



SEMSWA Drainage Inventory Phase 1

SEMSWA Board Presentation
October 24, 2007
Kyle Hamilton, P.E., CH2M HILL



Project Overview

- Project Team
 - SEMSWA Project Manager: Mike Vinson
 - SEMSWA Lead Staff: Jerry Rearick
 - CH2M HILL Project Manager : Kyle Hamilton
 - CH2M HILL Lead Staff: Chad Davis (Engineering Lead), Luke Heyerdahl (GIS Lead)
- Project Budget: \$255,838 (previously approved by SEMSWA Board)
- Project Schedule: 6 months



Project Goals

- Develop an electronic GIS base map of stormwater infrastructure, for use by SEMSWA staff
- Estimate the value of the stormwater infrastructure, in order to support Dave Agee's bonding capacity analysis
- Use the Best Available Data, and defer field data collection to Phase 2



Primary Tasks

- Data Collection (County, districts, as-builts, etc.)
- GIS Base Map and Database Development
- Asset Inventory and Valuation



GIS Database Overview

- GIS features (lines, points, polygons, etc.) representing stormwater infrastructure
- Infrastructure includes: pipes, manholes, ponds, etc.
- Each feature will have database "attributes", which will include material type, dimensions, and other data available from the source documents
- Features will be classified based on data source, which indicates the associated level of accuracy
- Database will allow queries and reporting of features
- Database will be used to calculate feature quantities, to be used in the asset valuation task
- GIS features and database will be provided to SEMSWA



Project Deliverables

- Final Report
- GIS Database
- Estimate of Stormwater Asset Value



Future Phases

- Field data collection
- Incorporate data that was submitted after the data collection cutoff date
- Develop standards for submittal of CAD and GIS data to SEMSWA, for seamless importing
- Add customized GIS routines to make common tasks more streamlined and efficient
- Other needs as identified in Phase 1



Questions?