



**Magnolia Creek & Cedar
Gully Channel
Improvements
Public Meeting**

Thursday, June 13, 2019

PURPOSE OF MEETING

- Why are we here?
 - City Staff received input related to this project during the GO Election process.
 - A commitment was made to obtain Public Input prior to further development of the project.
- What do we hope to achieve?
 - Public perspective related to the project
 - Public awareness of the issues related to drainage within Magnolia Creek and Cedar Gully
 - Meeting is not meant to discuss proposed solutions at this time because further analysis is needed.



Background

- Project first identified in 2014 Drainage Study
- Project is classified as an Erosion Control Project
- Project will help to maintain flow capacity within channels
- Scope was two-fold:
 - Implement measures to address the root cause of the erosion
 - Implement measures to stabilize the eroded channel sections



What is the Root Cause?

Overbank Erosion



Stream Bed Erosion



What is the Root Cause?

Bank Scouring and Bank Slump Erosion



What is the Root Cause?

Channel Widening Erosion



What is the Root Cause?

**Mag. Creek/Summer Pl
Outfall #1 in 2014**



**Mag. Creek/Summer Pl
Outfall #1 in 2019**



What is the Root Cause?

**Mag. Creek/Summer Pl
Outfall #2 in 2014**



**Mag. Creek/Summer Pl
Outfall #2 in 2019**



What is the Root Cause?

West Bank Outfalls along Mag Creek



How do we correct the damage?

- Understand our Drainage System
- Determine what parameter we are measuring against
- Develop some options
- Involve the Community
- Acquire needed Permits
- Develop a Hydrologic Model
- Rainfall intensities (TP 40 vs Atlas 14)
- Preliminary Plans to Final Project
- 3 to 4 Public Meetings for Project
- TCEQ and USACE expected



What Are Our Next Steps?

- Execute a Professional Services Agreement with Kimley-Horn
- Hydrologic Modeling of Magnolia Creek and Cedar Gully
- Hold 1st Public Meeting



What is the Project Timeframe?

Rough Schedule of Project

- Modeling – 6 to 9 months
 - **Permitting – up to 24 months**
 - Design – 9 to 12 months
 - Construction – 12 to 15 months
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- Assuming start in July project completed in late 2022/early 2023



CONTACT INFO

- After tonight, input can be submitted to the City's Project Manager, Jay Doyle
- Jay Doyle, M.Div., CPM
Senior Project Manager
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**Thank you for attending the
Magnolia Creek & Cedar Gully
Improvements Public Meeting**

Do you have any questions?