial revision processes and several annual updates. During those revisions, the Water Quality Standards were extensively altered; aquatic life and human health criteria added, applicability and implementation sections modified and the results of hundreds of Use Attainability Analyses based changes were made.

Mr. Simpson has negotiated NPDES permit issues for clients in Arkansas, Oklahoma, Kansas, Missouri and Nebraska.

### ***Professional Affiliations***

SETAC South Central Chapter (AR, TX, LA, OK, NM, KS)

Arkansas Environmental Federation

Continuing Planning Process Workgroup

Metals Implementation Sub-Committee

Oklahoma Environmental Federation, Water Quality Committee

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