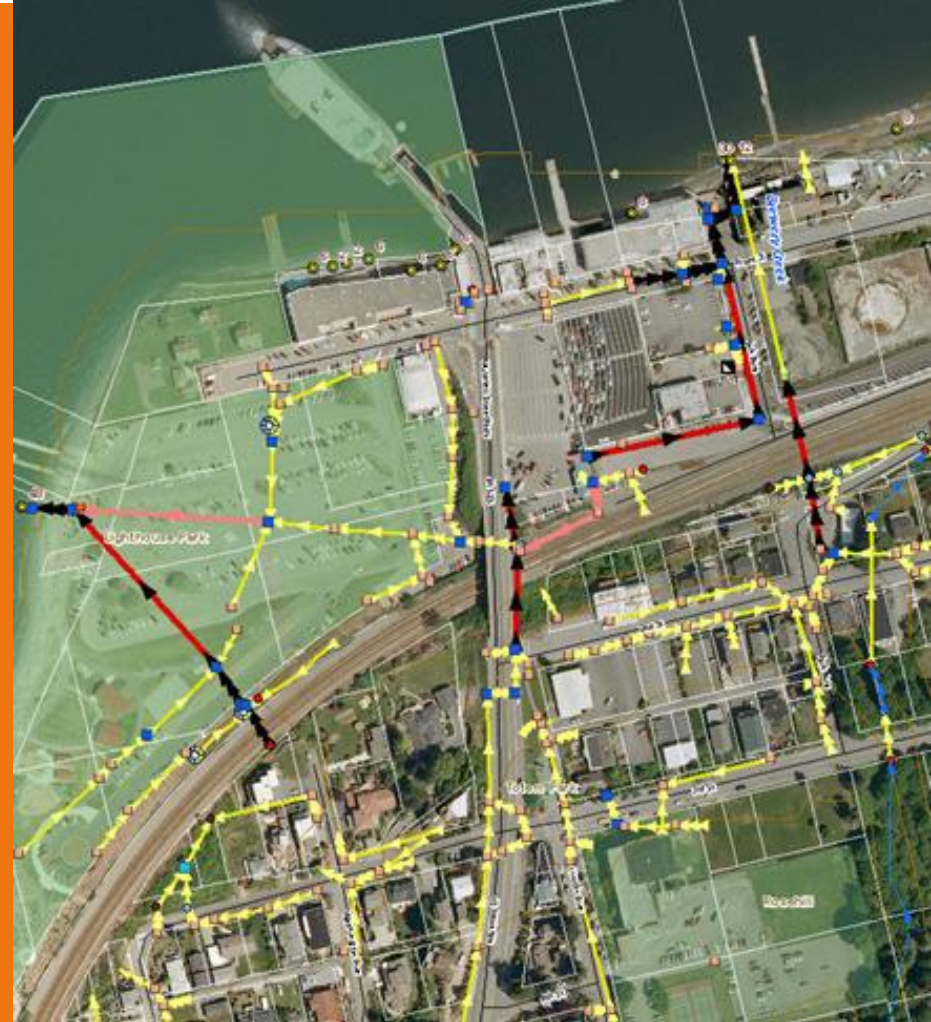


# Stormwater GIS Tools City of Mukilteo

April 26, 2011

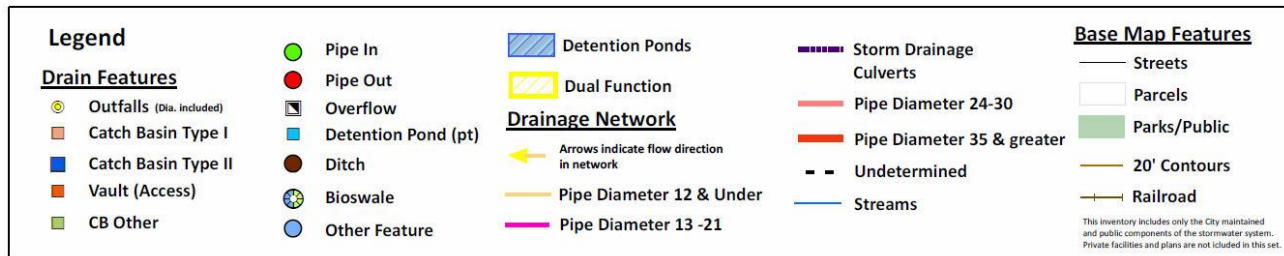


# Project Purpose

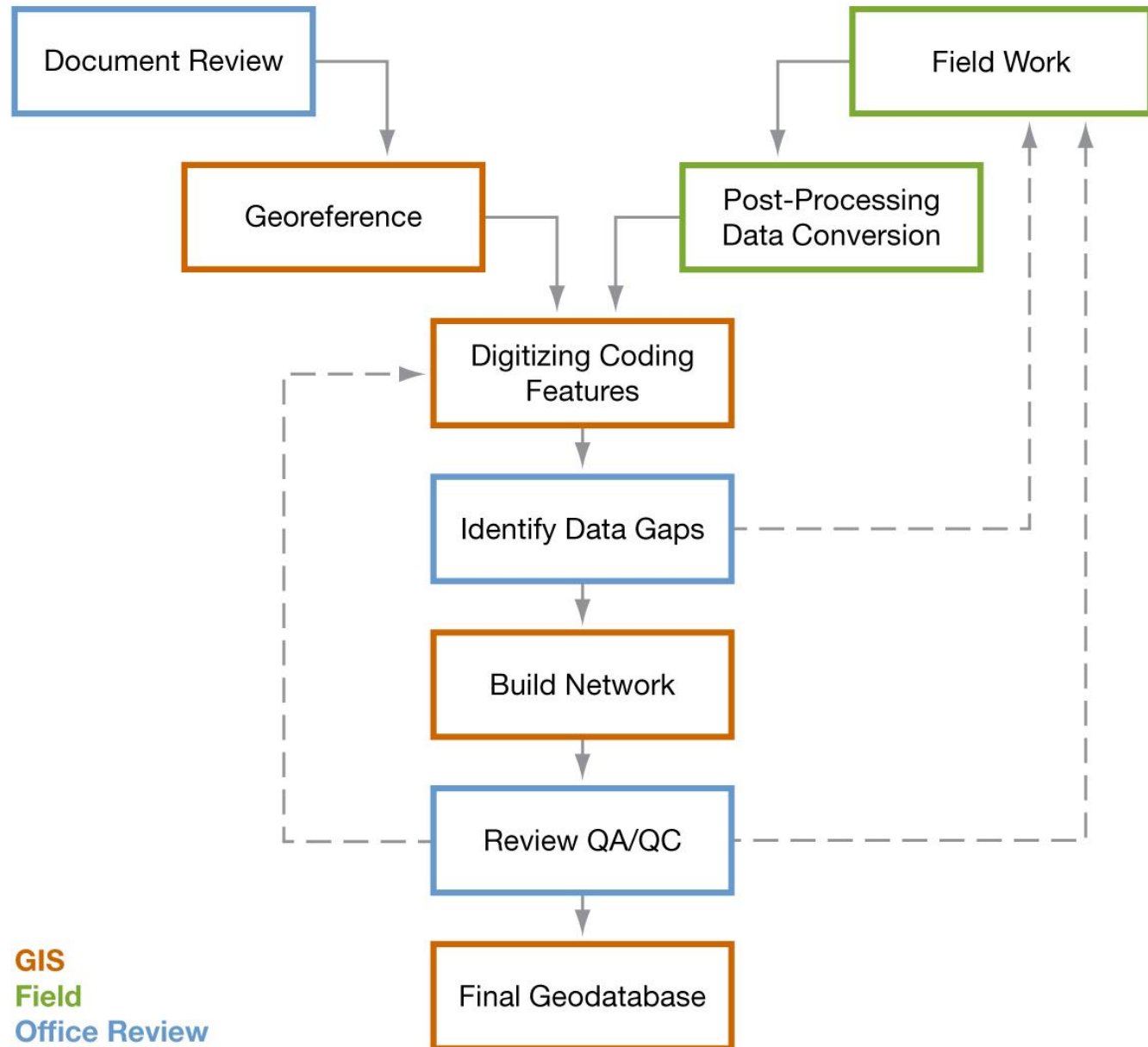
- To create a Comprehensive Inventory of Stormwater Infrastructure
- To comply with NPDES Phase II Municipal Permit Requirements
- To create a spatial database tool for:
  - Stormwater Management and Response
  - Basin-scale planning
  - Asset Inventory and Maintenance
  - Water Quality Monitoring
  - Hydrologic and Hydraulic Modeling

# Project Highlights

- 190 Miles of Stormwater network
- 8054 Catch Basins
- 284 Outfalls
- 251 Detention Ponds



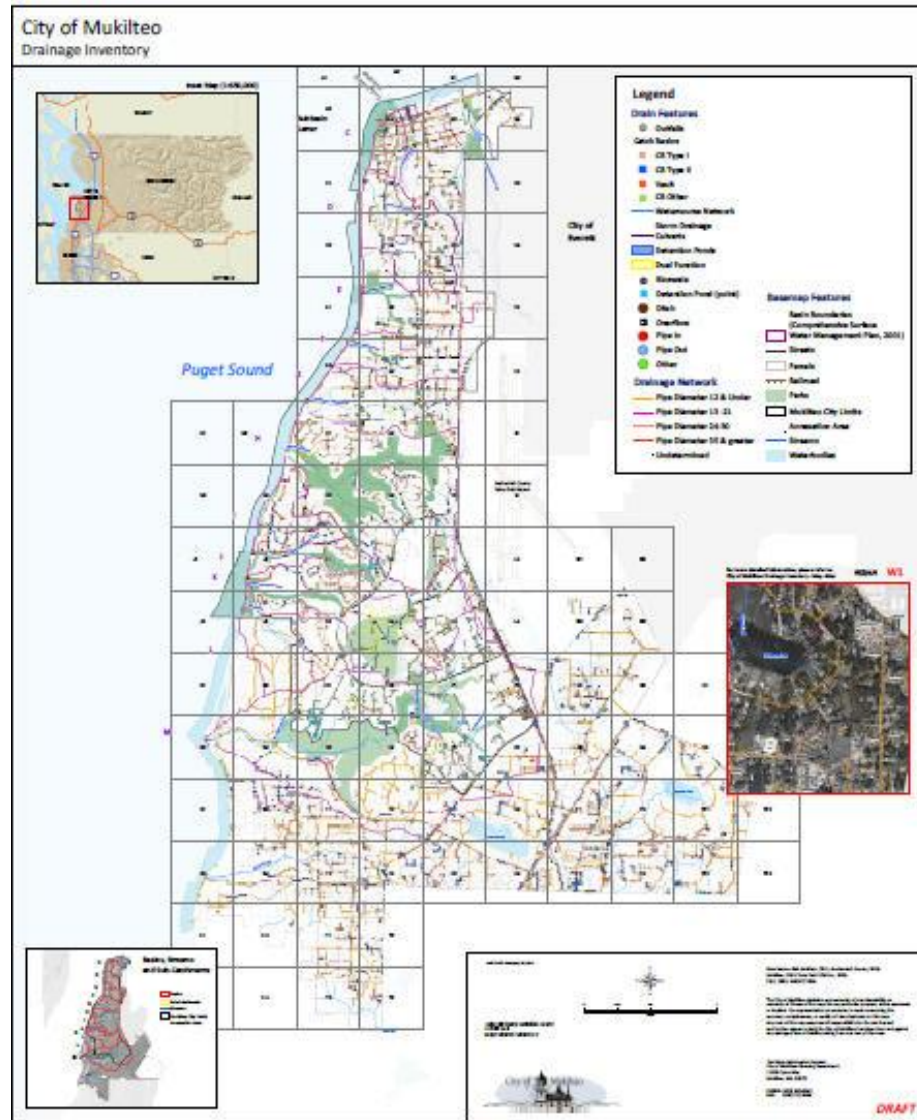
# Project Workflow



# DEMO – Mapping Examples in GIS

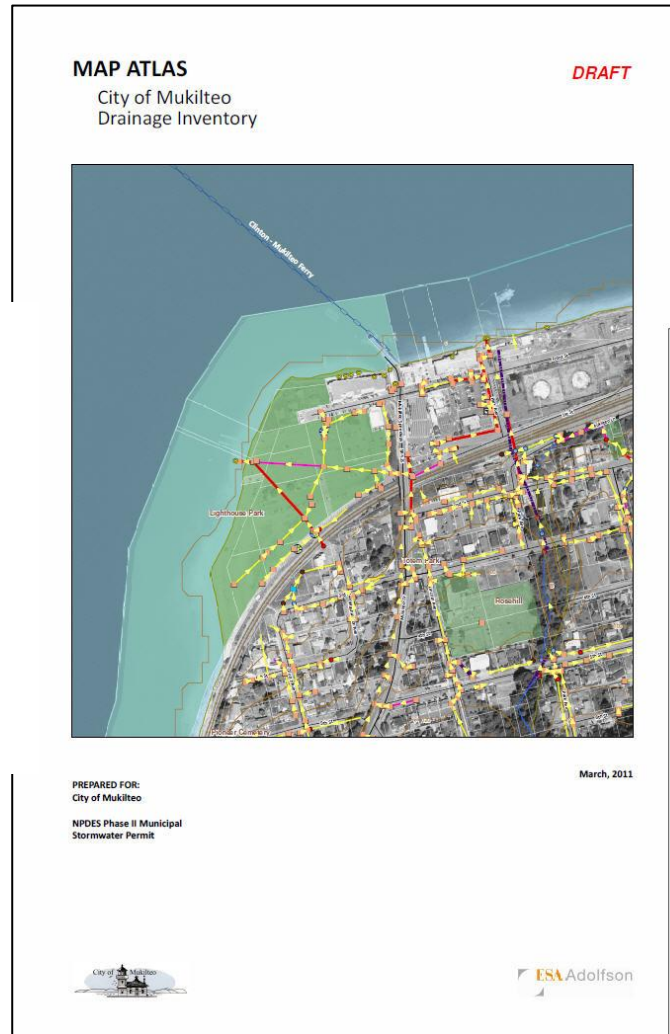
# Final Products

- Poster
- Map Atlas
- Geodatabase (GIS)
- Support documentation



# Final Products

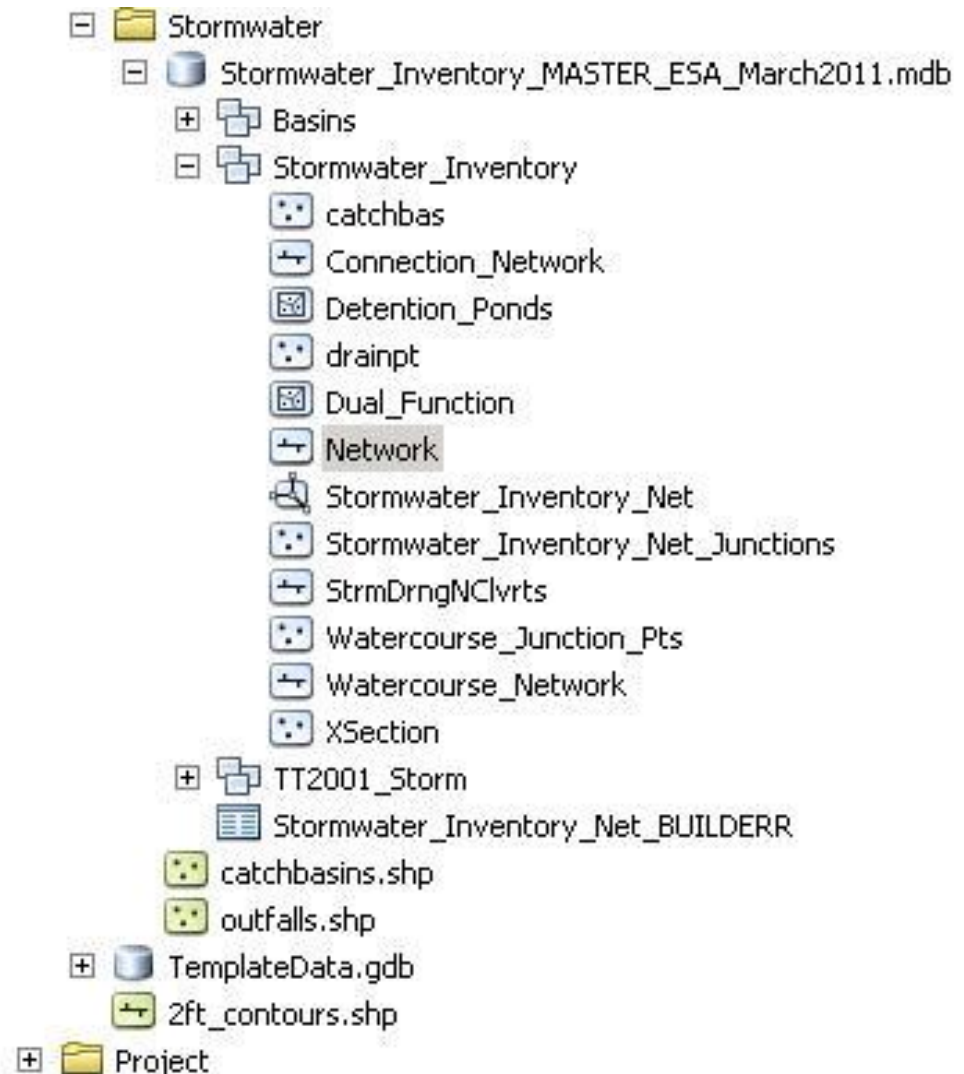
- Poster
- Map Atlas
- Geodatabase (GIS)
- Support documentation

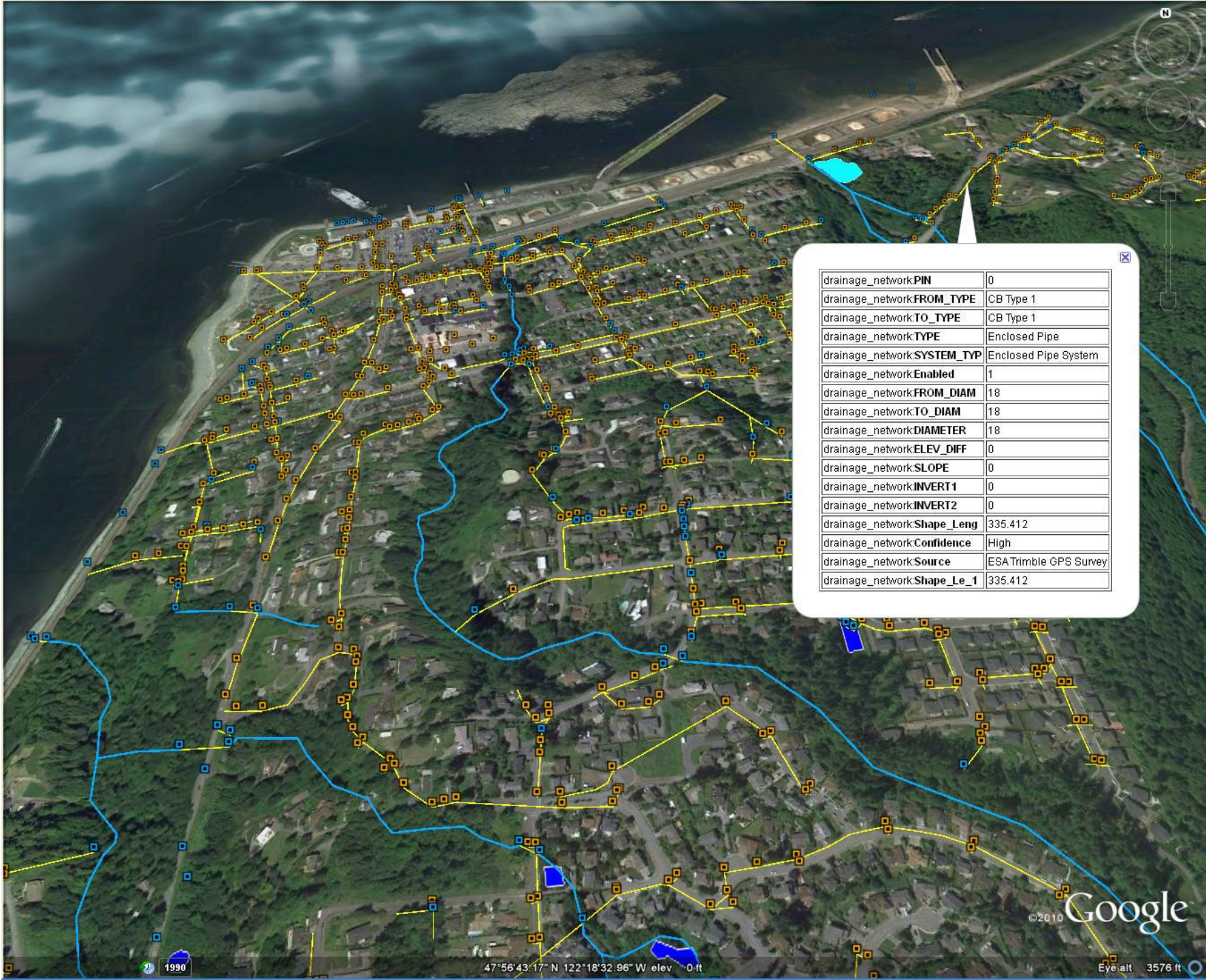


*Click here to open atlas*

# Final Products

- Poster
- Map Atlas
- Geodatabase  
(GIS)
- Support  
documentation





drainage_network:PIN	0
drainage_network:FROM_TYPE	CB Type 1
drainage_network:TO_TYPE	CB Type 1
drainage_network:TYPE	Enclosed Pipe
drainage_network:SYSTEM_TYP	Enclosed Pipe System
drainage_network:Enabled	1
drainage_network:FROM_DIAM	18
drainage_network:TO_DIAM	18
drainage_network:DIAMETER	18
drainage_network:ELEV_DIFF	0
drainage_network:SLOPE	0
drainage_network:INVERT1	0
drainage_network:INVERT2	0
drainage_network:Shape_Leng	335.412
drainage_network:Confidence	High
drainage_network:Source	ESA Trimble GPS Survey
drainage_network:Shape_Le_1	335.412

1990

47°56'43.17" N 122°18'32.96" W elev 0 ft

©2010 Google

Eye alt 3576 ft

# Conclusions

City now has:

1. Complete inventory of stormwater features
2. Ability to add/refine over time



# How can this product be used?

- Systematic Stormwater Maintenance
- Tools for Tracking Illicit Discharge
- Hydrologic and Hydraulic Modeling
- Basin Planning and Regional Coordination

# Next Steps

- Development of GIS-linked Maintenance Database
- Access for staff and public
  - Desktop-based (ArcReader, ArcGIS)
  - Web-based platform



# Acknowledgements

- City of Mukilteo Public Works
- City of Mukilteo Planning
- Snohomish County Surface Water Management Team

Questions?

