



SH-74 Bridge over I-35 Replacement/Interchange, McClain County, Oklahoma

Environmental Constraints

The project area has been considered for environmental resources or conditions that pose any type of constraint on the alternatives.

All design alternatives were subsequently reviewed to determine comparative environmental impacts, and the results are summarized in the comparison matrix presented later on this website.

Following is a summary of known environmental constraints in the project area:

Cultural Resources

None of the alternatives are anticipated to have impacts to cultural resources.

Hazardous Material

All alternatives may require right-of-way from an oil field service company and an existing gas station that have underground fuel storage tanks and groundwater monitoring wells, as well as from a

former gas station that had reported a leaking underground fuel storage tank. Alternatives 3A and 3B are anticipated to require more right-of-way from the existing gas station than the other alternatives and thus are more likely to impact groundwater monitoring wells and/or encounter soils impacted by petroleum releases.

Floodplain

All alternatives cross a Zone A floodplain associated with an unnamed tributary to the Canadian River.

Wetlands/Streams

None of the alternatives are anticipated to have impacts to wetlands. Based upon a review of topographic mapping, the estimated stream impacts of each alternative are:

- Alternative 1: 290 feet
- Alternative 2A: 241 feet
- Alternative 2B: 240 feet
- Alternative 3A: 0 feet
- Alternative 3B: 0 feet
- Alternative 4A: 57 feet
- Alternative 4B: 56 feet
- Alternative 5A: 27 feet
- Alternative 5B: 26 feet

Species

The United States Fish & Wildlife Service (USFWS) lists two endangered species, three threatened species, and one candidate species for McClain County. Preliminary review suggests that no suitable habitat for any endangered or threatened species was observed within the project area for any of the

alternatives. However, habitat for the candidate species (Monarch Butterfly) may be present. The project area lies within a federally listed aquatic dependent species watershed (*Canadian River watershed*).

Commercial Relocation

Alternatives 3A and 3B will most likely result in the relocation of a compressed natural gas (CNG) fueling station.

Airport

Alternatives 3A and 5A are anticipated to require approximately 2.53 acres of right-of-way from the David Jay Perry Airport. Alternatives 4A and 4B are anticipated to require approximately 4.35 and 2 acres, respectively of right-of-way from the David Jay Perry Airport. Airport property acquisition and release of airport property must be performed in accordance with Federal Aviation Administration protocols.