



BAT SURVEYS AND MONITORING

Background

The United States is home to 46 species of bats including the federally-endangered **Indiana bat (*Myotis sodalis*)**, **gray bat (*Myotis grisescens*)**, **Ozark big-eared bat (*Corynorhinus townsendii ingens*)**, and the federally-threatened **Northern long-eared bat (*Myotis septentrionalis*)**. These unique mammals utilize rural and urban environments and may be found at bridges, culverts, tree roosts, caves, and mine sites. Cox|McLain Environmental Consulting, Inc. (CMEC's) bat biologists can guide your project to stay on track from the planning stage through to construction on projects throughout Texas, Oklahoma, Missouri, Arkansas, Kansas, Nebraska, and beyond. Activities that could benefit from CMEC's bat survey services include, but are not limited to, projects involving:

- Removal of vegetation (especially forested habitat).
- Demolition or repair of man-made roosting structures; including bridges, buildings, and culverts.
- Impacts to caves or mines which may act as roosting and maternal colony sites.
- Siting and installation of wind turbines, or solar arrays.



CMEC Biologist checking a double-high mist net

What Cox|McLain Environmental Consulting, Inc. can do:

CMEC's biologists hold a United States Fish and Wildlife Service (USFWS) Scientific 10(a)(1)(a) Permit for the federally-endangered **Indiana bat, gray bat, Ozark big-eared bat**, and the federally-threatened **Northern long-eared bat**. Additionally, CMEC biologists hold the appropriate state permits including Texas Parks and Wildlife Service (TPWD) Scientific Research Permit and Oklahoma Department of Conservation (ODWC) Scientific Collector's Permit. Our experienced staff can provide expert advice and coordination with State and Federal Agencies to make compliance with regulations simple and easy. Because our biologists have compiled hundreds of hours surveying for and handling bats, we are confident that we can assist clients who have projects that may impact bats. Services CMEC may provide include:

- Mist-Netting and Harp-Trapping
- Pre/Post-Construction Wind Farm Surveys/Monitoring
- Acoustic Surveys
- Habitat Assessments
- Hibernacula/Roost Survey
- Pre-Construction and Construction Phase Surveys/Monitoring
- White-nose Syndrome Sampling/Monitoring
- Bridge/Structure Surveys



A federally-endangered gray bat

Comprehensive Environmental Services:

CMEC is a HUB/DBE/WBE-certified environmental consulting firm founded in 2007 and based in Austin, Texas with additional offices in Houston and Dallas Texas as well as Oklahoma City and Tulsa, Oklahoma. CMEC staff includes biologists, wetland ecologists, planners, GIS specialists, archeologists, archival researchers, and architectural historians. We provide environmental, archeological, historical, and planning services to an array of clients throughout the Southwest region.

For more information about CMEC services please visit our website:

www.coxmclain.com



CMEC biologists conducting a culvert roost survey

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