



COCHISE COUNTY

COMMUNITY DEVELOPMENT

"Public Programs...Personal Service"

MEMORANDUM

Date: September 14, 2018

To: Flood Control District Board of Directors (FCD Board)

From: Joaquin Solis, P.E., Highway & Floodplain Manager

Subject: Ephemeral Streamflow and Groundwater Monitoring Year 2, Additional Services #1 and #2

Recommendation: Approve Ephemeral Streamflow and Groundwater Monitoring Year 2, Additional Services #1 (additional monitoring services and reporting) and #2 (Horseshoe Draw equipment installation and monitoring) Scopes of Work with JE Fuller Hydrology & Geomorphology, Inc., in the amount of \$80,618.00 for additional ephemeral stream flow and groundwater monitoring at Horseshoe, Palominas, Riverstone Ranch, and Bella Vista Ranch through.

Background: A monitoring network using remote stilling well stations was proposed and put in place for several stream channels within the Sierra Vista Subwatershed of the Upper San Pedro River. The network will monitor stream flow for a period of time prior to the design and construction of additional groundwater recharge facilities intended to capture stormwater runoff. This allows for better estimation of stream flow characteristics in response to precipitation and improves predictions of potential available groundwater recharge volumes. On June 27th, 2017 the FCD Board approved grant agreement number AZFO-170530 between The Nature Conservancy (TNC) and the Cochise County Flood Control District for additional recharge monitoring for the Ephemeral Stream Flow Monitoring and Palominas Recharge Projects in the amount of \$92,000 for the period of June 27, 2017 through June 15, 2019 plus matching funds from the FCD. The Walton Family Foundation (WFF) has also agreed to contribute for the Horseshoe Draw equipment and installation from grant 2011-1195.

Fiscal Impacts: Additional Services #1 (additional monitoring and reporting services to December 2018) estimate is \$29,607 and Additional Services #2 (surface and groundwater equipment and monitoring at the Horseshoe Draw site estimate is \$51,011. The total estimate is \$80,618. \$34,249 for the Horseshoe monitoring equipment and installation will be covered by WFF and the remaining \$46,369 will be contributed by the TNC grant with matching contributions coming from Cochise County.

Funding Source:	FCD/TNC	\$46,369.00
	Walton Family	\$34,249.00

Next Steps/Action Items/Follow Up: Staff will coordinate with JE Fuller to start implementation of the Ephemeral Streamflow Monitoring Project.

Impact of Not Approving: If not approved, the FCD will not continue the Ephemeral Streamflow Monitoring Additional Services and grant monies will have to be returned.