

## Work Task F8: Reptile and Amphibian Monitoring at Conservation Areas

FY16 Estimate	FY16 Actual Obligations	Cumulative Expenditures Through FY16	FY17 Approved Estimate	FY18 Proposed Estimate	FY19 Proposed Estimate	FY20 Proposed Estimate
\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$25,000

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**Start Date:** FY18

**Expected Duration:** FY55

**Long-Term Goal:** Post-development monitoring for northern Mexican gartersnakes (*Thamnophis eques megalops*), Colorado River toads (*Bufo alvarius* = *Incilius alvarius*), and lowland leopard frogs (*Rana yavapaiensis* = *Lithobates yavapaiensis*)

**Conservation Measures:** AMM1 (NMGS), CRT01, and LLFR1

**Location:** Presence surveys will be conducted at newly developed marsh habitat sites and adjacent cottonwood-willow (*Populus fremontii*-*Salix gooddingii*) habitat where northern Mexican gartersnakes may be present, including the Beal Lake Conservation Area on the Havasu National Wildlife Refuge, and Planet Ranch, Arizona.

**Purpose:** To monitor the use of created marsh habitat by covered reptile and amphibian species

**Connections with Other Work Tasks (Past and Future):** None.

**Project Description:** Presence surveys for northern Mexican gartersnakes and their prey (including Colorado River toads and lowland leopard frogs) will be conducted at newly developed marsh habitat sites and adjacent cottonwood-willow habitat where northern Mexican gartersnakes may be present.

**Previous Activities:** This is a new project start in FY18.

**FY16 Accomplishments:** This is a new project start in FY18.

**FY17 Activities:** This is a new project start in FY18.

**Proposed FY18 Activities:** Conduct pre-construction presence surveys for northern Mexican gartersnakes at Planet Ranch in areas with marsh habitat, adjacent cottonwood-willow habitat, and rocky areas where northern Mexican gartersnakes may be present. Conduct pre-construction surveys and monitoring, as needed, for maintenance activities at the Beal Lake Conservation Area.

**Pertinent Reports:** The results of the surveys will be reported in the annual reports for each associated restoration site as well as one report for all conservation areas, and they will be posted on the LCR MSCP Web site upon completion.