Alamo Wash Basin Management Study Update

Open House #2
October 23, 2017
Welcome

• Agenda
  ❖ Welcome
  ❖ Study Area and Project Purpose
  ❖ Partnerships
  ❖ City and County Interaction
  ❖ Project Status Update
  ❖ Flood Depth Mapping
  ❖ Community Input
  ❖ Timeline
  ❖ Adjourn to Comment on Maps
Study Area

- 9.6 Square Miles
- Alamo Wash
- Arcadia Wash
- Sahuara Wash
- Van Buren Wash
Project Purpose

- Identify Flood Hazard Areas
- Identify Flood Hazard Problems
- Identify Cost Effective Solutions
- Improve Public Safety
- Create Development Guidance
- Provide a Balanced Approach to Manage the Watershed
• Project Team

- Pima County Regional Flood Control District
- City of Tucson
- CMG Drainage Engineering Inc.
- JE Fuller Hydrology & Geomorphology Inc.
- Ashby Surveying
- Wheat Design Group
- Kaneen Communications
Fred Felix, P.E.

- City/County collaboration
- Develop rating system for mitigation alternatives
- Maintenance Requests
  - (520) 791-3154
  - Maintenance Website
- Tucson Clean and Beautiful (520) 791-3109
  - Adopt a Wash
  - Alamo Wash (Pima St. to Speedway Blvd.)
    - Contact: Bill Halvorson from Sustainable Solutions for Arid Lands, sustainablesolutions@mindspring.com
CMG - Project Status Update

• Existing Conditions Data Collection and Review – Complete & Report on RFCD Web Site
• Flood Mapping – Nearly Complete
• FEMA Letter of Map Revision (LOMR) if justified – Still to be determined
• Alternatives Analysis and Remediation Recommendations – To Start In November/December 2017
• Public and Stakeholder Involvement – Ongoing Throughout Project, Third & Final Open House Spring 2018
Flood Modeling

- 2 dimensional modeling (FLO-2D)
- New Technology (not available 20 years ago)
- More detail – breaks down watershed to over 1 million pieces
- Uses current topographic data (2015)
- Better for alternatives evaluation
- Able to reflect bridges, culverts, storm drains, etc.
  - 46 bridges & culverts
  - 26 miles of storm drain
  - 1,000 storm drain inlets, manholes & junctions
Flood Model Results

- Major wash & localized flows are determined
- Helps illustrate flood problem areas
- Exhibit at right shows color-coded model results (also see larger easel exhibits)
Alamo Wash Basin Management Study

Project timeline

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Nov-16 to Nov-18
Next Steps

• Formulate drainage improvement alternatives
• Draft development guidance
• Determine if and where to revise flood insurance rate maps
• Open House #3 – Spring 2018
Problem Areas Map
Sheet Locations
City Contact Numbers

• Maintenance (520)791-3154
• Floodplain Management (520) 791-5600
• Planning and Development Services – flood status (520) 791-5550
Alamo Wash Basin Management Study

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Thank You!