

Case Study: GIS Analysts Earn Web Development Chops


CAPE COD COMMISSION

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## What is the situation?

The traditional solutions for wastewater treatment (sewer treatment systems) are EXPEN\$I VE and funding them often polarizes groups.

Stemming from Conservation Law Foundation (CLF) lawsuits filed in 2010 and 2011, a settlement was reached in 2014 for more stringent monitoring of Barnstable County's Area-wide Water Quality Plan per Clean Water Act § 208 Plan.

Under the settlement, the EPA and the Commonwealth of Massachusetts have worked with the Cape Cod Commission to update the Area-wide Plan by September 2015.

The Cape Cod Commission is committed to produce an effective, affordable and implementable updated 208 Plan to address the problem of nitrogen loading to Barnstable County's embayments.

## 208 Tools

The arrangement of DATA and development of I NNOVATI VE WEB TOOLS to analyze water quality and framework for designing responsible watershed plans.


## Geospatial

 approach to encourage regional solutions to a regional problem
## 208 Vewer v1



## 208 Viewer v2

## THIS IS COOL \& ALL, BUT WHAT'S COOLER THAN BEI NG COOL?



## 208 Viewer v2



## 208 Viewer v3


var $x=\$$ (this) $\cdot$ find $(" x ") \cdot \operatorname{text}() ;$
var $y=\$$ (this).find (" $y$ ")
xList.push(x);
yList.push(y);
var point $=[$ parseInt $(x)$, parseInt(y)];
nodes.push(point);
\});
rings.push(nodes);
var geo $=$ \{ rings: rings, spatialReference: sr \};
if (treatmentType $==$ "CentralizedFacilityoutside") \{ //navy
var popupVal = "Centralized Sewer Facility (outside watershed)";

## 208 Viewer vCurrent

## LIVE DEMO (208.CCC)



## 208 Viewer vFuture

> Migrate code to a PHP enabled server
> Using PHP to connect the application to SQL databases (removing need of XML document creation)
> Integration of the WIN Model within the Viewer
$>$ Continue to learn how to code!


