

FEMA HMGP DESCRIPTION

- **Competitive Grant made available after the Disaster Declaration 4272 (Tax Day Floods)**
- **\$724,000 have been allocated for projects such as Flood Early Warning Systems (FEWS)**
- **The federal to local match is 75/25**
- **Application Deadline is 07/31/2017**
- **If selected federal funding will be available July 2018**



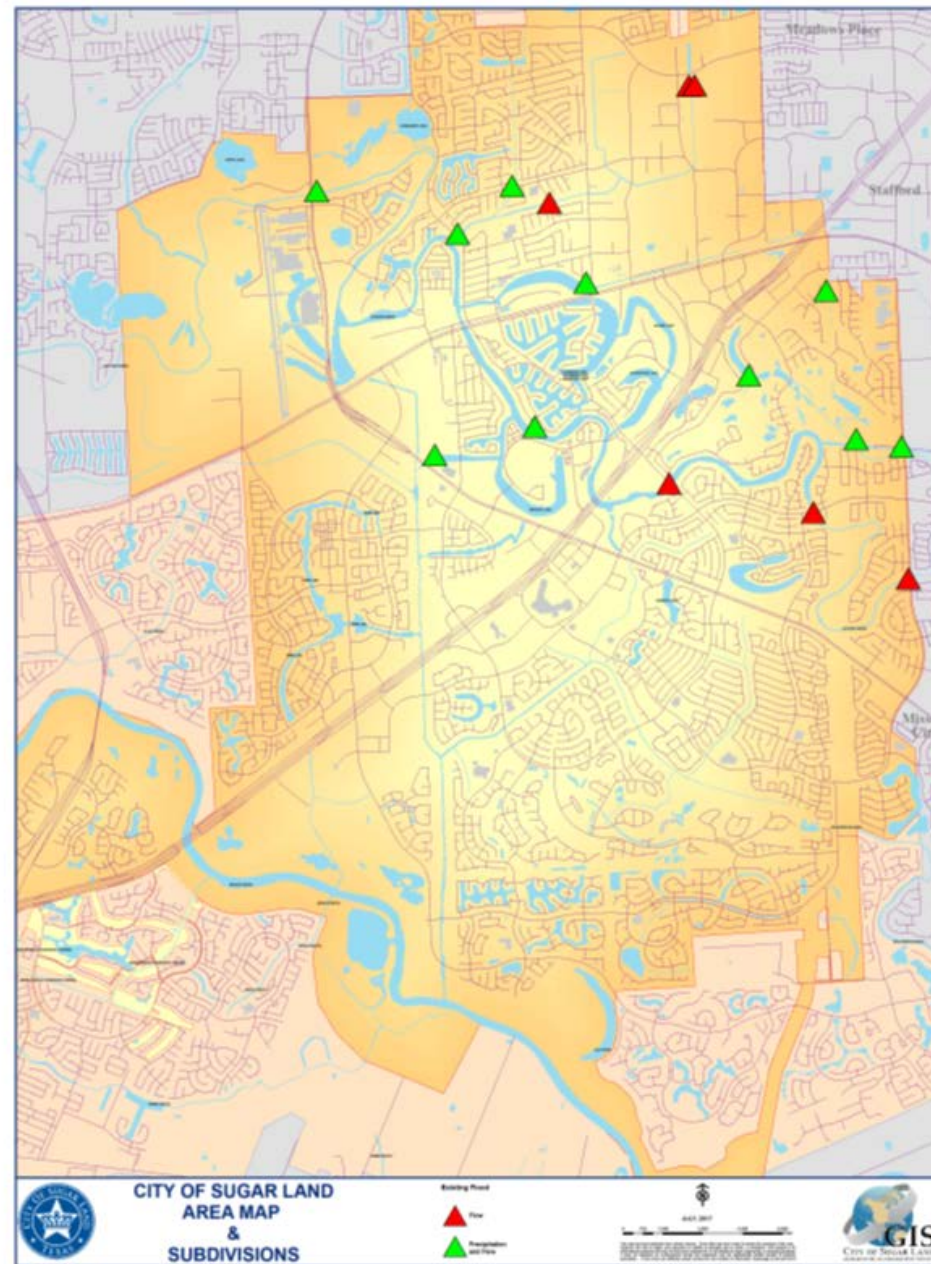
PROJECT BACKGROUND

- **COSL's Flood Early Warning System installed between 2004 and 2006**
- **The System has 16 gauge stations located in channels, bayous and detention basins measuring rainfalls & stream stages**
- **The Flood Alert System (Alert 1) integrates radar, rain gauges, bayou stage data and hydrologic modeling to provide early warning on flooding**

EXISTING STATIONS

Flow Only: ▲

Rain & Flow: ▲




PROJECT BACKGROUND (CONT.)

- **Alert 1 hardware and software technology is outdated**
- **System loses up to 30 to 45 % of the data during storms.**
- **It's necessary to update the existing system to Alert 2 and to install new gauges to increase coverage especially in the ETJ areas to be annexed in end of 2017**



PROJECT SCOPE

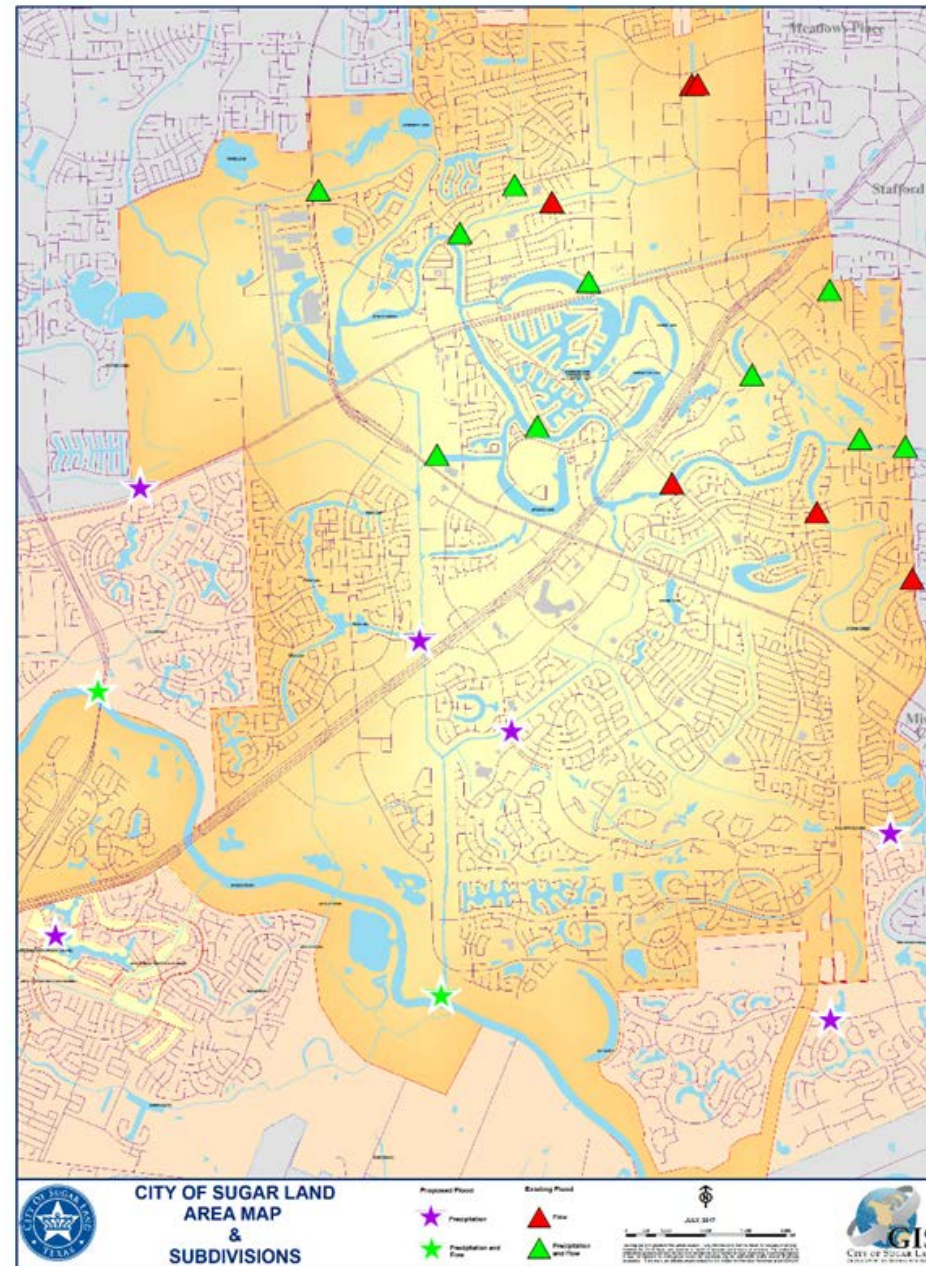
- **The Grant will support the City's Flood Early Warning System Improvement Project**
 - **Upgrading the existing FEW System to the latest technology (Alert 2)**
 - **Improving precipitation and stream gauge coverage of the City and the annexation areas**
 - **Project will include up to 10 new gauge locations**
 - **Locations will be defined following a comprehensive review of the existing FEW System in relation to known flooding issues**
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PROPOSED STATIONS

Flow Only:



Rain & Flow:





PROJECT BENEFITS


- **Improved coverage and an upgraded FEWS will allow the City to:**
 - **Decrease response time for emergency responders**
 - **Increase strategic efficiency of emergency operations**
 - **Reduce loss of property and**
 - **Increase safety for Sugar Land residents and business owners**

PROJECT COST

- **The estimated total project budget is \$200,000:**
 - **Federal Funding: \$150,000**
 - **COSL match: \$ 50,000**



TIME LINE

- **COSL Council Resolution:** **07/18/17**
 - **Application Submittal:** **07/31/17**
 - **Selection Announcement:** **07/31/18**
 - **Project Initiation:** **12/01/18**
 - **Matching Funds Required:** **01/01/19**
 - **Project Completion:** **08/30/19**
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ACTION ITEM

- **COSL City Council to approve resolution supporting the FEMA HMGP Application**



QUESTIONS