



The Town of Jamestown

GIS Program Summary

Summary of GIS

A Municipal Geographic Information System (GIS) is a combination of people, mapping, database software, and network infrastructure that allows communities to compile, sort, manage, and manipulate data to answer specific questions relating to safety, planning, public utilities, development, and recreation.

In 2006, the Town's GIS consultants, Fuss & O'Neill, completed a GIS Needs assessment and 5-year implementation plan. This plan gave the Town guidance in beginning Jamestown's GIS program, and over the next 5 years we hope to aggressively pursue GIS Development.

Recent Uses of GIS

- Produced map of snow plow routes
- Began mapping Town drainage system
- Developed new plat maps, and made them available to residents online
- Preliminary review of lots in High Groundwater District

Accomplishments for FY 06 -07



- Completed GIS Needs Assessment
- Completed 5-Year Implementation Plan
- Received geodatabase of all Jamestown tax parcels
- Updated Jamestown Plat Maps
- Hired Environmental Scientist / GIS coordinator
- Developed Pavement Management Database and road mapping capability
- Began mapping Jamestown's stormwater system in accordance with EPA Phase II Stormwater Regulations
- Purchased Trimble Geo XT GPS receiver to locate public utilities (Water, Sewer, & Drainage)
- Provided maps for land use planning (e.g. farmland acquisition)

Goals for Year 1 (FY 07 – 08)

- Continue to develop extensive stormwater database, map drainage components, and use database to track outfall sampling and illicit discharges.
- Merge Harbor database into Town's web-based program allowing the tracking and mapping of the new 2007 Mooring Applications
- Merge GIS database with Tax Assessor's database and provide Kiosk in Town Hall for the Public to search for property information and create maps and abutters lists
- Produce Wastewater Management / Septic System status maps
- Update Zoning information and link to tax parcel dataset
- Update Tax Map's with Historical Cemetery locations as required by State Regulations
- Continue to provide technical support to Harbor Department and update mapping as needed
- Provide technical support to Jamestown Tree Committee allowing for an intern to GPS locations of historical trees

Where We're Headed (Years 2 – 5)

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By 2012 The Town of Jamestown plans on having an extensive on-line GIS database that will allow residents to go online to research their property and produce their own custom maps.

In 2010 we plan on having an aerial planimetric survey completed. This is the most cost effective way for the Town to build multiple GIS layers for the entire island. These layers will include:

- Public Utilities (electric, sewer, and some drainage)
- Edge of pavement and sidewalks
- Trails and recreational areas
- Detailed aerial photos
- Detailed contours

The Town would like to create an online GIS database similar to Dedham, MA (http://host.appgeo.com/Dedham_gis/map.aspx), and our five year plan will allow us to do so.