

# Onsite Sewage Facility (OSSF) Mapping Project

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# Introduction: Critical Need

Source of Nonpoint Bacteria Pollution





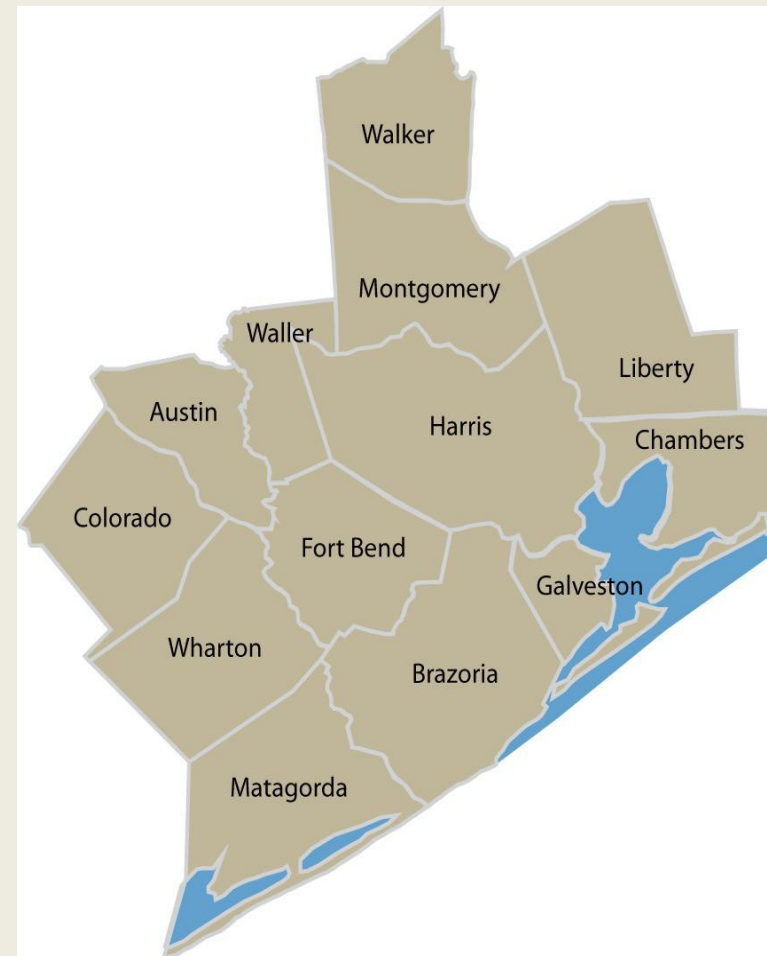
# Critical Need

*“In order for a Designated Representative to fulfill the responsibilities of the job, it is important to have a complete understanding of the number and location of the OSSF systems within his/her jurisdiction.”*

Study to Determine the Magnitude of, and Reasons for, Chronically Malfunctioning OSSFs in Texas, TOWTRC, p. 71.

# Critical Need

- Estimated 2 Million OSSFs in Texas
- H-GAC Region Estimation: 250,000+
- Region contains over 12.5% of all OSSFs
- Systems installed prior to 1989 Considered Grandfathered



# Critical Need

Reasons for Mapping as Identified by the Bacteria Implementation Group (BIG) OSSF Workgroup Meetings:



- Identifying and Maintaining Location Information
- Determining Sources of Bacteria for Impaired Waterways

# Critical Need

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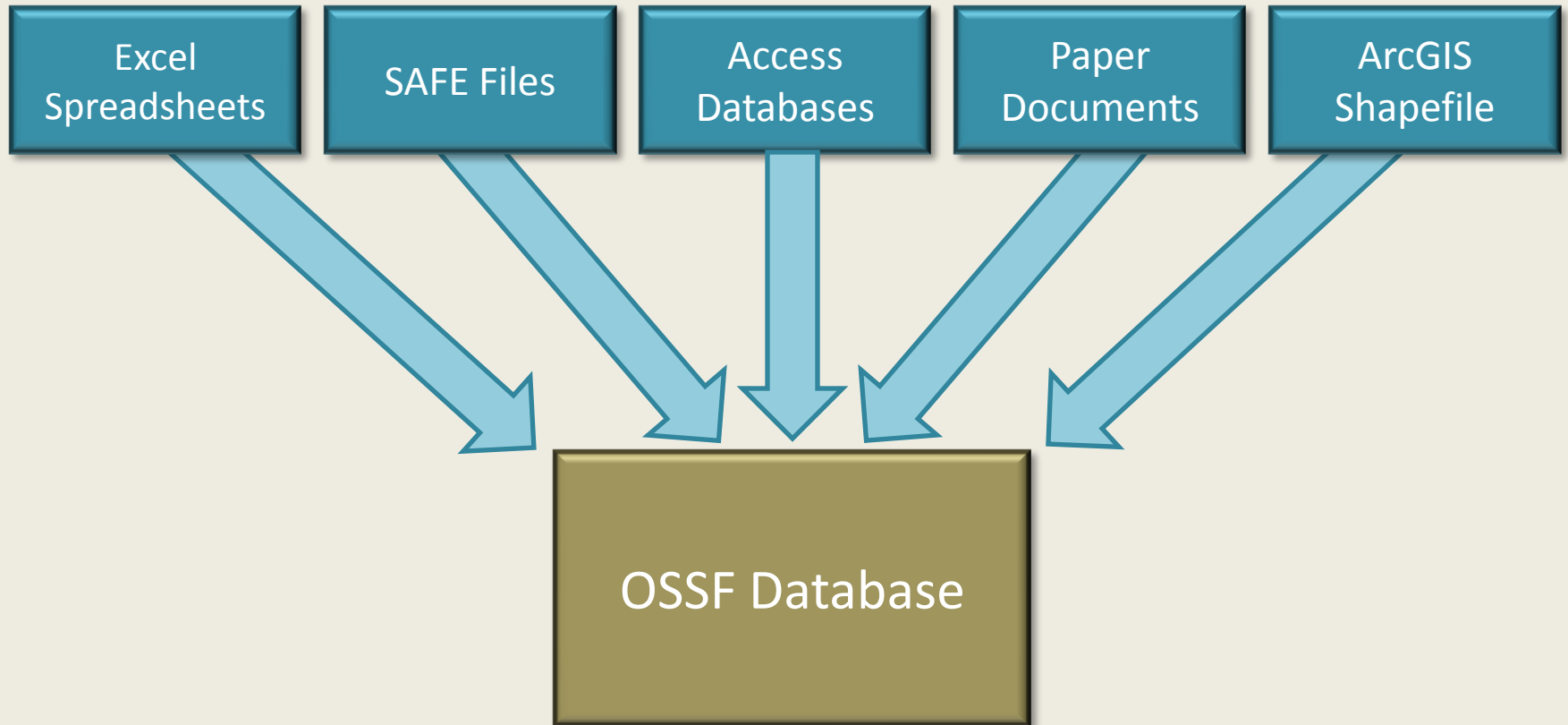
- Inspection and Maintenance Scheduling and Tracking
- Determining the Number of Systems Added Each Year
- Identifying Growth Clusters

# Phase I: Collecting Data

- Contacted authorized agents through telephone calls and e-mail
- Most challenging part of project



# Phase II: Editing Data



107,986 Records Received

# Phase II: Editing Data

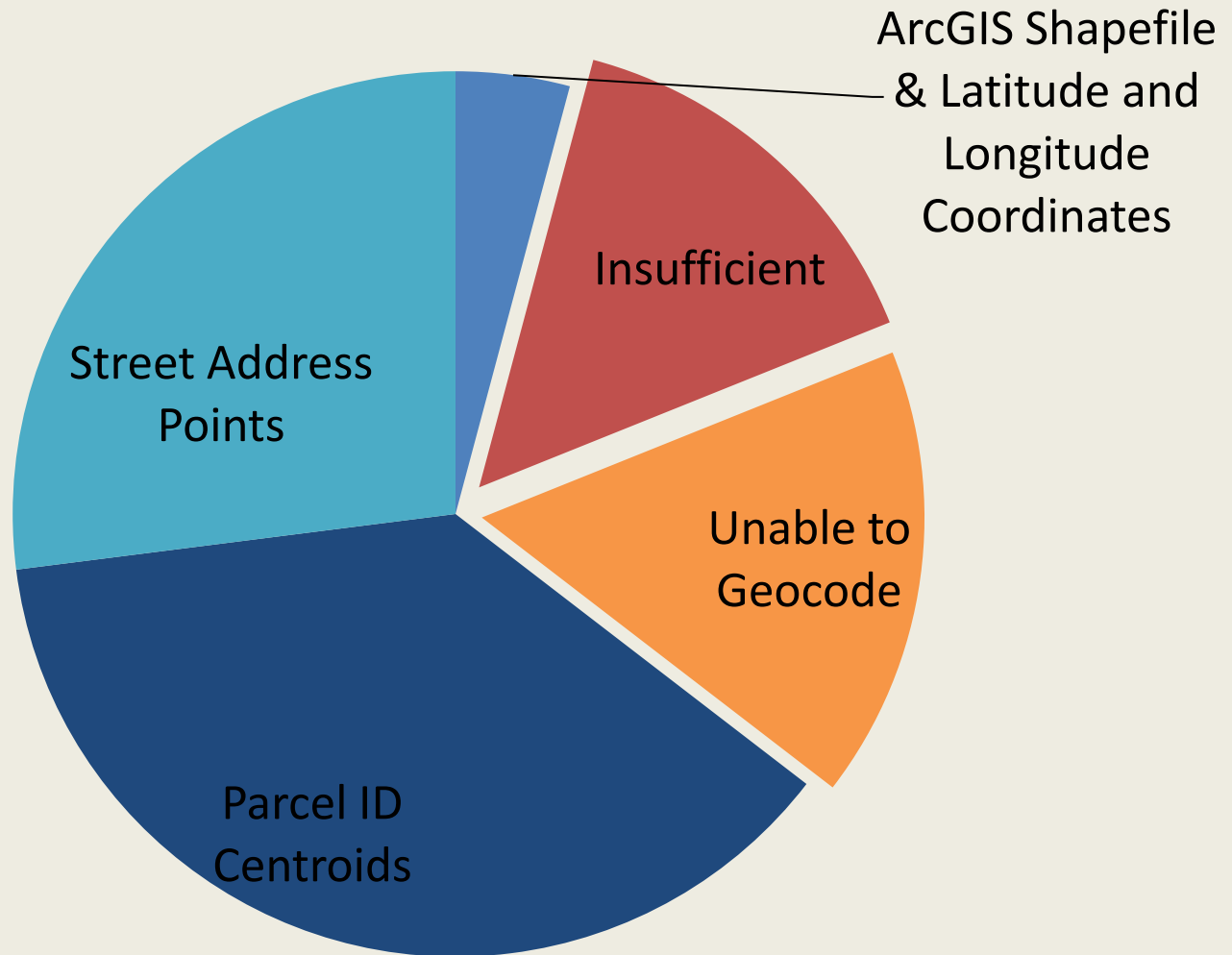
- Some records were insufficient
- “Three Houses down from Rosie”

Three Houses Down

Rosie

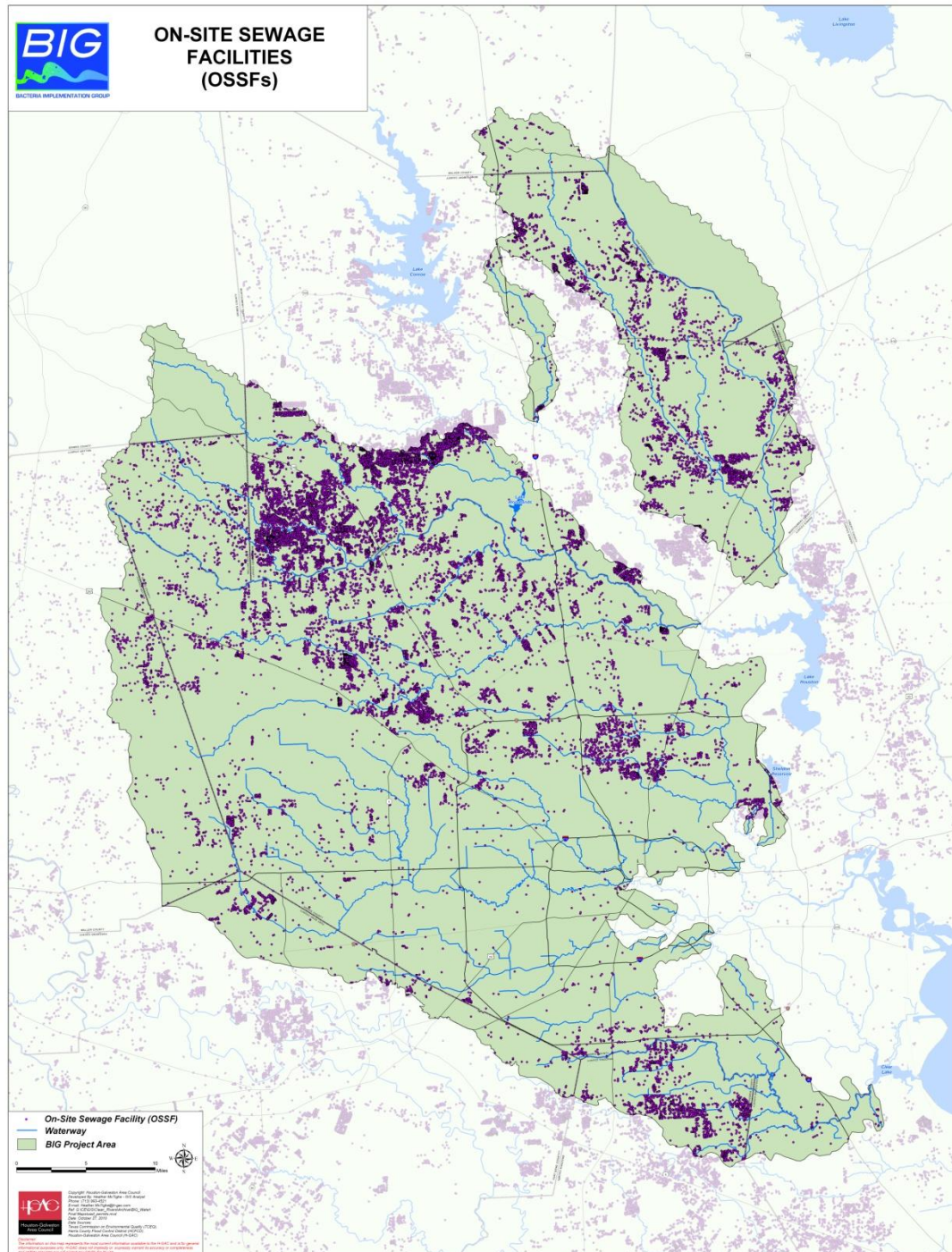


# Phase III: Building the Geodatabase

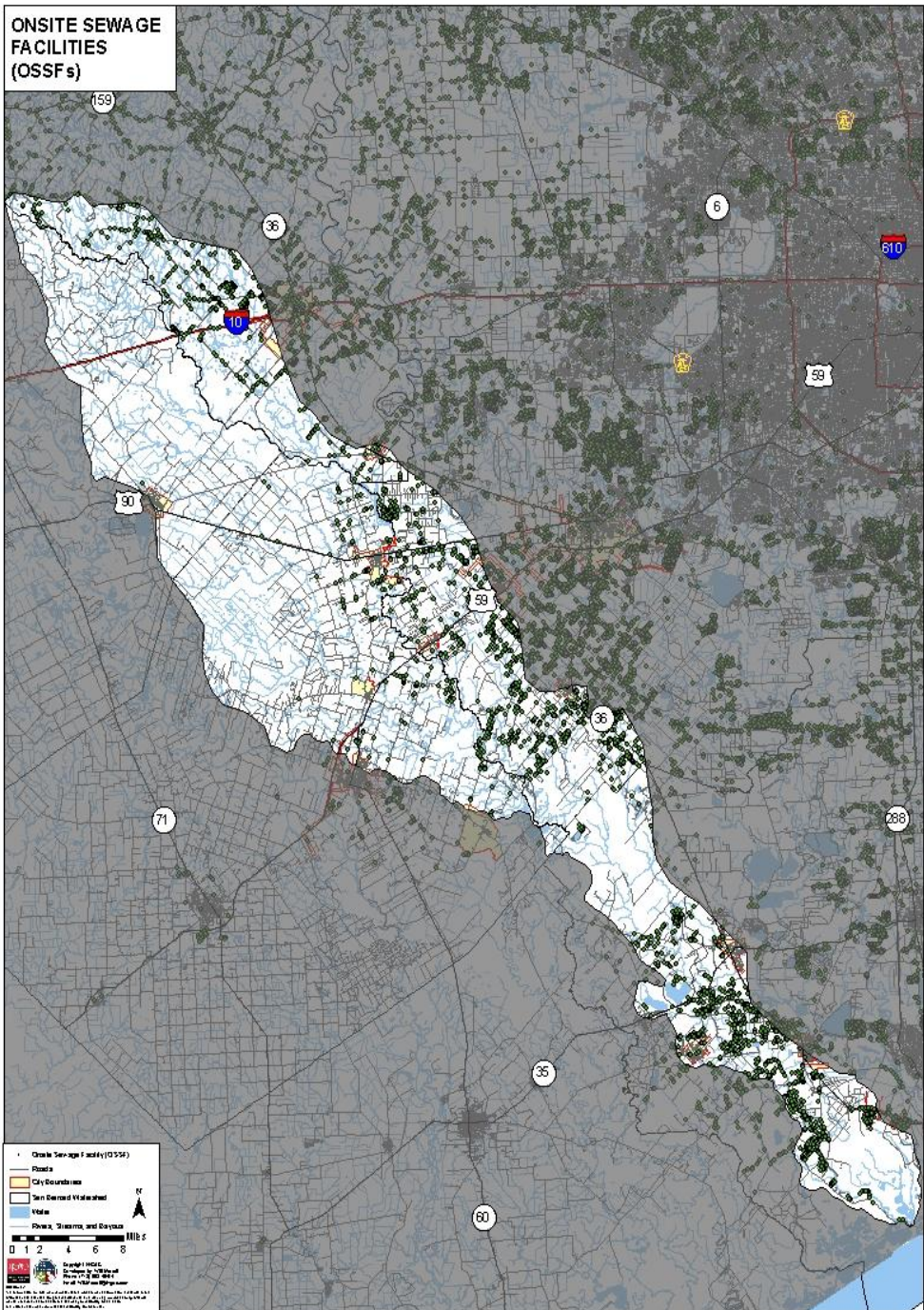




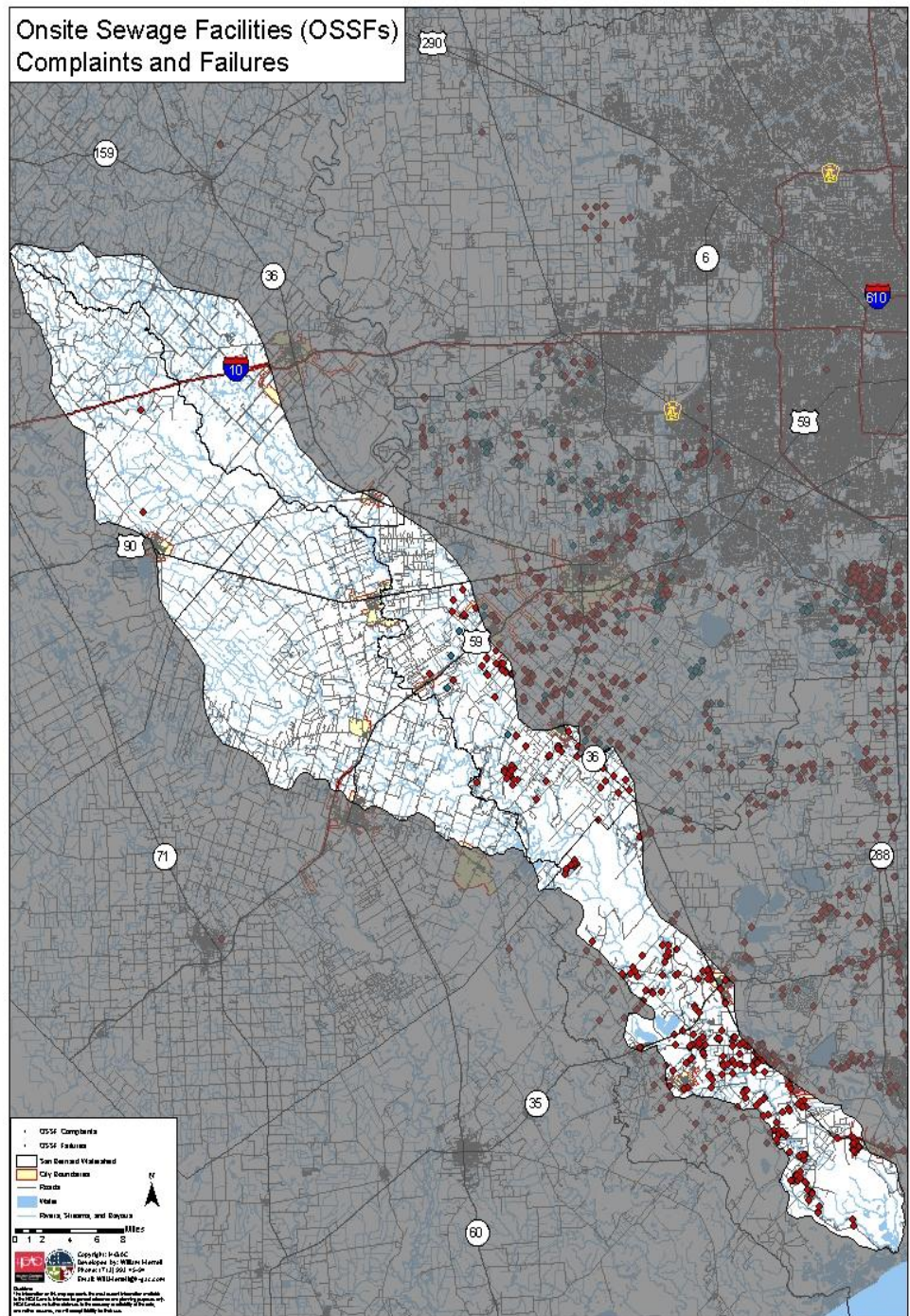
# Applications: BIG Project Area



# Applications: San Bernard Watershed



# Applications: San Bernard Watershed





# Future Endeavors



- Expanding Permit Geodatabase
- Instruction Manual for Submitting Data
- Collecting Complaint and Failure OSSF Data
- Identify Unpermitted OSSF

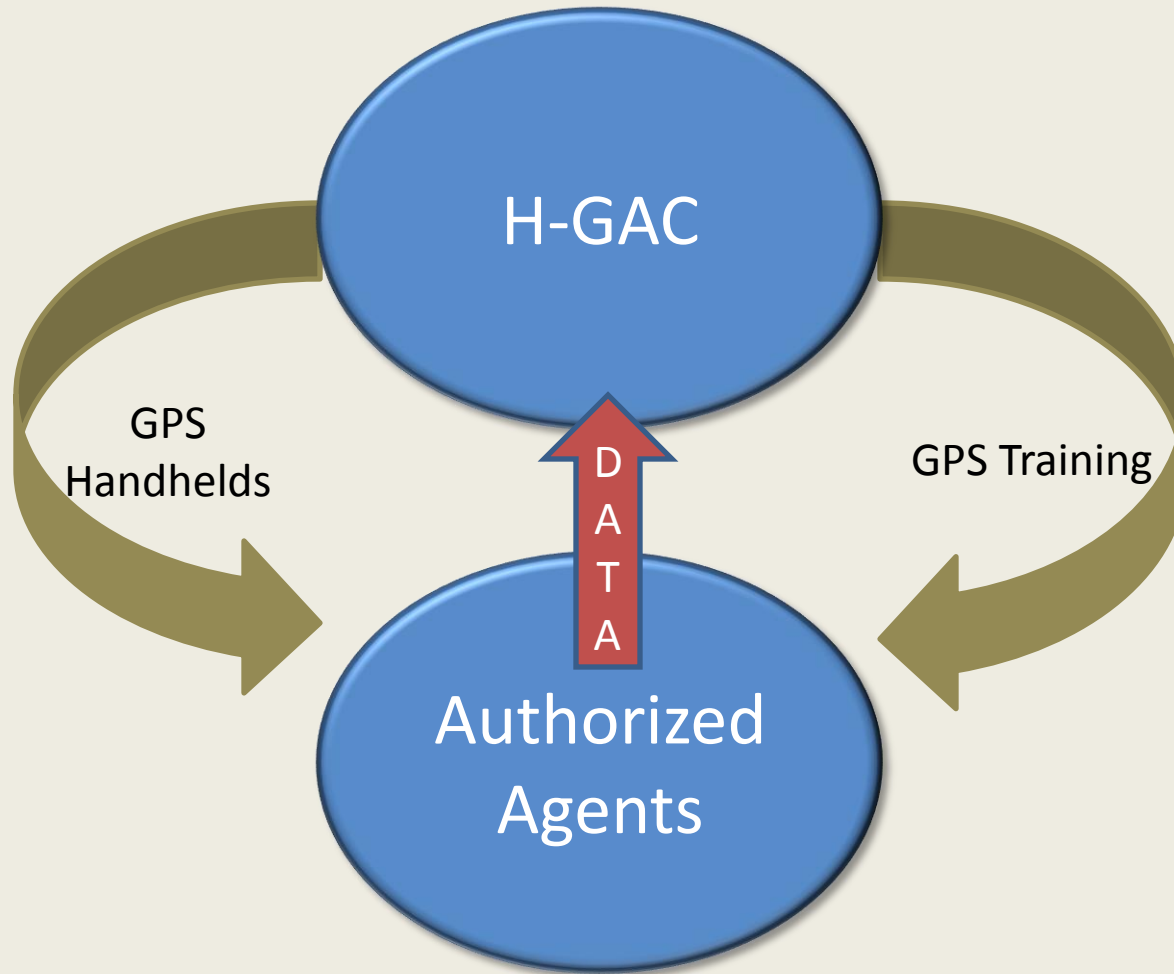
# Future Endeavors



- Limitations of street address geocoding
- Precision with GPS handhelds
- Eliminating “lost” records



# Future Endeavors



# Questions?

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