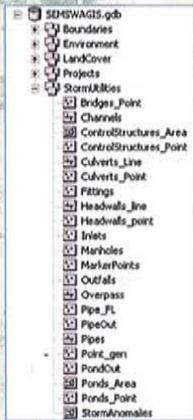


# Stormwater Inventory & Geodatabase

- Geodatabase
  - Layers
  - Tables



ID	TYPE	CONDITION	COMMENTS	SOURCE	ASSEMBLY	REPORT EXP/IN	INLET LENGTH	COMBO TYPE	TYPE DESCRIP
1	FVPE R			Surveyed with Handheld GPS			12.5	0	
2	FVPE R			Surveyed with Handheld GPS			7	0	
3	FVPE R		unknown inv	Surveyed with Handheld GPS			0	0	
4	FVPE 13			Surveyed with Handheld GPS			2.5	0	
5	FVPE R			Surveyed with Handheld GPS			4.5	0	
6	FVPE R			Surveyed with Handheld GPS			2	0	
7	FVPE R			Surveyed with Handheld GPS			4.5	0	
8	FVPE R		couldnt get rth open	Surveyed with Handheld GPS			0	0	
9	FVPE R			Surveyed with Handheld GPS			3	0	
10	FVPE R		Marked by ice	Surveyed with Handheld GPS			0	0	
11	OTHER			Surveyed with Handheld GPS			0	0	Grated
12	FVPE 13		Grates top rth not side grate	Surveyed with Handheld GPS			11	0	
13	OTHER		Grates with unknown config	Surveyed with Handheld GPS			5	0	Grated
14	OTHER		Grates with unknown config	Surveyed with Handheld GPS			5	0	Grated
15	OTHER		Grates with unknown config	Surveyed with Handheld GPS			4.5	0	Grated
16	FVPE R		Drain 18x18x18 curvet	Surveyed with Handheld GPS			0	0	
17	FVPE R		Drain 18x18x18 curvet	Surveyed with Handheld GPS			0	0	
18	FVPE R			Surveyed with Handheld GPS			0	0	
19	FVPE 13			Surveyed with Handheld GPS			3.5	0	Single
20	FVPE R			Surveyed with Handheld GPS			0	0	
21	FVPE R		unknown inv	Surveyed with Handheld GPS			4.5	0	
22	FVPE R			Surveyed with Handheld GPS			6.3	0	

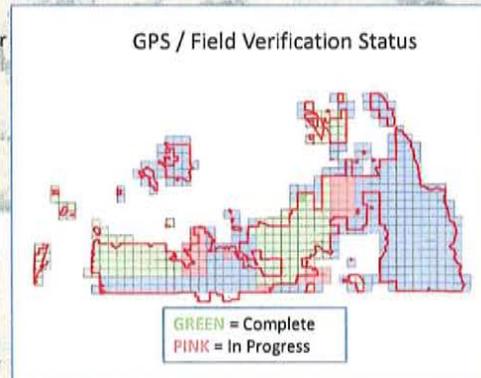
# GPS/GIS Process

- General Description
  - Field crews: two teams of maintenance personnel & periodic internships
  - Approach
    - Outfall (drainageway)
    - Grid
  - Trace the entire system
- Process:
  1. Pre-Collection Planning
  2. GPS Field Verification
  3. Post Processing
  4. GIS Integration (supplement with aerial photography and LIDAR)



## Status & Future Directions

- Status (current efforts)
  - Complete initial field verification of all stormwater features (~50%)
  - Database Design (done)
  - Deployment (~50%)
  - Cartograph Integration (~10%)
- Future
  - "Network" creation / modeling
  - Elevation component
  - Full Documentation
  - Share with neighbors (edge-matching)



## Benefits of Accuracy

- Spatial Accuracy
  - Submeter
  - Verified features are where we think they are.
- Attribute Accuracy
  - Through field verification & GPS/GIS, we know the condition, capacity, and cost of our stormwater system.
- Reliability! Remove the guesswork.
  - Asset Reporting
  - Forecasting & Planning