

Environmental Information Services

Town of Old Orchard Beach, Maine GIS and Infrastructure Asset Management Program

PROJECT GOALS ACCOMPLISHED

The GIS was developed using the **LATEST TECHNOLOGIES**, including ESRI's ArcGIS geodatabase and modified data models.

CUSTOM hand-held **APPLICATIONS** were used to streamline field data collection efforts.

BASEMAPPING and **DATA LAYER DEVELOPMENT** was **ENHANCED** with a Town-wide flyover.

Expansion of the GIS was facilitated through **CUSTOM GIS APPLICATION DEVELOPMENT**.

The Town of Old Orchard Beach, Maine initiated a GIS and asset management program to support multiple municipal departments and inventory infrastructure assets. The stormwater and sewer inventory was to support compliance with the Government Accounting Standard Board's (GASB) Statement No. 34. Since previous mapping was not available, this project provided an opportunity to develop a comprehensive Town-wide GIS using ESRI's ArcGIS software and data models and Azteca Systems' Cityworks asset management software.



Orthophotography showing the historic Town pier and planimetrics developed from a 2003 flyover.

Field inventory was facilitated by custom hand-held applications

A field inventory and inspection including 1,700 manholes, catchbasins, and drainage

features was completed. The field program consisted of the collection of feature locations with GPS and feature attributes with hand-held devices. Custom applications were developed in Visual Basic for the Compaq iPAQ hand-held device to streamline the collection of feature attributes including pipe sizes, materials, directions of in and outflow pipes, and condition assessments. Field data was used to develop a stormwater and sewer network.



Infrastructure assets including manholes, catchbasins, and storm and sewer connectivity projected on the basemap.

Asset management supports program operations

Field data was verified from planimetrics produced by a flyover. The data was then uploaded to the Cityworks asset management system. The system will be used by the Finance Department annually for GASB reporting and routinely by the Public Works department for maintenance and resource allocation.



Town of Old Orchard Beach, Maine

The GIS and asset management system provides a valuable tool to support multiple municipal departments with program operations, resource allocation, and GASB 34 compliance.

Town-wide flyover provides accurate basemap

Planimetrics were prioritized to provide data necessary for GASB 34 and other key planning data layers. Selected planimetrics consisted of infrastructure, streets, hydrants, contours, wetlands, and parking areas. Orthophotography provided by the flyover served as a Town-wide basemap.



Custom applications and data layer development enhance GIS

Other major municipal data layers include FEMA floodplains, parcels, utilities, street centerlines, and Maine Office of GIS datasets. The Town's Vision assessing database will be joined with the parcel data layer to allow for integrated data querying abilities. Custom GIS applications will be developed at the Town's request and may support abutters, permits applications, and custom mapping.

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