

MICHELE LIRA BIRMINGHAM

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SUMMARY

Fifteen years of environmental work including teaching, environmental training, consulting, field work, regulatory compliance, and government. Experience writing regulatory documents, presenting at national conferences, and composing communications. Seeking to leverage this professional experience and community mindset in creating a classroom where the next generation of environmental professionals can learn and grow.

EDUCATION

Texas Christian University, 2005

Master of Science, Environmental Science

Texas Christian University, 2003

Bachelor of Science, Environmental Science

TEACHING EXPERIENCE

Presenter & Program Designer, *City of Dallas Stormwater and City of Fort Worth Water Department*,
2014-Present

City educational outreach teacher/presenter for local schools and adult associations on stormwater, water conservation and water treatment. Developed presentations and activities. Presented information in a variety of formats including schools-elementary through High School, summer camps, after school programs, civics groups.

Environmental Consultant, *Environmental Trainers Inc.*, 2009-2012

Environmental consultant. Adult education and training. Topics included: Hazwoper 8hr and 40 hr, Hazcom, environmental regulations.

Teacher, *King High School*, 2007 - 2008

Developed syllabus and overall course structure for Astronomy, Physics I and biology classes including hands-on labs, handouts quizzes and tests. Classroom Management. Grading and reporting.

Teaching Assistant – Environmental Science, Geology, *Texas Christian University*, 2003-2005

Developed presentations and taught material based on lab book supporting freshman level environmental science and geology courses. Collaborated with Professors on course content. Classroom management. Grading and reporting.

WORK EXPERIENCE

City of Fort Worth, Water, 2014 - Present

Public Education Specialist, 2014-2016

Conservation Specialist, 2016-Present

Developed and presented to school levels elementary through high school, and adult associations on topics of water conservation and water treatment. Coordinated Waterama, a two-day water educational seminar for 4th grade Fort Worth ISD Students. Managed Sewer Science, a High School level lab including coordinating

with local teachers, assisting with presentations, ordering and maintaining lab gear. Developed and coordinated water department's social media content from 2014-2016.

Program coordinator of Water Departments conservation programs including SmartFlush Toilet Voucher Program, Industrial, Commercial and Institutional water audits, SmartRepair, a customer assistant leak repair program and an irrigation audit program called SmartIrrigation. Coordination includes program design, analysis, marketing, budgeting, communication, contracts, and customer service. Instrumental in writing five-year conservation plan. Collaborates with other departments and regional EPA office on various projects including an environmental 5K and the nationally recognized Loteria outreach that targets the Hispanic community across the United States. Conservation lead for new MyH2O program, Fort Worth's transition to automated metering infrastructure, implementing the first data driven communications and program strategy.

City of Dallas, Stormwater, 2012-2014

Environmental and Outreach Coordinator

Storm Water Pollution Prevention Plan and site reviews for construction sites. Industry education and presentations on stormwater compliance. School outreach and education including developing content and presentations. Marketing and budgeting for environmental communications.

Environmental Trainers Inc., 2009-2012

Environmental Consultant, Manager

Phase I and II environmental reports, lead, asbestos and surface and groundwater water sampling, Environmental Assessments, hazard classification. Technical report writing. Project management. Collaborating with other consultants. Environmental Training for Hazcom and Hazwoper.

Elizabeth Anna's Garden – Fort Worth, Texas, 2008-2009

Non-profit coordinator, Gardner

Coordinated urban gardening program including outreach, marketing, and managing events. Assisted in managing garden shop including customer service, cash register, identifying native and adaptive plants, vegetable gardening.

King High School – Tampa, Florida, 2007-2008

Teacher

Developed syllabus and overall course structure for Astronomy, Physics I and biology classes including hands-on labs, handouts quizzes and tests. Classroom Management. Grading and reporting.

Bureau Veritas – Tampa, Florida, 2005 - 2007

Environmental Consultant

Executed field work and composed Phase I and II environmental reports throughout the Southeastern United States and Puerto Rico. Technical report writing. Groundwater and surface water sampling. Surveying. Budgeting and client acquisition.

Mickey Leland Internship with TXU/Oncor Electric, Summers 2002 & 2003

Assisted with permit management and data entry. Identification of Endangered Species habitat.

AWARDS

Mickey Leland Internship Scholarship with Oncor Electric Company, 2002

Mickey Leland Internship Scholarship with Oncor Electric Company, 2003

United States Environmental Protection Agency, 2016
2016 WaterSense Excellence Award in Education and Outreach

United States Environmental Protection Agency, 2018
2018 WaterSense Promotional Partner of the Year for Outstanding Contributions

United States Environmental Protection Agency, 2022
2022 WaterSense Promotional Partner of the Year for Outstanding Contributions

PROFESSIONAL ACTIVITIES

Society of Environmental Professionals, 2009-2012

Water Efficiency Network of North Texas, 2016-Present

United States Environmental Protection Agency, WaterSense Conference, 2017—2019

North Texas Water Regional Water Conservation Symposium, 2014—Present

Texas Water Conference, 2016, 2019

American Water Works Association, 2016- Present

Alliance for Water Efficiency, 2016-Present

Water Environment Association of Texas, 2014-2016

PRESENTATIONS

"Influence of Soil Type on Soil Moisture on a Hillslope Hollow"- Poster Presentation, 2005

Water Conservation Plan, City of Fort Worth, 2019

First year discoveries. Using AMI data to change our Conservation Programs -
American Water Works Association, Sustainable Water Management
Conference 2022

EPA WaterSense Partner Webinar, *Focus on Drought*, July 2022

CERTIFICATIONS

40 hour HAZWOPER, 2005-2012, 2018

Texas Water Development Board, Water Audit Loss, 2020

Approved by Texas Board of Professional Geoscientists to sit for PG exam

LANGUAGES

English, *Native*

Spanish, *Working knowledge*