



DAVID FLORES

SCIENTIST/BIOLOGIST

EDUCATION

Texas State University • 2006

- M.S. Aquatic Biology

Texas State University • 2003

- B.S. Aquatic Biology
- Minor in Chemistry

PROFESSIONAL TRAINING & CERTIFICATIONS

- National Pollution Discharge Elimination System (NPDES) permitting
- ArcGIS/QGIS
- California Air Resources Board (CARB) 100 series course
- Water Quality Standards – Environmental Protection Agency (EPA)
- Trimble RTK GPS
- YSI/Sontek data sonde and M9 Acoustic Doppler Current Profiler (ADCP)
- Aquatic Plant Identification
- Fish Identification
- Nielsen Environmental Sampling Field Course
- United States Army Corps of Engineers (USACE) Wetlands Training
- USACE 404/401 Permitting

AREAS OF EXPERTISE

Mr. Flores is the President and Principal Biologist for Arroyo Environmental Consultants, LLC (Arroyo). He has over 20 years of experience in water resources analysis and environmental field study design in many of the Texas river basins, including acting as a Project Principal and Project Manager for many projects in the following areas of expertise: water quality sampling and analysis, instream flows, bay and estuary inflow analyses, hydrographic surveys, environmental site assessments, riparian assessments, fish and insect identification, biological population surveys (terrestrial and aquatic), wetland determinations and delineations, environmental chemistry, river/stream micro- and meso-habitat assessments, threatened and endangered species assessments, Rivers and Harbors Act Section 10 permits, Clean Water Act Section 404/401 permits, and National and Texas Pollution Discharge Elimination System (NPDES and TPDES) permits. Mr. Flores has also served as an expert scientific witness for several environmental permitting actions.

Mr. Flores has worked for all three Texas environmental agencies (the Texas Commission on Environmental Quality [TCEQ], the Texas Parks and Wildlife Department [TPWD] and the Texas Water Development Board [TWDB]) and collaborated with federal resource agencies (USACE, the EPA and the United States Fish and Wildlife Service [USFWS]). While at TCEQ, Mr. Flores worked on the Water Quality Standards Team providing technical review of Section 404 Permits and issuing Section 401 Water Quality Certifications.

Mr. Flores is intimately familiar with various environmental ecosystems having led and assisted large- and small-scale data collection efforts (i.e. stream cross section surveys, water quality sampling) on the Brazos, Sabine, San Jacinto, Nueces, Colorado, Pecos, Devils, San Marcos, Lavaca, San Antonio, and Trinity Rivers, as well as several reservoirs and coastal bays.

EXPERIENCE

TPDES Permitting Actions (Multiple Clients) • 2015 – ongoing

Mr. Flores has successfully led and participated in numerous TPDES permitting actions including serving as an expert scientific witness as part of the contested case process. Mr. Flores led field data collection, analysis and reporting efforts that include stream physical habitat characterization, water quality, flow measurements, fish, macroinvertebrate and mussel community assessments, water quality data collection, riparian and instream habitat classification, aquatic vegetation surveys and nutrient screening. Mr. Flores has performed technical reviews of over 200 TPDES permit applications and has an in-depth understanding of the Texas Water Quality Standards and their implementation. Additionally, Mr. Flores developed an independent antidegradation review methodology which has been utilized during these processes.

Most Recent TPDES Projects

Legal Cases:

- TPDES Permit Action • 2021 - ongoing
- TPDES Permit Action • 2022 - ongoing
- TPDES Permit Action • 2021 - ongoing
- TPDES Permit Action • 2020 – ongoing
- TPDES Stormwater Litigation • 2020
- TPDES Stormwater Litigation • 2019
- TPDES Permit Action • 2019
- TPDES Permit Action • 2017
- TPDES Permit Action • 2017

Permitting Actions:

- TPDES Permit Action • 2019 – ongoing
- TPDES TLAP & Stormwater Permits • 2019 – ongoing
- TPDES Permit Action • 2019 – ongoing

