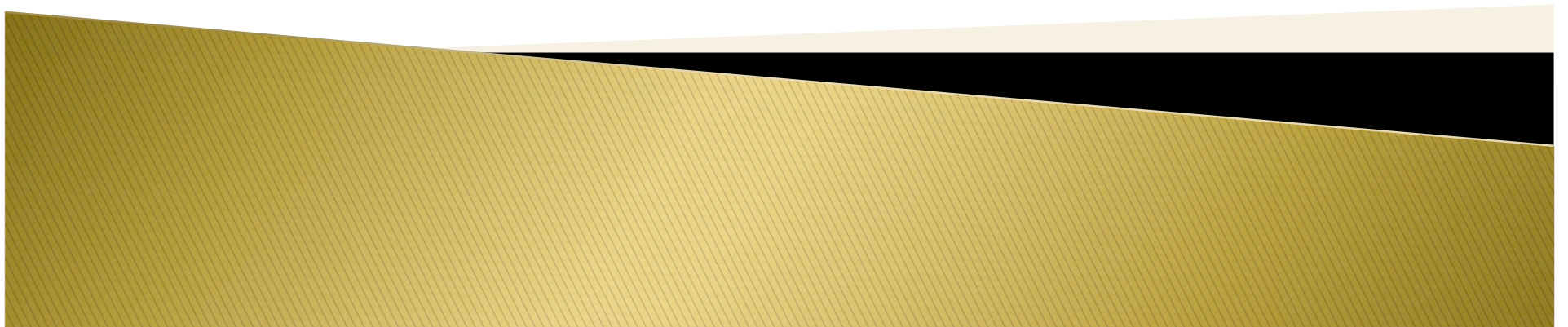


Developing a Municipal Stormwater Management Program for a Semi-Rural Community

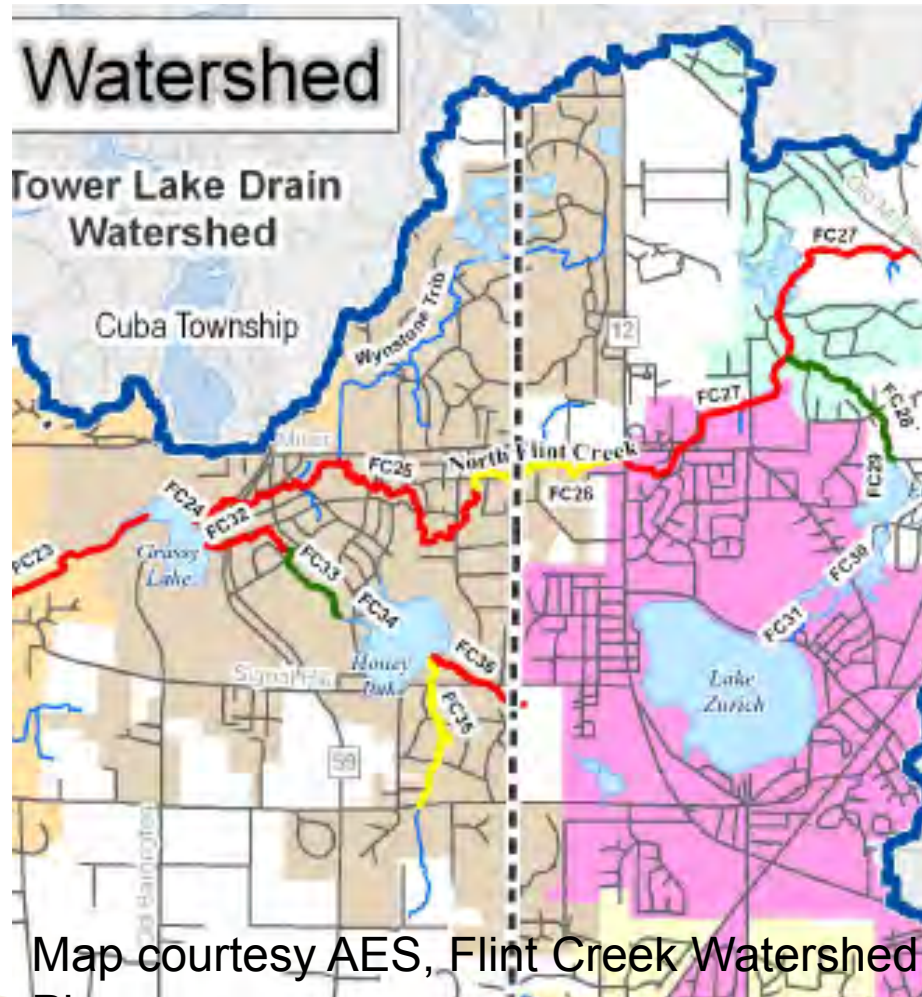
Albert K. Stefan, P.E.

Nancy Schumm, CWS, CPESC

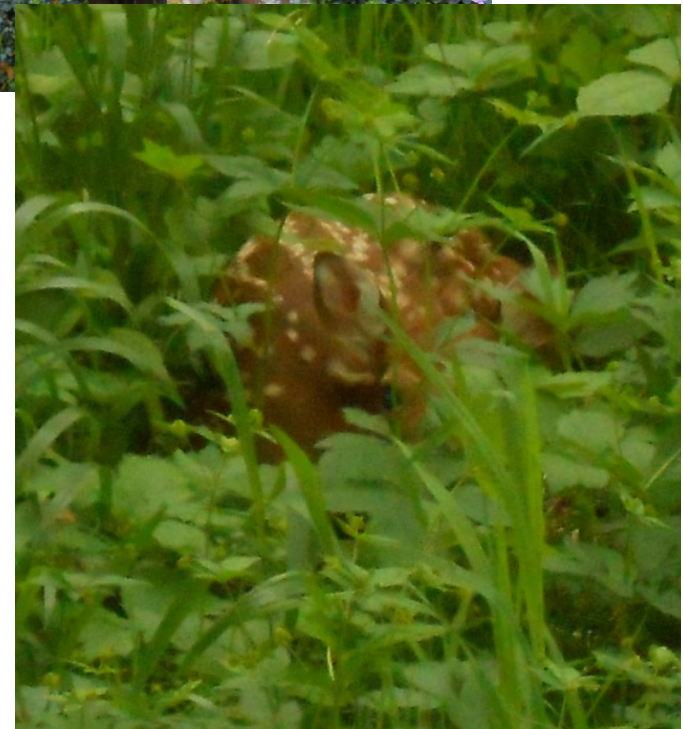
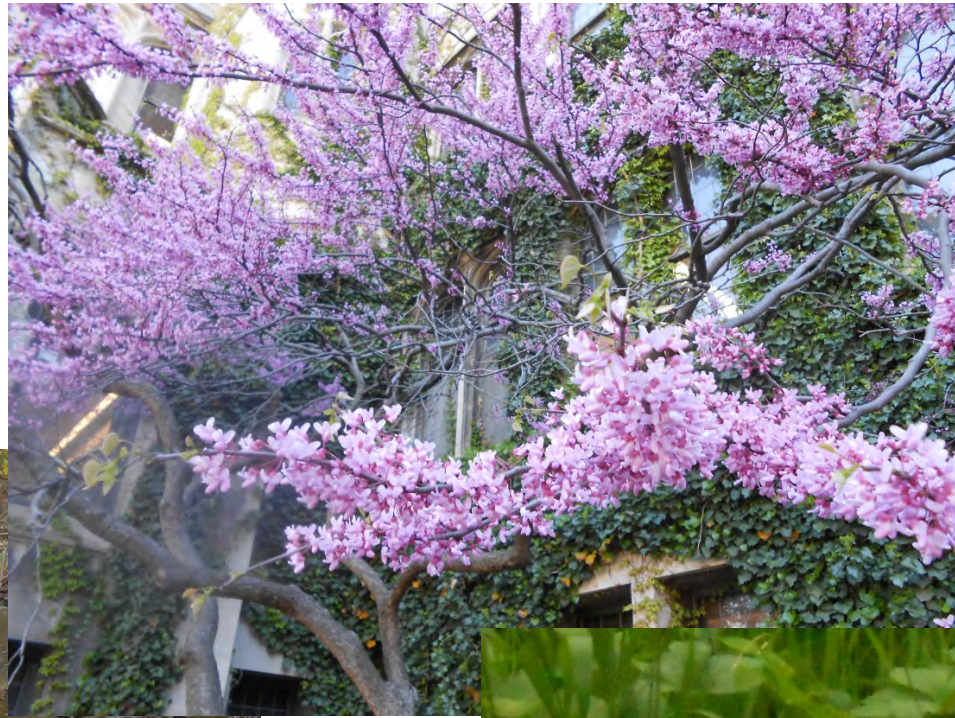


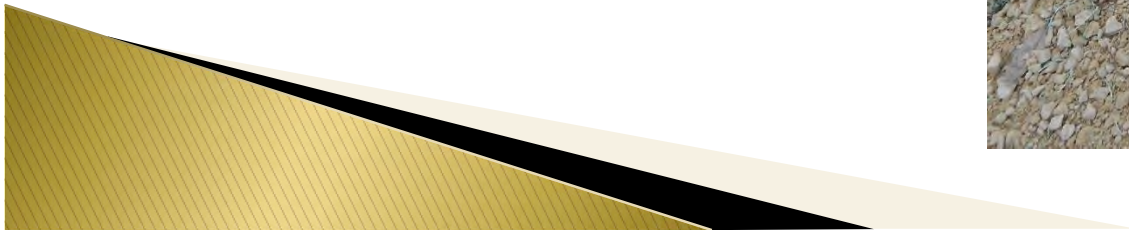
Village of North Barrington

North Barrington



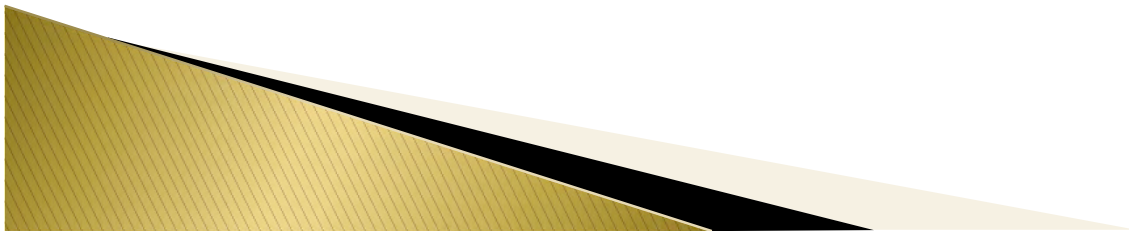
Map courtesy AES, Flint Creek Watershed Plan





Who holds the keys?

- ▶ Village Manager
- ▶ Village Engineers
- ▶ Township Highway Department
- ▶ Elected officials
- ▶ Consultants
- ▶ Stormwater Management Commission
- ▶ Local Council of Governments



Where is the data?



Existing web-based solutions offer:

- Online Forms for Input/Edit
- Secured Data
- Multi-functional uses
- Quick Start-up
- Shared Cost
- Unlimited Access
- Minimal Training

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Ruekert Mielke's GIS blog

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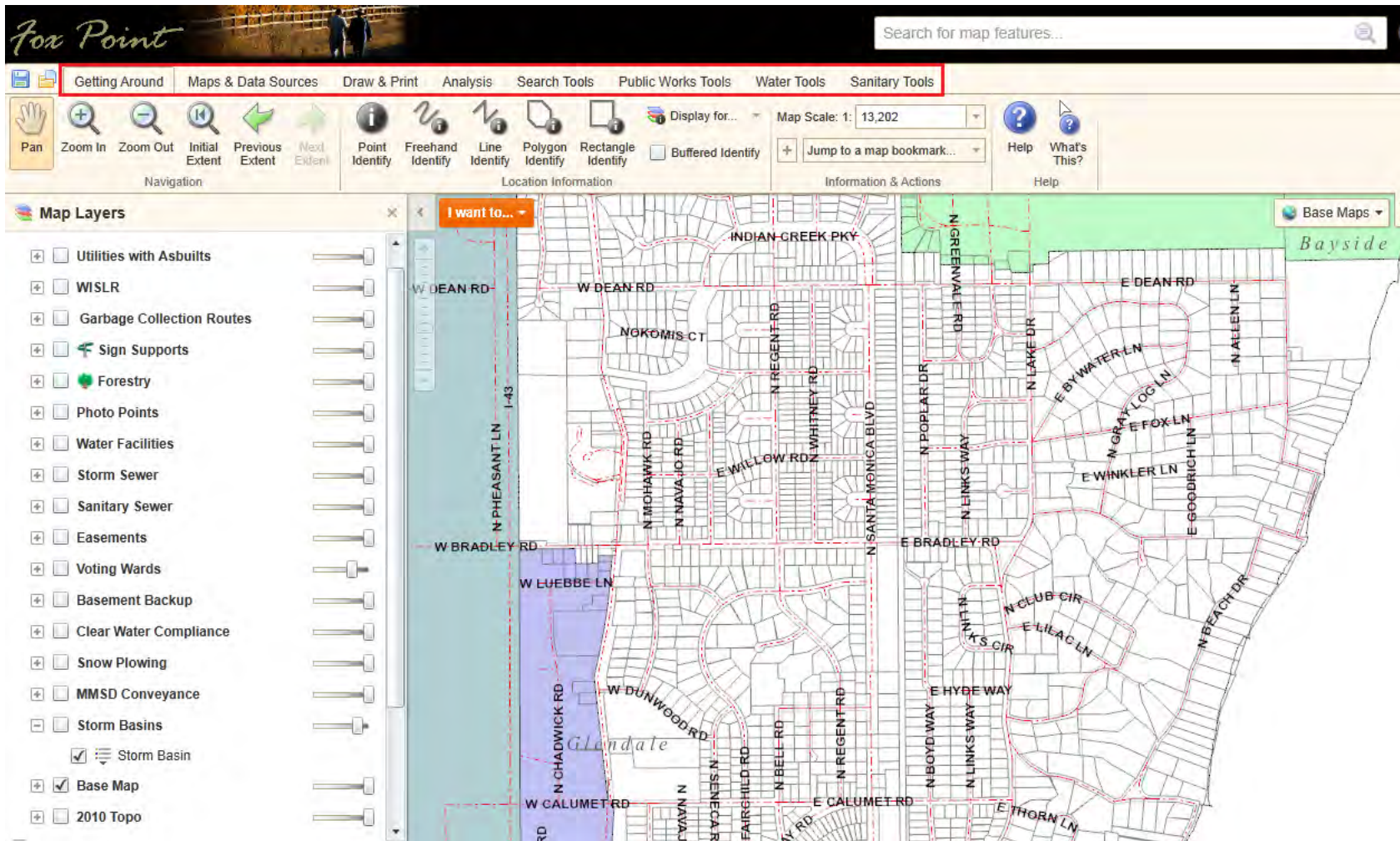
There are 7 users online.

Desktop Access Mobile Access Manage Water Meters Meter Testing

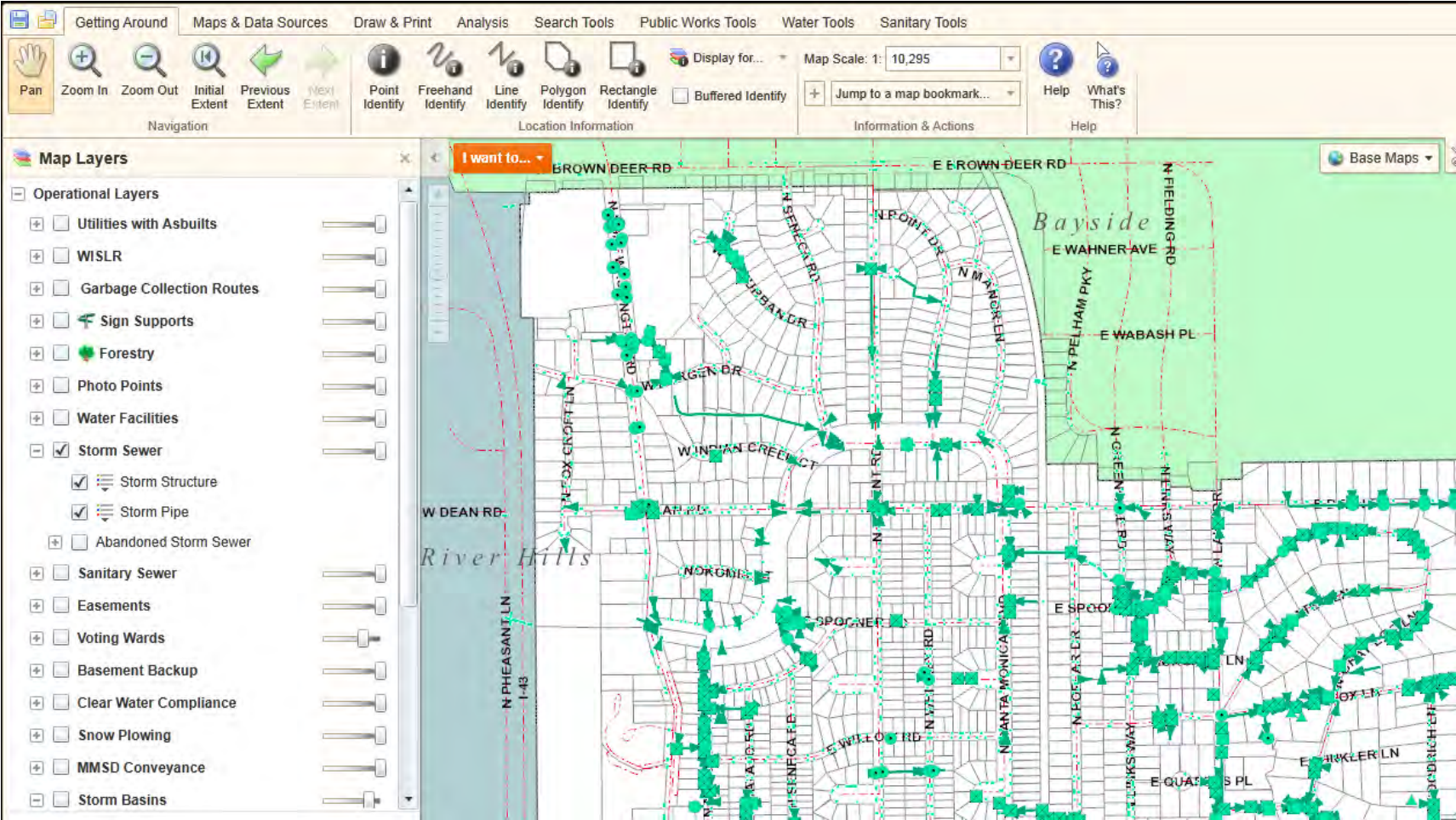
Administration Who's Online? Change Password

Created and hosted by Ruekert & Mielke, Inc. © 2014

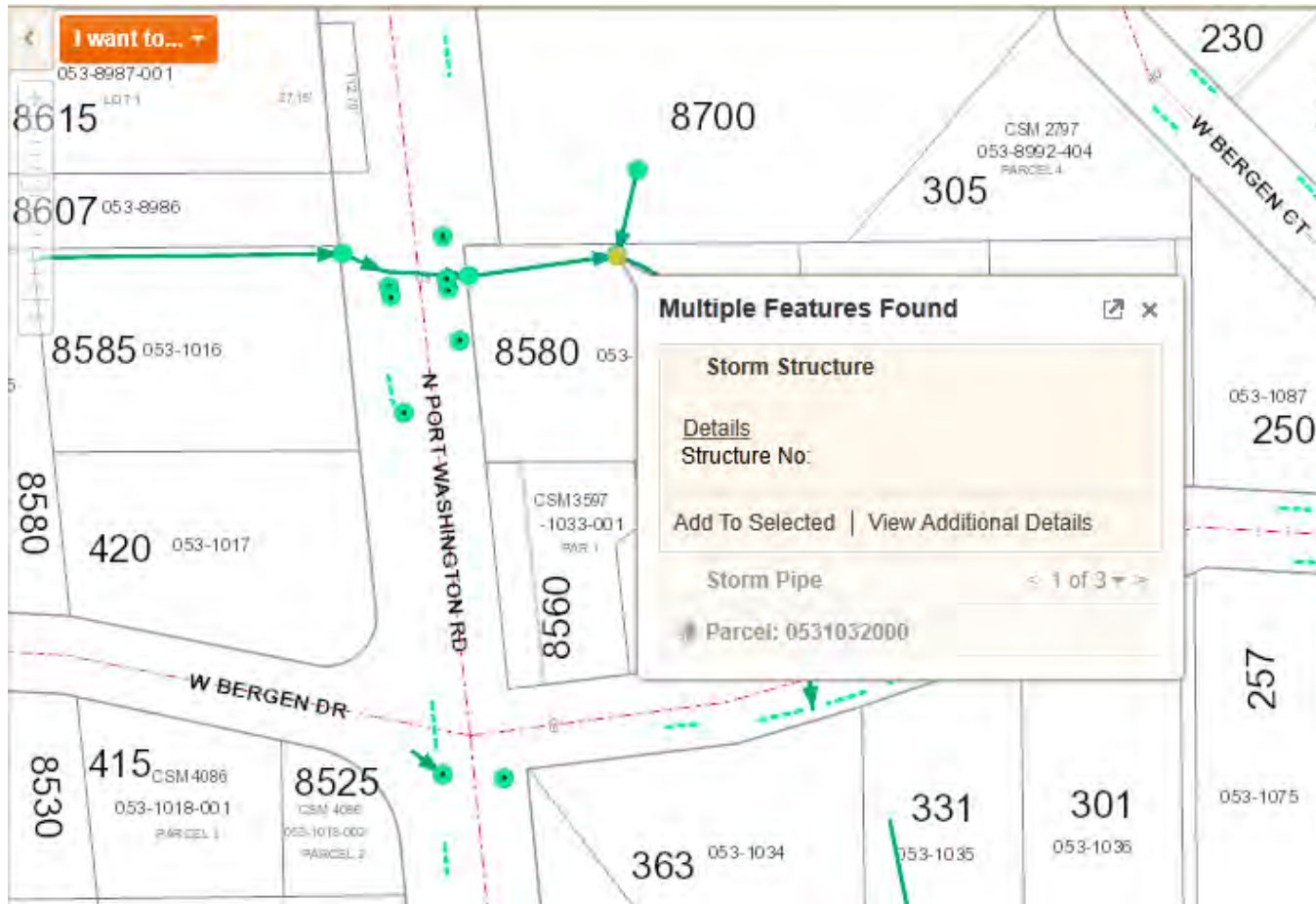
User-friendly Interface with Inter-Department Tools



Storm Water Facilities

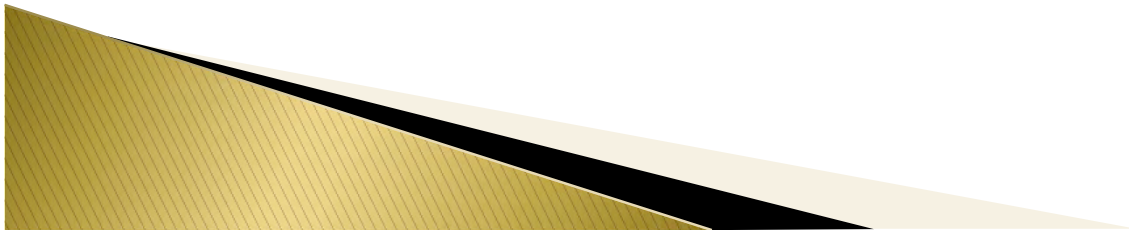


Point & Click Selection



Structure Data Dashboard

STRUCTURE DATA					
Structure No:	<input type="text"/>	Basin:	<input type="text"/>	Location:	<input type="text"/>
Rim (ft):	<input type="text"/>	Type:	Manhole	Depth (ft):	64
Size (in):	36	Material:	RCP	Frame:	<input type="text"/>
Private:	<input type="checkbox"/>	Year Installed:	<input type="text"/>	Status:	Active
Comments:	<input type="text"/>				
<input type="button" value="Edit"/>					
<input type="button" value="Inspections"/> <input type="button" value="Repairs"/> <input type="button" value="West Nile Treatments"/> <input type="button" value="Asbuilt Drawings"/>					
<input type="button" value="Add Inspection"/>					
<input type="button" value="Close"/>					



Pipe Data Dashboard

PIPE DATA

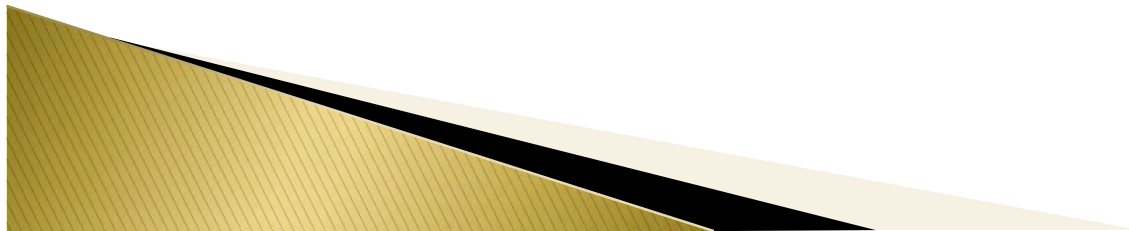
Pipe ID:		Pipe Size (in):	<input type="text" value="Select ..."/>	Length (ft):	<input type="text" value="123.0"/>
Material:	<input type="text" value="CMP"/>	Type:	<input type="text" value="Main"/>	Problem:	<input type="checkbox"/>
Year Cleaned:	<input type="text"/>	Year Installed:	<input type="text"/>	Private:	<input type="checkbox"/>
			Year Installed:	Status:	<input type="text" value="Active"/>

Upstream #			Downstream #		
Up Inv:	<input type="text"/>	Dir From Up:	<input type="text" value="E"/>	Dn Inv:	<input type="text"/>
Up MD:	<input type="text"/>			Dn MD:	<input type="text"/>
Dir From Dn:	<input type="text" value="W"/>				

Comments:

Asbuilt Drawings

Asbuilts			
	Asbuilt Year	Asbuilt File	Description
<input type="checkbox"/>	1979	Asbuilt File	Bergen Dr to Port Rd



Getting Around | Maps & Data Sources | Draw & Print | Analysis | Search Tools | Public Works Tools | Water Tools | Sanitary Tools

Show Layers | Enable Map Tips | Display for... | Add Map Layer | Add Shapefile | Add CSV file | Bing™ Maps | Google Maps™ | Simple Query | Advanced Query | Advanced Filter

Map Layers | Map Tips | Add Data | External Mapping | Query Data

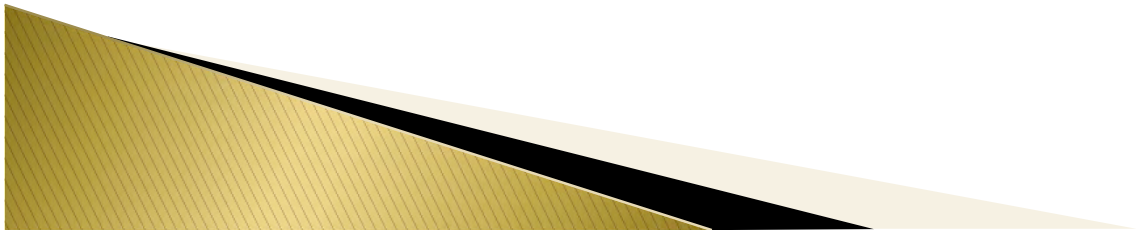
Results (5) | I want to... | View History | View Selected | Refine Results | Table View | Select All | Select None

Storm Pipe
 Details
 Pipe ID:
 Diameter:
 Material: CMP

Storm Pipe
 Details
 Pipe ID:
 Diameter:
 Material: CMP

Storm Pipe
 Details
 Pipe ID:
 Diameter:
 Material: CMP

Parcel: 0531032000
 Parcel Dashboard
 Property Address:
 8580 N PORT WASHINGTON RD
 Owner Name/Address:
 ELAINE M SAUER
 8580 N PT WASHINGTON RD
 MILWAUKEE, WI, 53217-2235
 Add To Selected | View Additional Details



Parcel Data Dashboard

PARCEL DATA

Taxkey: 0531032000 Owner: ELAINE M SAUER
Address: 8580 N PORT WASHINGTON RD

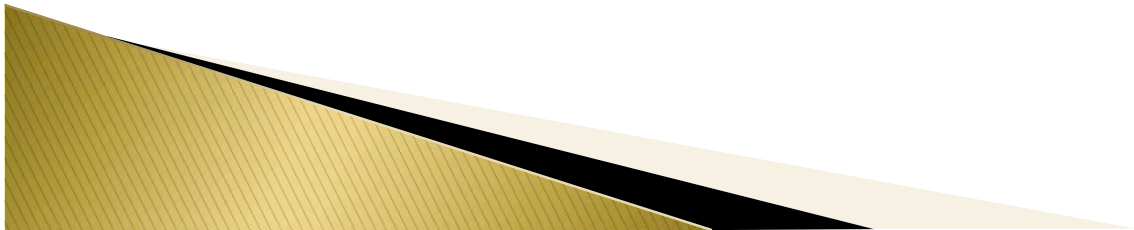
[Clearwater Compliance](#) | [Basement Backups](#) | [Water Quality](#) | [Commercial Businesses](#) | [Document Upload](#)

CLEARWATER CODE COMPLIANCE INSPECTIONS

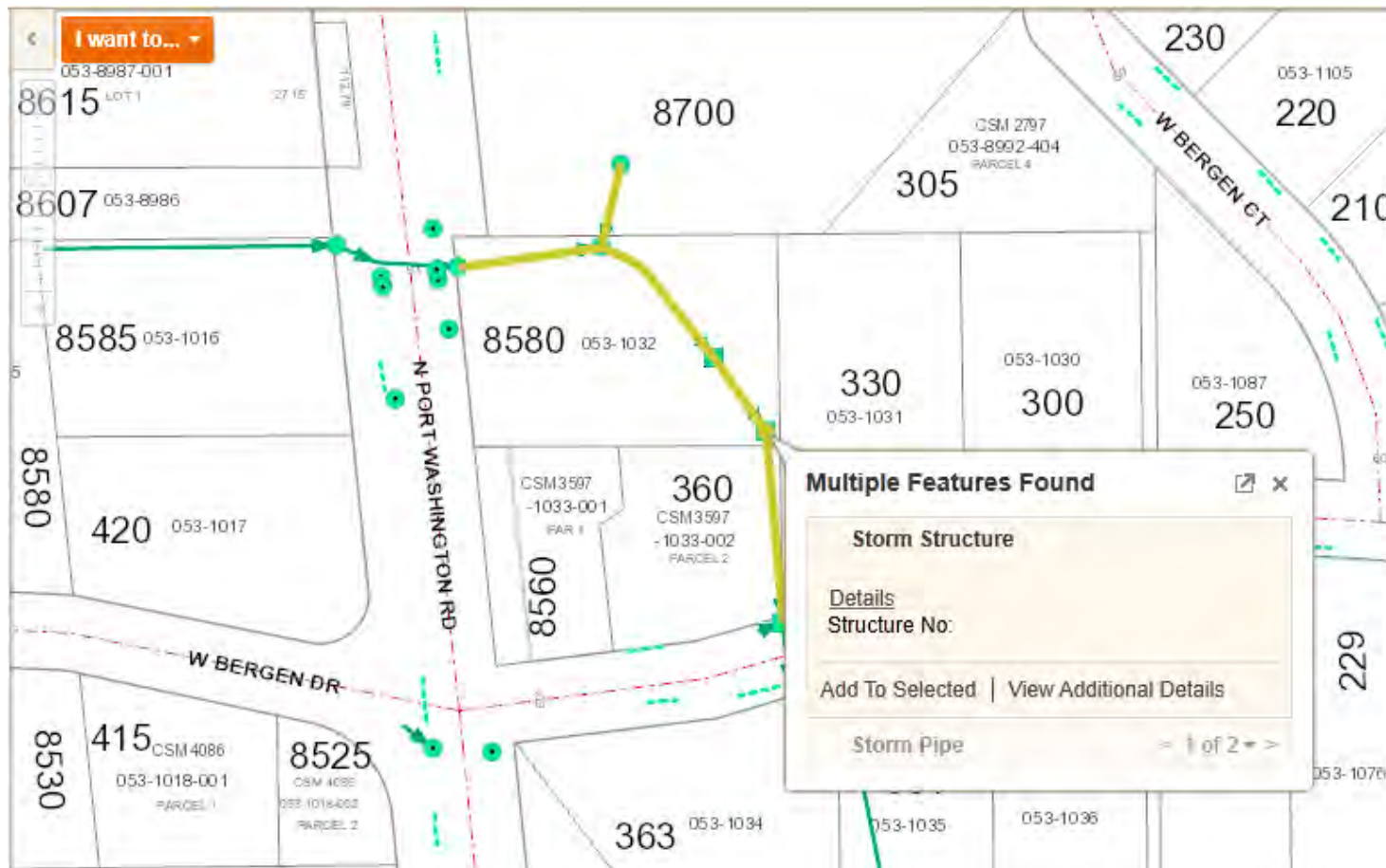
No Inspection Records Found.

[Add New Inspection](#)

[Close](#)



Simple Process for Updating Information for Multiple Features



Print Tool

The screenshot displays a GIS application interface with a top menu bar containing: Getting Around, Maps & Data Sources, Draw & Print, Analysis, Search Tools, Public Works Tools, Water Tools, and Sanitary Tools. Below the menu is a toolbar with icons for Print Map, Reports, Export Map, View Results, and View Selected. A secondary toolbar includes drawing tools: Point, Polygon, Circle, Text, Edit Drawing, Freehand, Rectangle, Ellipse, Undo, Erase Drawing, Line, Arrow, Triangle, Redo, and Clear All Drawings.

The main workspace shows a map with parcel boundaries and a yellow line representing a storm structure. A search bar at the top left of the map area contains the text "I want to...".

On the left side, the "Print Map" panel is open, showing the following settings:

- Select Layout: 8.5 x 11 Portrait
- Output Format: Pdf
- Resolution: Normal
- Map Scale: Current Extent
- Grid: (None)
- Map Title: Village of Fox Point GIS
- Sub Title: (empty)

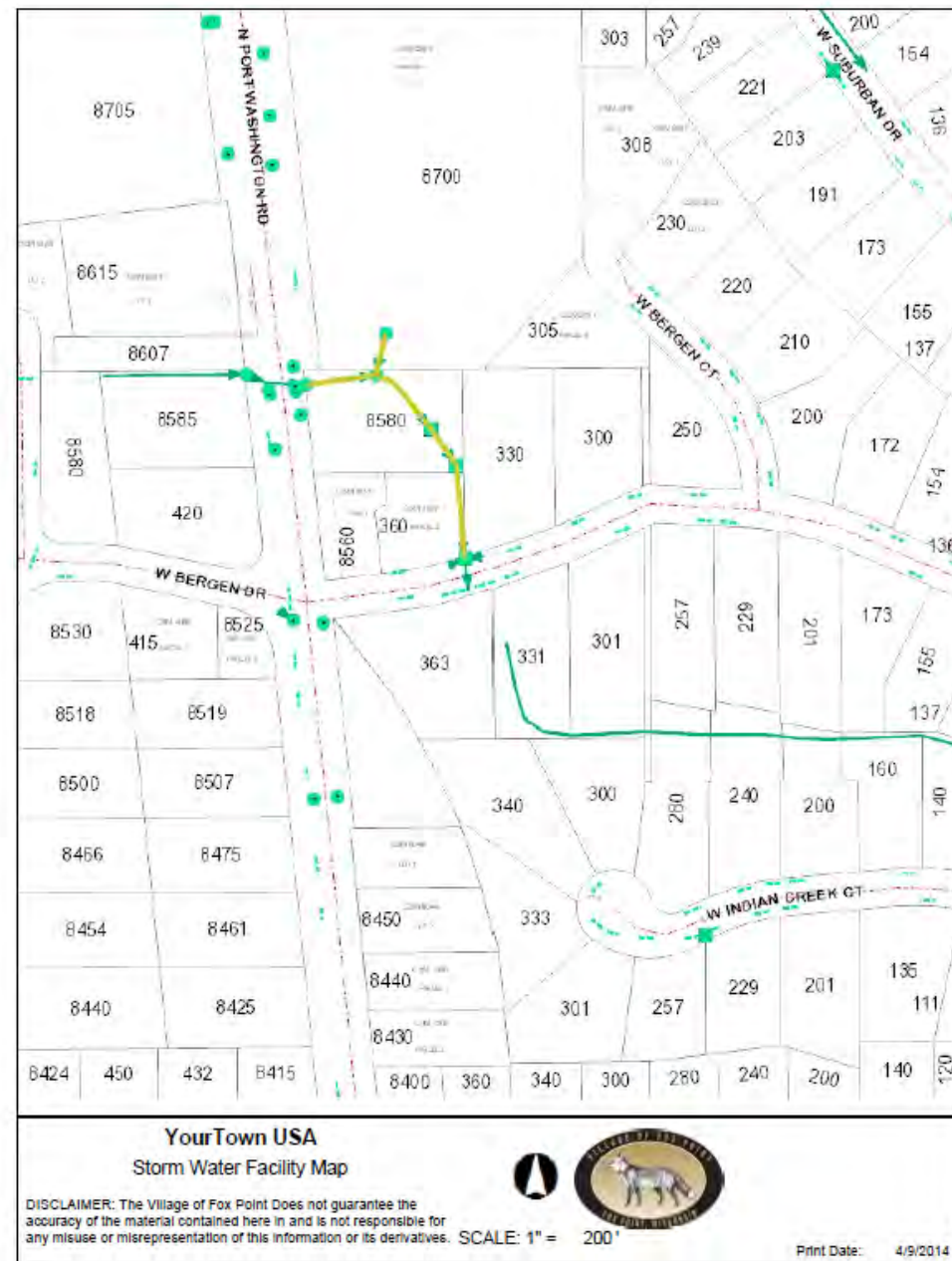
Buttons for "Create File" and "Cancel" are located at the bottom of the Print Map panel.

A "Multiple Features Found" dialog box is open in the bottom right corner, displaying the following information:

- Storm Structure**
- Details
- Structure No:
- Add To Selected | View Additional Details
- Storm Pipe < 1 of 2 >

The map background shows various parcel numbers and street names, including "N PORT WASHINGTON RD", "W BERGEN DR", and "W BERGEN CT".

Print tool creates PDF file that can be printed on multiple sheet sizes at various scales, saved to local workstation or network, or emailed to others.



Questions?

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