



Cochise County Community Development

Highway and Floodplain Division

Public Programs...Personal Service
www.cochise.az.gov

MEMORANDUM

Date: November 21, 2016

To: Flood Control District Board of Directors

From: Joaquin Solis, P.E, Assistant Director

Subject: Automated Local Evaluation in Real Time (ALERT) - System for predicting emergency situations by collecting real-time data on rainfall.

Recommendation: Approve JE Fuller’s Professional Service Agreement to implement year 3 of the 5 year ALERT System implementation plan.

Background: Cochise County is in the third year of a 5-year plan to expand the ALERT system to collect and compile rainfall data for the purpose of early flood warning throughout the county. This proposed Scope of Work details year three (3) of the implementation plan and will include installation of four (4) additional remote sensor stations and maintenance of 13 other stations. The system consists of a network of remote sensors (rain gauges), and a data concentrator and transmitter at Mule Mountain. The sensors transmit real-time rainfall data via radio frequency to the Mule Mountain tower facility where it is rebroadcast to the existing ALERT system, comprised of gauges plus data sources (rain gauges and stream gauges) from the USGS, ADWR, and Pima County. The planned activities for previous years have been completed and funding for 2016/2017 is requested.

Fiscal Impact and Funding Sources:

2016/2017 – 4 Gauges plus System Maintenance	\$ 21,236 (Firm Quote)
2016/2017 - <u>Maintenance of 13 existing County gauges</u>	<u>\$ 57,755 (Firm Quote)</u>
Total	\$ 78, 991

Funding source: 261-4010-9-421.600

Next Steps/Actions Items/Follow-up: Contract with JE Fuller for purchase, installation and maintenance of 2016/2017 items.

Impact of Not Approving: Less information regarding emergency flood situations that may develop due to wildfires and other flooding countywide.

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