

GIS WEBVIEWER TRAINING

GIS Department

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Introduction









- The Bay County and Bay City FetchGIS Service is a web and mobile application developed to serve those interested in our community.
- The service provides access to Bay County and Bay City information through interactive mapping and information discovery tools.
- Information provided in the service includes geographic information system (GIS) data managed as map layers like parcels, transportation and imagery, in addition to land information maintained by the Bay County Equalization Department and Treasurer's Office.

The screenshot displays the FetchGIS web application interface. On the left, a satellite map shows a parcel boundary in red. Three callouts are present: 1. 'Info Windows' pointing to a small popup for parcel ID '000-030-100-100-00'. 2. 'Info Windows' pointing to a larger popup for parcel ID '000-030-100-100-00' with a 'Show Details' button. 3. 'Map Navigation Tools' pointing to a navigation control on the map. On the right, a 'Land Information Pane' displays the following data:

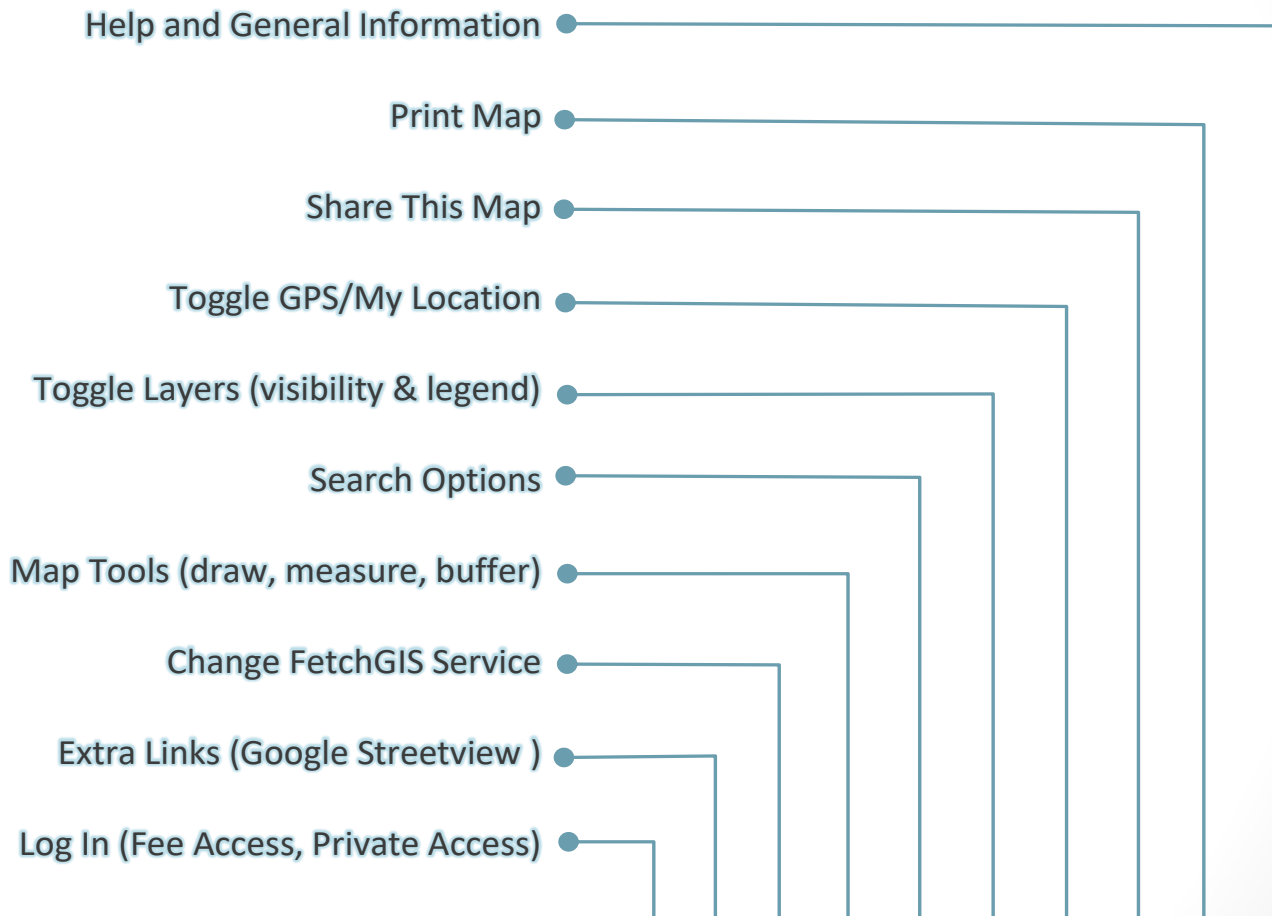
Property Address			
WINDSEN RD SANFORD, MI 49687			
Owner Address			
STATE OF MICHIGAN DNR	Unit: 000		
PO BOX 30028	Unit Name: --		
LANSHING, MI --			
General information for Current Tax year			
Parcel Number:	000-030-100-100-00	Assessed Value	\$0
Property Class:	700	Taxable Value	\$0
Class Name:	--		
School Dist Code:	--		
School Dist Name:	SEV		
SEV:	--		
Date Filed:	--		
PRS Last Year May:	0%	Final SEV	\$0
PRS Last Year Final:	0%	Final Taxable	\$0
PRE May:	0%		
Prev Year Info	MBOR Assessed	Final SEV	Final Taxable
Last Year	\$0	\$0	\$0
2 yrs ago	\$0	\$0	\$0
Land Information			
Acres:	.953 87		
Legal Information			
SEC 30 T10N R10W W 1/2 OF NE 1/4 & S 1/2 OF SEC			
Sales Information			
--			

On the far right, a legend shows checked boxes for 'Parcels', 'Streets', and 'Imagery', and an unchecked box for 'Parks'. The FetchGIS logo is visible in the bottom right corner.

Map Basics

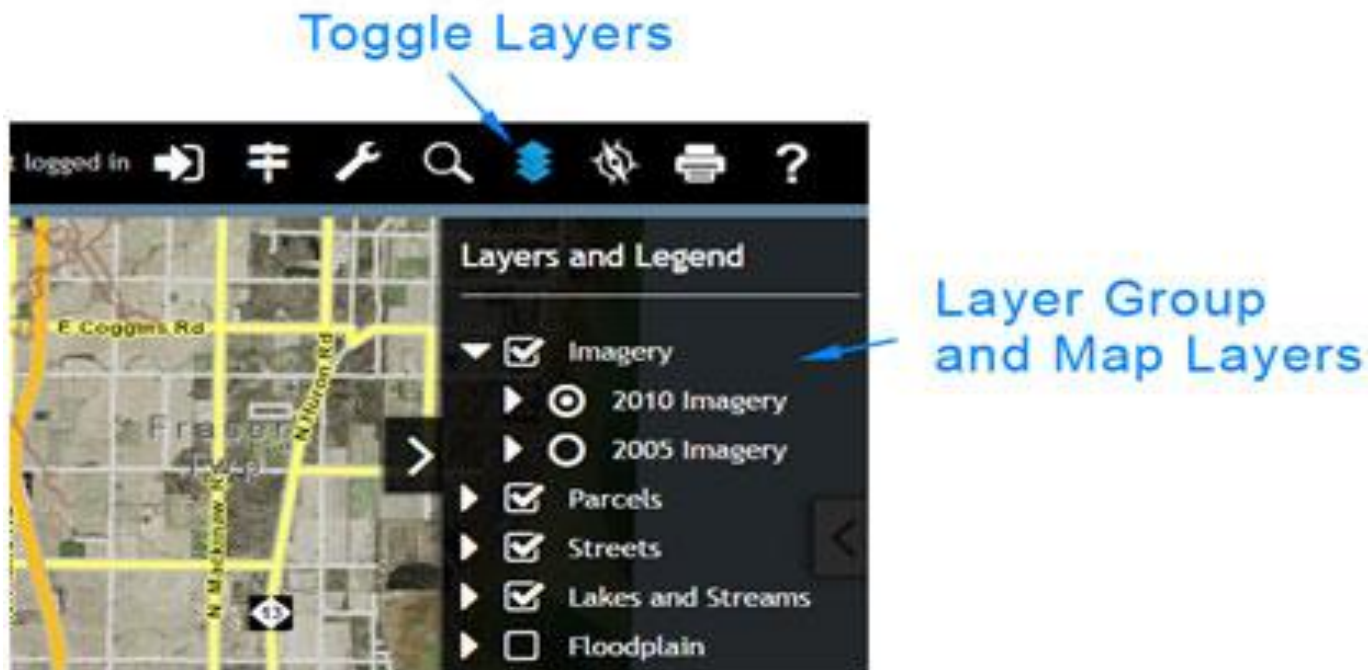
- **Overview Map** 
- **Zoom In** - Click and drag the mouse over an area, then release to zoom in. The smaller the drawn box, the further the map will zoom in. 
- **Zoom Out** - Click and drag the mouse over an area, then release to zoom out. The smaller the drawn box, the further the map will zoom out. 
- **Original Zoom** - Returns map to the original view. 
- **Zoom Previous** - Returns the map display to the previous view after a zoom action has been performed. 
- **Zoom Next** - Returns the map display to the previous view after a Zoom Previous action has been performed. 
- **Pan** - Click and drag map display to change location. 
- **Incremental Zoom** - Zoom controls located just left of the Navigation Toolbar used to zoom in (+) or zoom out (-) one level. 

Map Basics



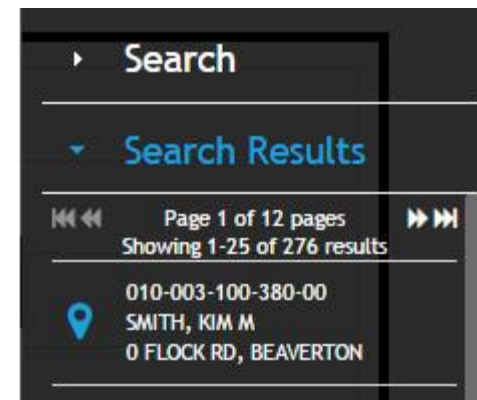
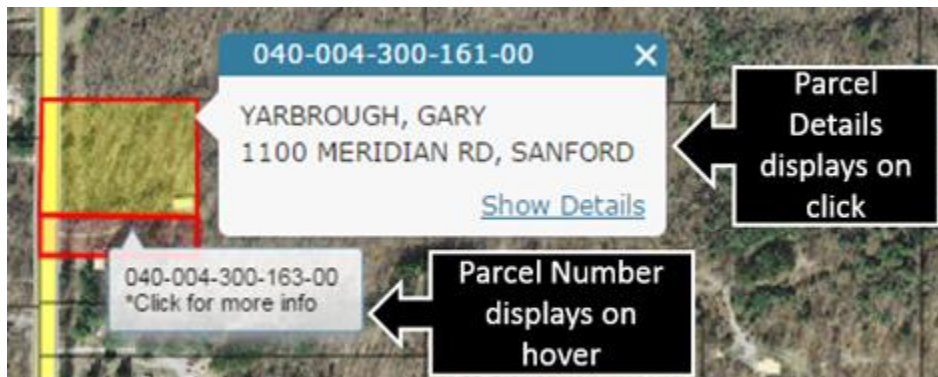
Layers

- Imagery (2005, 2010, 2015)
- Parcels
- Informational: Streets, Floodplain, Wetlands, Points of Interest, Parks, Trails, Schools, Public Safety, Voting
- What would you like to see?



How to Search


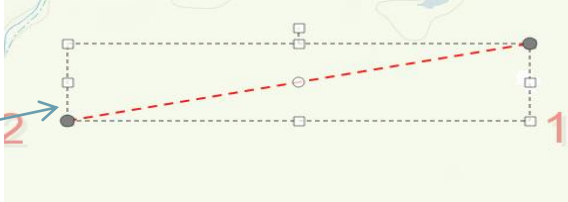
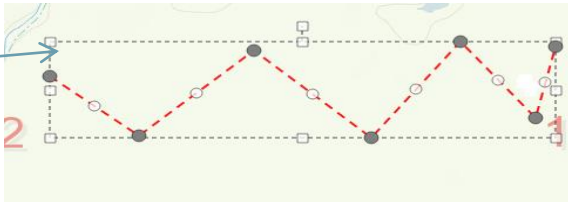
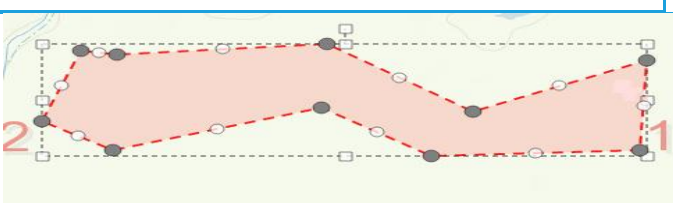
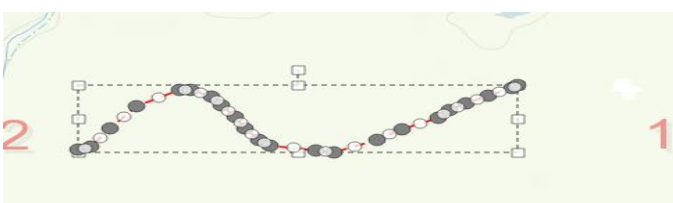
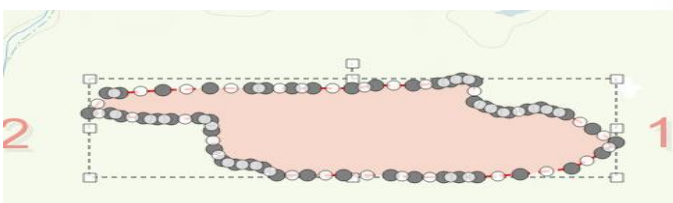
- Parcel Search- need 14 digit parcel number
- Owner Name- will produce a list of owner with the name in bay county- e.g. search Stark and get 27 results in Bay County
- Street Address- Address name and number can be case and spelling sensitive- e.g.. Spelling out 9th street such ninth street
- Road Intersection- looking for a intersection between streets
- Coordinate Search- decimal degrees (-83.902, 43.580)



Tools

- Drawing Tools-

- **Point Tool**
- **Line Tool**
- **Polyline Tool**
- **Polygon Tool**
- **Freehand Polygon Tool**
- **Add Text**

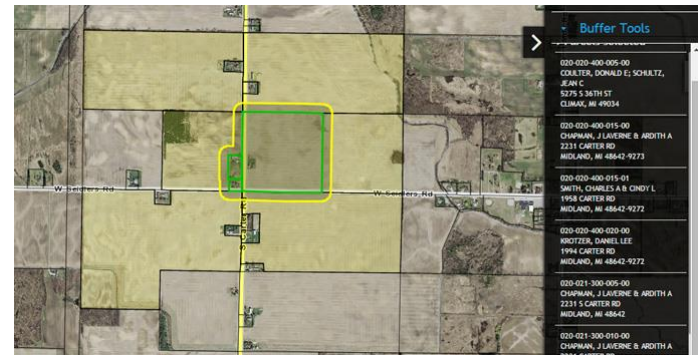
Graphic Element	Selected Appearance	Editing Options
Point		Move
Line		Move, Scale, Rotate
Polyline		Move, Scale, Rotate, Vertices
Polygon		Move, Scale, Rotate, Vertices
Free Form Polyline		Move, Scale, Rotate, Vertices
Free Form Polygon		Move, Scale, Rotate, Vertices

Tools

- Measurement Tool-
 - Location- Gives Degree and Long/Lat point information
 - Distance- Calculates distance from selected point to point
 - Area- Must double right click to complete area

- Buffer Tool- Create a buffer zone
Of a certain distance around selected
Area or parcel

- Miscellaneous Tools- A tool that
Allows users to change from aerial data from 2005, 2010, and
2015

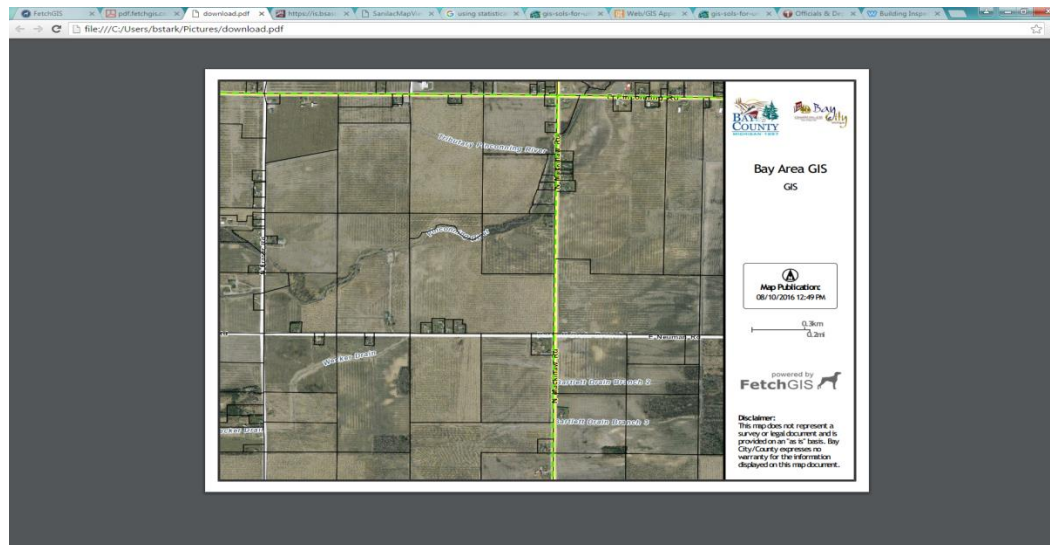


Printing

The following options can be modified for a Map:

- **Title** - Enter a new Map Title in the input box.
- **Subtitle** - Add a Subtitle by entering text in the Subtitle input box.
- **Paper Size** - Select between Letter and Legal for paper size.
- **Paper Orientation** - Select Landscape or Portrait.
- **North Arrow** - Select a North Arrow to be used in the Map.

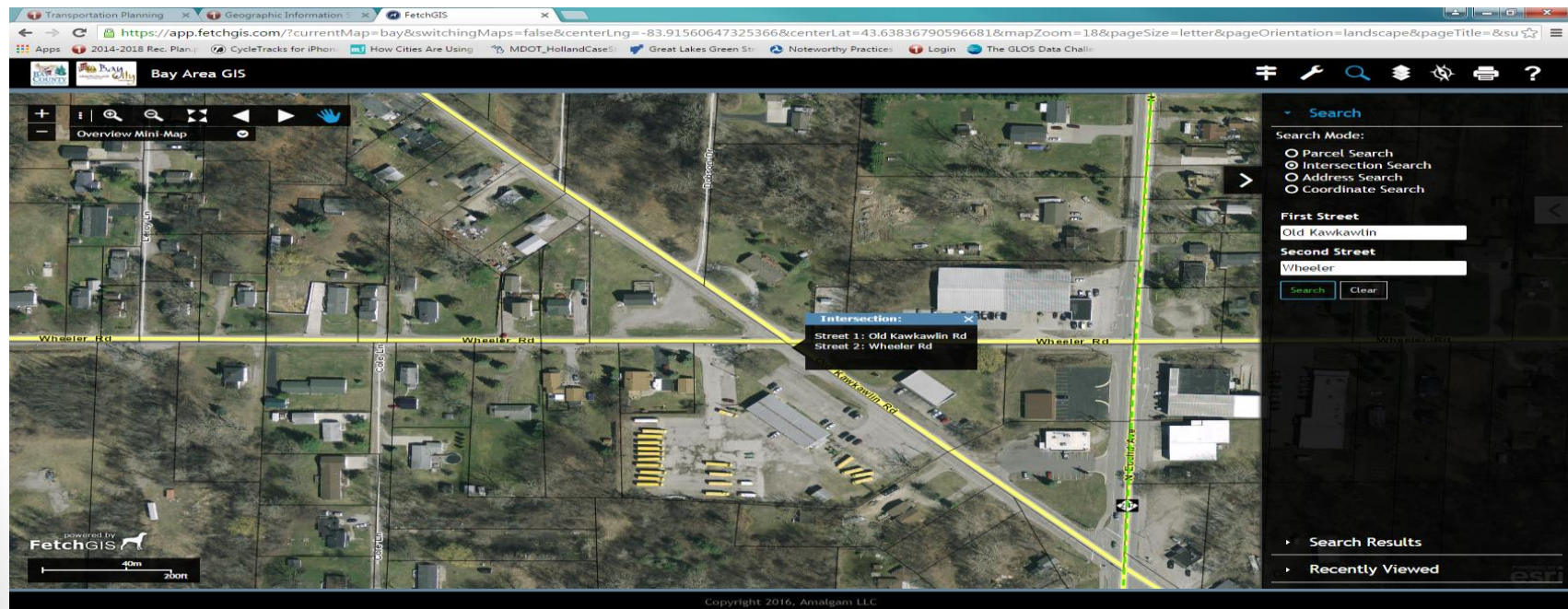
Then Generate the PDF map for printing or print from page



Example of Project

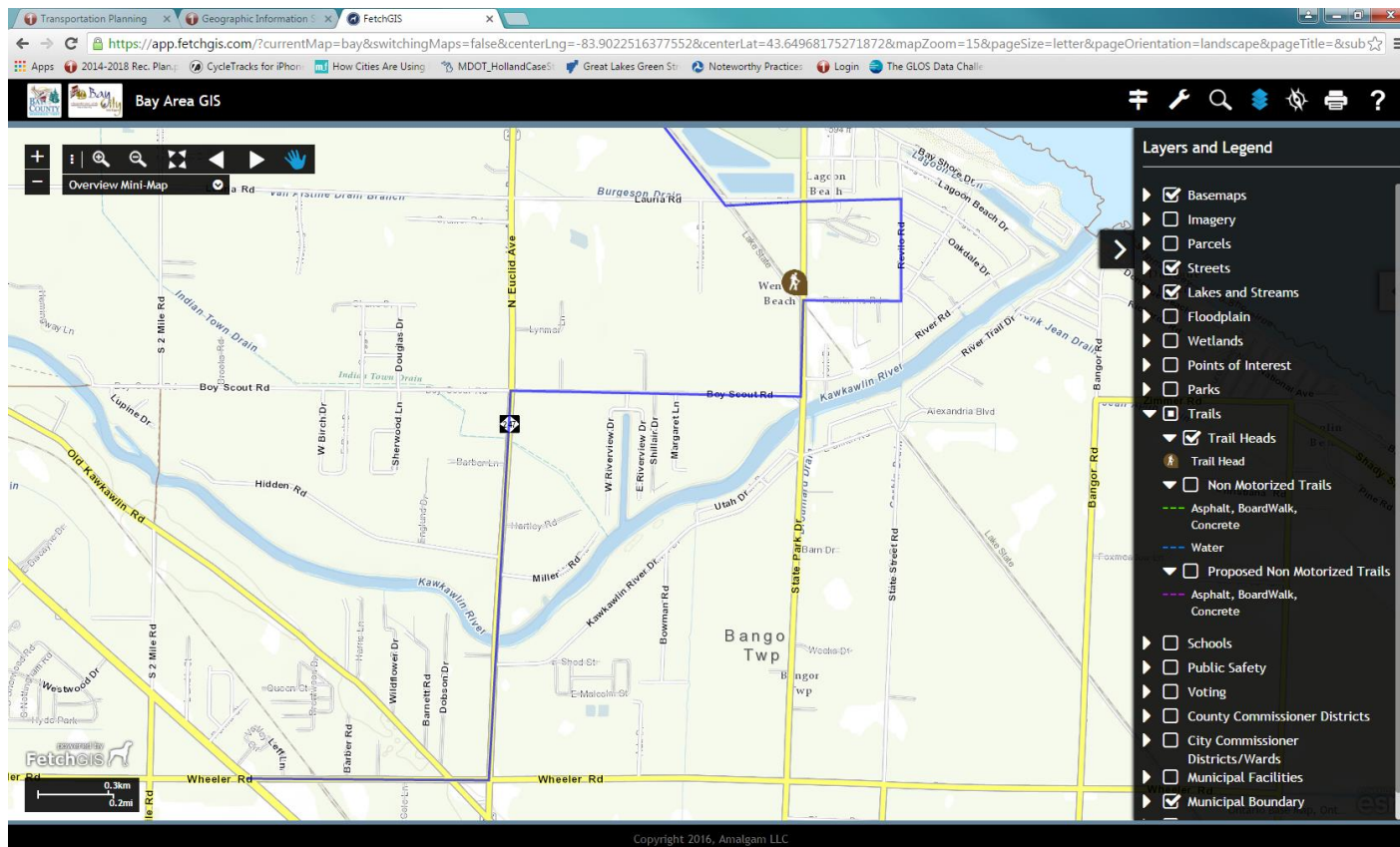
Creating a map of a new projected trail and the locating the adjacent home owners impacted by the trail

- Find Location by either zooming into the subject area or use the search tool.
- Creating a trail from the corner of Old Kawkawlin Road and Wheeler Road to Bay City State Park



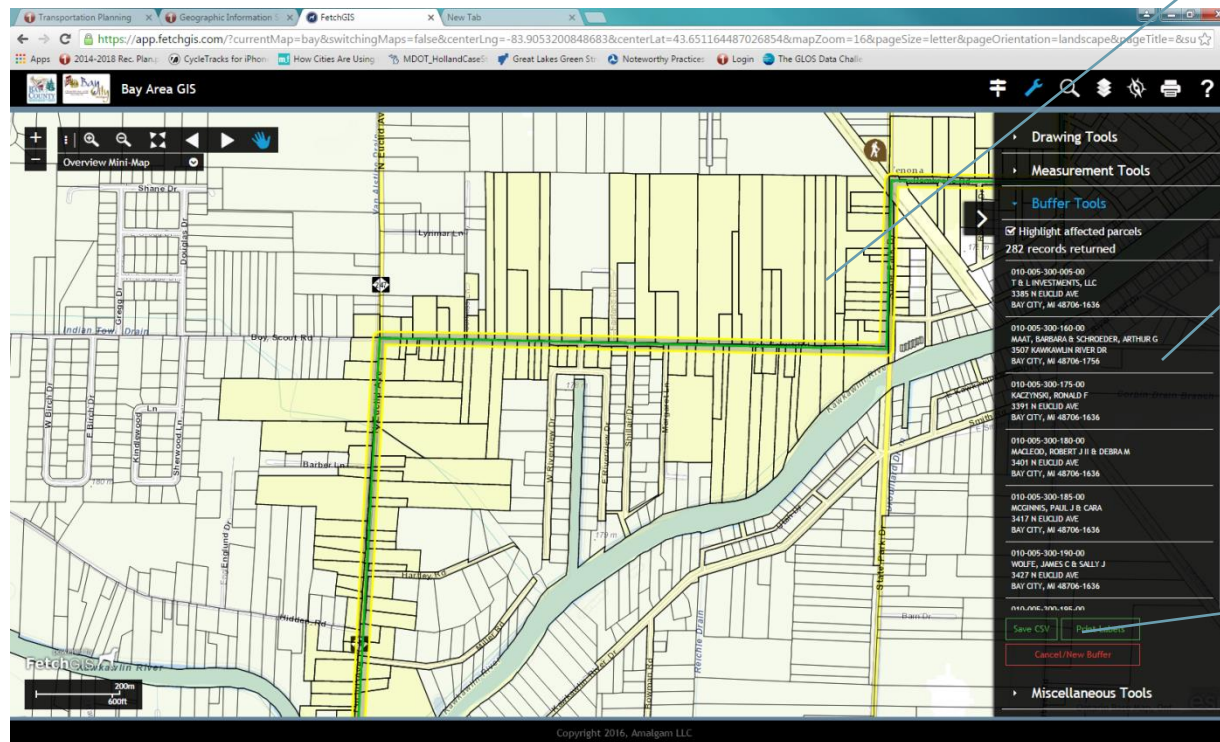
Example of Project

- Create Trail poly-line using drawing tools- Tip can hold down right mouse button to move map and use scroll to zoom in and out, while creating line



Example of Project

- Using buffer tools to create 50 foot buffer around created polyline- first select route then click run
- Will generate a list of affected Parcels



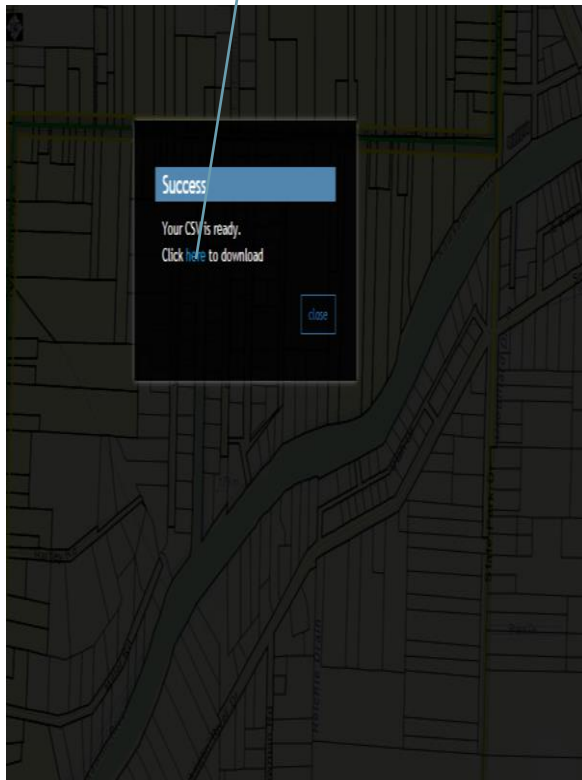
Buffered
Parcels

Selected
Parcels

Print Labels
or Create
CSV File

Example of Project

Save Parcels as CSV
file



Labels created from Selected Parcels

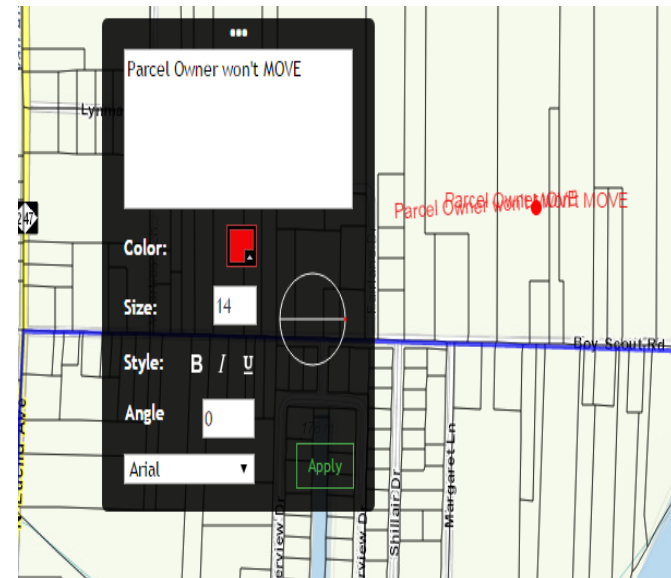
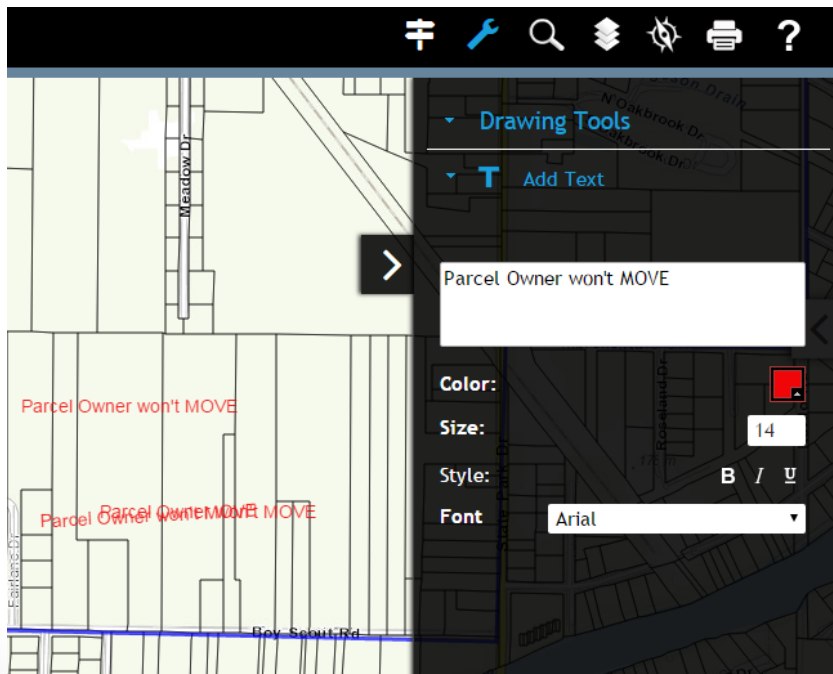
Labels created from Selected Parcels		« 1 of 10 »
T & L INVESTMENTS, LLC 3385 N EUCLID AVE BAY CITY, MI 48706-1636	MAAT, BARBARA & SCHROEDER, ARTHUR G 3507 KAWKAWLIN RIVER DR BAY CITY, MI 48706-1756	KACZYNSKI, RONALD F 3391 N EUCLID AVE BAY CITY, MI 48706-1636
MACLEOD, ROBERT J II & DEBRA M 3401 N EUCLID AVE BAY CITY, MI 48706-1636	MCGINNIS, PAUL J & CARA 3417 N EUCLID AVE BAY CITY, MI 48706-1636	WOLFE, JAMES C & SALLY J 3427 N EUCLID AVE BAY CITY, MI 48706-1636
JOHNROE, JEANNETTE J; JACKSON, 3429 N EUCLID AVE BAY CITY, MI 48706-1636	MILITELLO, BRIAN J 3435 N EUCLID AVE BAY CITY, MI 48706	WHEELER, AGNES, MARTHA & FRANCES 3441 N EUCLID AVE BAY CITY, MI 48706-1636
SMITH, ALBERT O JR 3445 N EUCLID AVE BAY CITY, MI 48706	SCOTT, DAN & KIMBERLY L 3455 N EUCLID AVE BAY CITY, MI 48706	STANLEY, DON 2435 WHEELER RD BAY CITY, MI 48706
HOFFMAN, ROBERT B 3051 W. RIVERVIEW DR BAY CITY, MI 48706	JABLONSKI, MILDRED J 3483 N EUCLID AVE BAY CITY, MI 48706-1636	GRTS, LLC 3804 E OLD PINE TRAIL MIDLAND, MI 48642
BRENTWOOD ESTATES MHP LLC 3278 BRENTWOOD DR BAY CITY, MI 48706	HOLM, ANNE L 108 ENGLEHARDT DR BAY CITY, MI 48706-2814	NATIONAL DJS LOGISTICS, LLC PO BOX 398 KAWKAWLIN, MI 48631-0398
ALARM MANAGEMENT PROPERTIES LLC 7241 FENTON RD GRAND BLANC, MI 48439-8961	SUMMERS, WESLEY E 3209 WHEELER RD BAY CITY, MI 48706	REINKE, DENNIS H & BONNIE J 134 DOLUD RD KAWKAWLIN, MI 48631-9771
TAYLOR, MADONNA L 3515 MILLER RD BAY CITY, MI 48706-1319	OGAJCAWNING (INDIAN) CHURCH 3217 N EUCLID AVE BAY CITY, MI 48706-1330	CUNNINGHAM, JEANNETTE M 3207 N EUCLID AVE BAY CITY, MI 48706-1330

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Example of Project

Insert Text for Map production using Add Text

- Add Text options will appear and once completed just select where the text goes
- Once on map can select again to edit text



Example of Project

Printing route on Fetch

The screenshot displays the FetchGIS printing interface. On the left, a map shows a residential area with a highlighted route in yellow and green. The map includes logos for Bay County and City, a scale bar (200m/600ft), and a disclaimer. The right panel, titled 'Print Options', contains the following elements:

- Title:** A text input field containing 'Map Title'.
- Subtitle:** An empty text input field.
- Paper Size:** Radio buttons for Letter (selected) and Legal.
- Paper Orientation:** Radio buttons for Landscape (selected) and Portrait.
- Note:** 'Note: you must set page orientation and size to match these settings in your browser's print settings. (This does not apply if using the "Generate PDF" button)'
- North Arrow:** A set of icons for different north arrow styles.
- Navigation Tools:** Icons for zoom in, zoom out, pan, and a hand icon for panning.
- Buttons:** 'Print', 'Generate PDF', and 'Cancel' buttons.

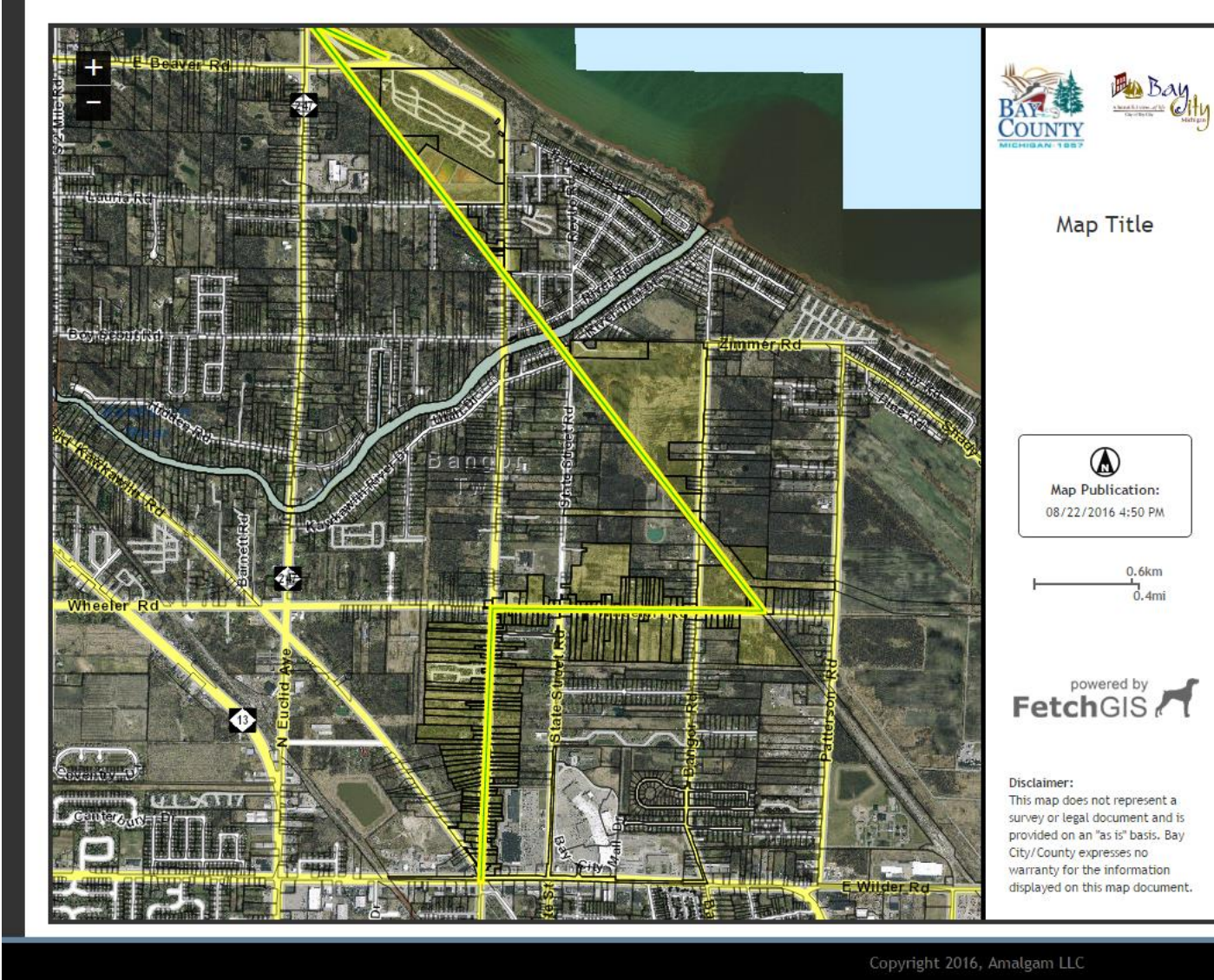
Annotations with arrows point to the following features:

- 'Add Title and Subtitle' points to the Title and Subtitle input fields.
- 'Adjust Map Area' points to the hand icon in the Navigation Tools.
- 'Generate PDF or Print Map' points to the Print and Generate PDF buttons.
- 'Date and time will be current' points to the 'Map Publication: 08/19/2016 3:30 PM' text.

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Example of Project

Finished PDF Map



Map Title

Map Publication:
08/22/2016 4:50 PM

0.6km
0.4mi

powered by
FetchGIS

Disclaimer:
This map does not represent a survey or legal document and is provided on an "as is" basis. Bay City/County expresses no warranty for the information displayed on this map document.