

Jodie Murray Burns, PWS, MEd, MS

Wetland Scientist and Stream Ecologist



SERVICE AREAS

Wetland Delineations and Determinations
CWA Sec 401/404 Permit Coordination
Wetland & Stream Mitigation
Stream Bioassessments & Monitoring
Natural Resource Inventories
Suitable Habitat Assessments
American Burying Beetle Surveys
Red-cockaded Woodpecker Surveys
Watershed Inventories
NEPA Report Writing
Trail Assessments & Inventories
Environmental Regulations Seminars

EDUCATION

M.S. Biological Sciences, 2001, University of Arkansas, Fayetteville, Arkansas
M.Ed. School Supervision, 1993, Abilene Christian University, Abilene, Texas
B.S. Biology, 1988, Harding University, Searcy, Arkansas

PERMITS / CERTIFICATIONS

Professional Wetland Scientist (PWS), SWSPCP Certified, Exp. Feb 2026
USFWS Federal Permit #ES76960D, Exp. 3/12/26, American burying beetle
State of OK Scientific Collector's Permit, ID 5237055, Exp. 12/31/24
State of AR Scientific Collector's Permit, AGFC #052420241, Exp. 5/24/25
State of KS Scientific Wildlife Permit, KDWP #200002301, Exp. 12/31/24

PROFESSIONAL MEMBERSHIPS

Society of Wetland Scientists (SWS): South Central Chapter Immediate Past President (2023-2025) & Oklahoma Education and Outreach Coordinator (2022-present); SWS Webinar Series Committee (2021-present)
Society of Freshwater Science, Member
National Association of Wetland Managers, Member

VOLUNTEER PROJECTS

USGS Wetland Field Assistant, White River National Wildlife Refuge, AR, LA, and MS. Studying the lat/long effects of climate change on select wetland ecosystems in the U.S., August 2017-present (seasonal)

QUALIFICATIONS

Jodie Murray Burns has over 16 years of experience working nationwide with environmental regulations associated with the Clean Water Act (Section 401/404 permits), Endangered Species Act and National Environmental Policy Act for commercial and residential developments, transportation projects, oil & gas projects, conservation/restoration projects, renewable energy projects, and climate change projects. Ms. Burns has worked with the implementation of federal and state environmental regulations within the states of Arkansas, Oklahoma, Missouri, Kansas, Texas, Kentucky, Louisiana, Tennessee, Indiana, Utah, Iowa, and Minnesota. Ms. Burns regularly presents seminars covering regulation changes, judicial decisions, and legislative actions regarding the Clean Water Act (i.e. Waters of the U.S. or WOTUS) and the Endangered Species Act (ESA).

PROJECT EXPERIENCE

Proposed Woodsonia Marketplace Project, Joplin, MO. Nov 2023-ongoing. WOTUS delineation and determination conducted on 76.6-acre site. Full suite of services being provided to meet COE federal permit requirements.

8th Street Gateway Park, City of Bentonville, Oct 2023-Mar 2024. WOTUS delineation and determination, along with acquiring a COE permit, for a proposed 86-acre park. Seven drains and three wetland areas were identified onsite. Park designed to avoid and minimize impacts to WOTUS areas.

Wastewater System Rehabilitation Project, Cities of Greenland & Fayetteville, AR. Mar 2022 – May 2023. WOTUS delineation and determination was performed on this 2.25-mile-long project to improve the cities' wastewater system. Twenty-seven drains and eight wetland areas were identified. Full suite of services was provided, including obtaining state WQC and meeting COE federal permit requirements.

The Pines Subdivision, Centerton, AR. Oct 2021 – ongoing. WOTUS delineation and determination was performed on a 160-acre project site. Thirteen potential WOTUS features, along with nearly a mile of streams, were documented. Full suite of services being provided to meet state and federal environmental regulations.

Federal Highway Administration & Arkansas Dept. of Transportation, I-49 Relocation, Ft. Smith, AR. Mar 2021-Feb 2023. Providing the T/E section of the Environmental Impact Statement Re-Evaluation document, habitat assessment, and a Biological Assessment (biological surveys and report) for the 1,546-acre project site (nearly 14 miles in length) between Arkansas Highway 22 and I-40. ESRI AGOL project map created to collect biological data and manage environmental specialists.

Industrial Drive Extension, City of Fayetteville, AR. Feb 2020 to Sept 2021. Assisted in writing an environmental narrative for the city's Econ. Dev. Admin. grant application for a proposed 60-acre project site. Wetland desktop analysis and IPaC process performed. Completed WOTUS report and AJD obtained for final project.

Grain Belt Express Transmission Line, KS & MO. Sept/Oct 2020. Lead wetland scientist for a 2-person field team that evaluated 40 miles of a proposed 800+ mile, multi-state overhead renewable energy electric transmission line for WOTUS. Sixty-one features (49 streams and 12 wetlands) mapped to submeter accuracy using ESRI Collector app and submeter GNSS receiver. T/E habitat assessed concurrently.

FHWA, Mark Twain National Forest, Audubon Trail & Low Water Crossing Projects, Missouri. July 2019. WOTUS delineations were conducted, and reports written about two project sites. Eleven WOTUS features (two wetlands and nine streams) were found within the 13 acres evaluated.

Multiple Wind Farm Developments, Oklahoma, American Burying Beetle Surveys, 2014-2019. Presence/Absence surveys were performed per the USFWS guidelines to assist clients in meeting ESA regulations and permitting requirements. A total of 122 assigned trap locations were surveyed.

Lone Star Express & West Texas II Transmission Line, West Texas, April-May 2019. Delineation of WOTUS on a proposed linear project (60+ miles of the team's 180-mile assignment) in West Texas - Rio Grande & Colorado River watersheds. Approximately 30+ features were documented and mapped to sub-meter accuracy using a Trimble Geo 7X.

Shoal Creek Stream Inventory, southwest Missouri, Fall 2017- Winter 2018. Project Manager: Coordination of a 55+ mile stream survey of bank stability areas and environmental features of interest to document current conditions. GIS database developed to assist in conservation and watershed-scale restoration planning efforts on the stream, a state COA.

Plains & Eastern Clean Line Transmission Line, Oklahoma & Arkansas, American Burying Beetle Surveys, Summer 2016. Presence/Absence surveys were performed per the USFWS guidelines on approximately 80 miles of the total 250 miles evaluated for ABB presence/absence of the proposed 720-mile transmission line.

City of Hulbert, Oklahoma, Environmental Assessment, Nov 2014-Feb 2015. NEPA report writer as a wetland scientist and assisted client in obtaining required USACE Nationwide Permit for project.

Northwest Arkansas Water Transmission Line (Two Ton Loop), Benton and Washington Counties, AR, 1995. Co-Project Manager: Responsible for coordinating endangered species surveys and documenting pre-impact stream habitat and wetlands impacts for the rural 70+ mile-long, two-county water transmission line.

ADDITIONAL QUALIFICATIONS

Publications / Presentations / Awards

SWS South Central Chapter Meeting, Cave City, KY, October 12-13, 2023. Presentation title: An Introduction and Review of the Beta Streamflow Duration Assessment Method (SDAM) for the Northeast and Southeast of the United States.

Society of Wetland Scientists Joint (South Central & Central) Chapter Meeting. Searcy, AR, October 6, 2022. Instructor - *Wetland Mapping & Emerging Technology* Workshop. Provided eight hours of training certified by the SWS PCP committee.

Public comments to the USEPA and US Corps of Engineers in a Public Web Conference about Re-Defining WOTUS, Aug 31, 2021.

KUAF 91.3/NPR National Correspondent Interview with Jacqueline Froelich about current WOTUS Regulations, Aug 26, 2021.

University of Arkansas, Fayetteville, AR. Agricultural Economics Class. April 6, 2020. Presentation Title: Keeping Up with the Current WOTUS Definition and Its Impacts on Agricultural Interests.

Society of Wetland Scientists - South Central Chapter Meeting, Galveston, TX. October 25, 2019. Presentation title: CWA Federal Policy Update – Recent Proposed Mitigation Rule and Section 401 Rule Changes by EPA & US Corps Of Engineers (COE).

Arkansas Water Resources Center's Annual Water Conference, Fayetteville, AR. July 31, 2019. Presentation Title: Status of WOTUS in Arkansas & A Case Study of Jurisdictional Issues Regarding Groundwater Protection.

Public Comments to the EPA and COE for the Society of Wetland Scientists' Policy & Regulation Section at the only Public Hearing for the 2019 Proposed Water of the U.S. Re-Definition, Kansas City, KS, Feb 28, 2019.

Society of Wetland Scientists South Central Chapter Meeting. North Little Rock, AR. Oct. 12, 2018. Presentation Title: The Clean Water Rule: A Review & Current Status, Keeping Up With Current Federal Policy.

Presented preliminary findings of a 55+ mile survey of Shoal Creek, Newton County, MO, at The Nature Conservancy's Western Ozark Waters Initiative forum. Wildcat Glades Conservation & Audubon Center, Joplin, MO, March 15, 2017.

Smith A., **Burns J.M.**, and Burba E. (coauthors). January 27, 2015. Draft Environmental Assessment of the Proposed Hulbert, OK, Water Treatment Plant Improvements. Prepared by SEARCH LLC, Siloam Springs, AR. 228 pages. (Technical Report)

Burns, Jodie Janeen Murray. December 2001. THESIS: Changes in Watershed Land Use, Geomorphology, and Macroinvertebrate Assemblages in Clear Creek, NW Arkansas, From 1948-1999. University of Arkansas. 97 pages.

Burns J.M., and Barnes J.M. 1995. Environmental Assessment. Proposed Retail Development, West Lafayette, Indiana. Details mammal survey, bird sightings, plant inventory, wetlands, and cultural resources. 26+ pages. (Technical Report)

Awards - Society of Wetland Scientists President's Service Award, 2019 Annual Meeting, Baltimore, MD, May 2019.