



## **MetroGIS Addressing Work Group Meeting Minutes**

Monday, February 23, 2015, 1pm-3 pm

Metro Counties Government Center, 2099 University Avenue, St Paul

**[Draft Minutes]**

### ***Attendees:***

Tanya Mayer, Metropolitan Council  
Joe Sapletal, Dakota County  
Pete Henschel, Carver County  
Gordy Chinander, Metropolitan Emergency Services Board  
Adam Iten, MN.IT Services  
John Hoshal, MnGeo  
Marcia Broman, Consultant to Metropolitan Emergency Services Board  
Mark Kotz, Metropolitan Council (work group chair)  
Dave Brandt, Washington County  
Joel Koepp, City of Roseville  
Matt Mclees, Scott County  
Matt Koukol, Ramsey County  
Jon Hoekenga, Metropolitan Council  
Nancy Read, Metropolitan Mosquito Control District

### ***Staff:***

Geoff Maas, MetroGIS Coordinator

### **Agenda Item 1) Welcome & Introductions**

Chair Kotz welcomed the members, and each participant introduced themselves.

### **Agenda Item 2) Approval of Agenda**

Meeting agenda unanimously approved by the group;

### **Agenda Item 3) A Review of our Vision – Where are we now?**

Chair Kotz gave a short presentation on the original vision of what was to be achieved by the Address Points Workgroup, the groups initial agreed upon definition of address points, revisited the initial vision of what was desired for the data and a brief overview of the current status of the address point dataset.

- Point location of every official address
- Data would come from the authoritative source
- Made up to date daily (eventually)
- Be available region-wide in a standardized format
- Freely available
- Sustainable solution (continual operation and availability)

Kotz reiterated the original roles of the various participants (city, county, regional and state)

**Cities** are generally in the role of the Official Address Authority

Having one “official” source for an address ensures it is authoritative, accurate and updates will be made in a timely manner;

**County** governments serve as partners with the cities, in some circumstances acting as Address Authority, but also to aggregate points from their cities and provide technical support/coordination as needed.

**Regional and State** partners serve in the role of coordination, aggregation and distribution with the Metropolitan Council funding the development and maintenance of the Address Point Editor Tool Application.

**Current Status:** At present, three (3) of the Metro Counties have assembled and published their address point data; these are Carver, Dakota and Ramsey counties. Region-side there are 70 cities with data, 31 organizations have contributed edits. Version 2.0 of the Address Point Editing Tool is in use in three contributing counties, with Version 3.0 of the tool currently being tested; to be available in mid-March. Additionally, the Metropolitan Council has been working with the DNR on improving the synchronization tool development, have been exploring the GDRS resources for its potential to be used to aggregate address point data.

#### **Agenda Item 4) Maximizing Appropriate Use of the Data – Communicating Completeness**

Jon Hoekenga, GIS Systems Administrator with the Metropolitan Council led the group through a brief presentation on measures of completeness exhibited by the address point data currently coming in from the city authorities and county aggregators.

He listed there was a strong need for being able to capture the number of individual units on each parcel, and conceded that this is challenging but remains a critical goal for the project.

As the currently available data from Carver, Dakota and Ramsey aggregation efforts reflects a mix of parcel centroids, quasi-complete and complete (authoritative) address points, there is the possibility to add a domain to the data to communicate how complete a given address point is.

Hoekenga presented an option of having a simple Yes/No option available, with:

Yes meaning: *“Address point represents a single address”*

No meaning *“Address point may represent multiple addresses within a parcel”*

These would help the data user make an informed decision about their use of the data points.

Hoekenga encouraged the group to comment on this proposed domain and its application and make suggestions.

N. Read: If we are going to carry a yes/no, wouldn't 'unknown' be the third option?

M. Kotz: The unknown category would likely act as a default; the main goal of this would be to letting the user know if the address point is an authoritative point and meets the full criteria and what that means.

M. Koukol: This would be better way to do it, most users are simply not going to go to the metadata and look up the condition of the point on a city by city basis.

J. Koepp: So this is essentially a kind of 'health' indicator of the point; we could have some kind of color code to represent the condition of the point, perhaps.

M. Kotz: We could potentially say something for the entire city, such as 'this city's data is in category 'x' with over 90% of its points authoritative, this city is in the next category with 80-90, and so on.

M. Koukol: Best we can do know at present is to indicate that 'yes, this city is actively adding good points to the system'.

M. Kotz: We can get to a point to where, they've hit a certain threshold of achievement. With the domains we Give the address authority, clear descriptions an dlet them pick the ones that represents the work they do.

N. Read: Are there other sources we can compare them to?

P. Henschel: We can, and do, compare them against the data we acquire from utilities.

A. Iten: For 911, we still can grab land line 911 data, while that is in decline we still could compare it against that.

M. Koukol: We geocode MSAG (Master Street Address Guide) addresses where there is supposed to be an address present and they will effectively geocode, but they might not have all the attributes.

### **Action Item:**

M. Kotz. We appear to have the need to **create some clear categories for cities to self-report on the condition of their data.**

J. Koepp: If possible, the number of choices (for these categories) needs to be small, but clear and meaningful.

N. Read: Would this [category] be an attribute on individual records?

M. Kotz: There is the potential that every point is a unique address and would carry the category designation.

M. Koukol: We would likely not be able to use the existing positional accuracy domain already available in the standard.

## **Agenda Item 5) Increasing Ease of Use – Opportunities for Domains**

J. Hoekenga: We'd like to get some additional feedback on the potential addition of new domains to make the data more usable.

Meeting the National address standard which specifies mixed case usage, at present, inputs to the existing data are not consistent or standardized, this makes analysis tasks difficult. Expanding the use of domains in the data would help streamline this and make the data more useful to the end user.

For example, in our current [MetroGIS] standard, we have a simple Yes/No for the 'Mail able' category, but we receive a range of inputs such as No, NO, Unknown, UNKNOWN, y, Y, Yes, YES, YEST, and so on. This range of variations makes it difficult to so efficient analysis of the data.

We should explore creating domains to make data entry easy, comply with our standard. Some of these criteria reference the national standard and some don't, there are around 15 fields that would benefit from us defining and using a domain.

M Kotz: Regarding domains, some domains are implied, but not specifically developed in our standard or the national standard. Up to now, we have not had any formal validation process, so updating the standard with domains would make things work better.

### **Action Item:**

*We should go through the list of attributes in our existing standard and compile a list of the fields with would benefit from an established domain and values to populate that domain. Also we should be working through the issues/identifying a best practice for all caps vs. mixed case (USPS Standard and federal standard do not clearly align on this issue).*

M. Koukol: With the Metro Regional Centerline Collaborative street centerline project, we have a domain set for street types and it is certainly possible to automate into all caps if data is put in originally in mixed case.

N. Read: Is there an acceptable list of municipal names that is being used?

M. Kotz: We are presently using the ID number and lookup table for city name.

D. Brandt: One of our challenges is that our tax system software is automatically populating the city names, we [in GIS] can't control that input.

N. Read: At present the township names are posing a real challenge to work with.

M. Kotz: The unique ID number solution to represent the city or township name could be generated at the regional aggregator level (counties or cities may want an official way to enter the information)

*<<< brief group discussion of variations of city names, including official name being City of Roseville or just Roseville, spelling out "St. Louis Park" vs. "Saint Louis Park", St. Paul vs. Saint Paul, etc. >>>*

J. Hoshal: the Secretary of State's office should have the record of the official names of each city.

### Action Item:

Develop a solution for automating the correct city/township names and incorporating approved domains for street types (suffixes), including a look at how applicable federal standards handle street types.

### Agenda Item 6) Updates to Data Specifications

M. Kotz: We have not visited the data specifications in some time and I would like to remove wording that doesn't fit with current progress and what we are working on including wording about the draft national standard. I proposed removing everything that has been struck-through in red:

## MetroGIS Address Points Database Specifications

Latest version approved by MetroGIS Address Workgroup: ~~06/10/2010~~ 2/23/15

### Address Points Database Standards

~~In February 2010 a new draft of the national standard was published and submitted to the Federal Geographic Data Committee as a proposed national standard.~~

~~<http://www.unisa.org/about/initiatives/addressstandard>. The FGDC has announced a formal public review period for this standard. The intention of the MetroGIS Address Workgroup is to review these specifications for possible modifications when and if a final national address data standard is approved.~~

~~See MetroGIS comments on the draft national standard~~

~~[http://www.mngeo.state.mn.us/committee/standards/address/address\\_standard.html](http://www.mngeo.state.mn.us/committee/standards/address/address_standard.html)~~

~~The database format for the MetroGIS Address Points Dataset is derived primarily from the Content portion of the United States Thoroughfare, Landmark, and Postal Address Data Standard. Some additional data elements have been added to satisfy data needs at the local level. ~~November 2005 published draft national standard and the February 2010 published draft national standard, as well as the combined thought and experience of the MetroGIS Address Workgroup. In 2006 the Workgroup conducted a data pilot project to test a preliminary set of data specifications with real data in cities and counties. The results of that pilot suggested some modest changes to the data specifications, mainly with optional items, and also provided some comments on suggested changes and clarifications to the draft national standard. The specifications were modified again after the publishing of the 2010 draft national standard.~~~~

~~At this time, the MetroGIS specifications focus on the ability to encode address point data into a fairly simple, flat database file format (e.g. shapefile). An associated XML schema is under development. See Appendix B for a draft XML formatting template.~~

G. Chinander: Regarding the use of XML, NENA is pushing using XML for NextGen911.

M. Kotz: We can leave the XML as an appendix until that is formally decided by NENA; many users at present aren't using it in the way we anticipated it would be used.

**Latitude: Numeric, width = double**

2.4.2.4 Address Longitude: *The latitude of the address location, in decimal degrees. Example: 33.77603207*

~~What datum is assumed for the lat/lon? NAD83 or WGS84? This is yet to be determined.~~

~~Note: USNG coordinates will be considered for inclusion in a later version of these specifications.~~

M. Kotz: Also, I am proposing we clean up the language about latitude/longitude and datum and I am proposing we can remove the USNG coordinate statement as well as it is, at present, not one of our considerations.

G. Chinander: Regarding coordinate system, NENA recommends the use of WGS84 (World Geodetic System 1984)

<< *Group assent that WGS84 is a suitable solution*>>

J. Sapletal: I wouldn't dismiss this; we're [Dakota County GIS] working pretty well with numerous partners with the USNG material.

M. Kotz: I don't disagree; we can revisit it and add in USNG coordinates in a later version of the specifications.

G. Chinander: There are a number of extra fields from NENA data model as well, these include:

- Country
- Emergency Service Number
- MSAG Community Name
- Postal Community Name
- Also, our field widths will need to meet those in NENA (when it is finalized)

D. Brandt: I don't want to overwhelm our municipalities with too many attributes.

M. Koukol: If these [NENA features] are available in code form, we should look to keep in code form in our address data.

N. Read: How do the postal community attributes work? I would assume that the US Postal Service would have the data? And are they using the USPS place name or a [numerical] code?

M. Kotz: All these are good comments, once NENA standard is finalized and available we can revisit ours to align it.

**Action Items:**

- **Update Existing Address Standard to include WGS84.**
- **Determine if USPS maintains a type of numerical code for representing postal communities.**

### **Agenda Item 7) Help with Meeting the Specifications – Do We Want a Validation Tool?**

J. Hoekenga: At present, with the data coming in, we [Metropolitan Council] have been gathering the data and checking it manually. However, we'd like to develop a Python script to compare against established domains. We have a validation tool like this that we are using for parcels now and we're interested in something like it for address points.

M. Kotz: It might be more efficient, we could avoid numerous rechecking if cities or county-aggregators had something like this to run.

J. Hoekenga: Our question is to the Counties, if we created something like this, would you be willing to make use of it?

J. Sapletal: I'd recommend you check with Todd Lusk in Dakota County, he might be already doing this and may have already created something

#### **Action Item:**

**J. Hoekenga to contact T. Lusk (Dakota Co.) and determine if they have a validation tool in production or under development that could be proto-typed or expanded.**

### **Agenda Item 8) Address Point Aggregation Update**

J. Hoekenga: We had a separate meeting focused specifically on the aggregation of the points in 2014, working to agree to a way to bring everything together, looking at the readiness and development of the GDRS and the ability to aggregate up to the Commons eventually. We know the tools are being developed at the state, and if these are the way we want to go (using state tools and state conversion) go beyond the metro region, cooperative aggregation strategy from metro usable to the state as well.

Our next step will be to re-convene the aggregation work group and make some determination of the best way to move forward.

#### **Action Item:**

**When needed, re-convene aggregation group to decide on a way forward, if a mid-term or intermediate step is needed before full commitment to the GDRS is needed.**

A. Iten: If this is working well for metro so far, it would probably work well for Greater Minnesota as well. We will need to perform some kind of high-level quality assurance testing when the [locally-created address point] data comes in, and then another quality-assurance check on it so it is validated before it reaches the 911 systems that will use it.

M. Kotz: Is there at present any automating of data occurring at MnGeo?

J. Hoshal: Not that I'm aware of, none at present; this may come to the fore with the road centerline work eventually.

J. Sapletal: One last point with the address data: Open Addresses (<http://openaddresses.io/>) is pulling the data from our sites and aggregating it nationally and internationally;

### **Agenda Item 9) Web Editing Tool Version 3.0 Update and Demo**

T. Mayer: The Metropolitan Council has been managing the contract for the third version of the Address Editor tool; we had collected the 'wish list' of desired attributes from those using Version 2.0. The project team included the following participants:

#### **Dakota County:**

- Joe Sapletal
- Todd Lusk

#### **North Point Geographic Solutions:**

- Jesse Adams
- Caroline Adams
- Kris Johnson

#### **Carver County:**

- Nate Christ
- Pete Henschel

#### **Hennepin County:**

- Eric Hanson
- Doug Breeden
- Ann Houghton

#### **MESB**

#### **MetroGIS**

- Tanya Mayer

This team decided upon seven (7) functional requirements for the Version 3.0 of the tool, these included:

1. Support Address-Change report building
2. Add functionality to allow the Add New Points tool to stay active for all multiple point add situations
3. Add functionality to allow for the ability to page through item attributes of multiple selected points
4. Modify user interface with a larger comments field and make scrollable or pop-out window
5. Support checks for duplicate addresses
6. Add a calculate 'hypothetical address' tool
7. Add functionality to allow for proposed address point selection, map display and report building

Joe Sapletal (Dakota County) gave a PowerPoint presentation detailing the look, feel and function of each of the newly added seven (7) requirements added to Version 3.0 of the Editor Tool. This presentation is available as an appendix to these notes.

T. Mayer: Version 3.0 still testing at the moment. Staff at both Hennepin County and Carver County Hen and Carver have tested it, we are working to resolve all final issues and the Metropolitan Council will be



closing out the contract with North Point Geographics in mid-March (2015), we anticipate being able to make the Version 3.0 editor available then.

M. Koukol: Do they anticipate problems with ArcMap 10.3?

J. Sapletal: We have tested it already, seems to be working fine.

T. Mayer: We did encounter an issue with Internet Explorer 11, but North Point was able to resolve that pretty quickly.

J. Sapletal: Also we know a number of users will be transitioning from http to https; we haven't encountered any issues with that change either.

A. Iten: Can the State of Minnesota get access to this tool?

T. Mayer: Yes, our contract is set up so all governments in Minnesota can have access to this tool, however, North Point Geographics retains the right to sell the tool outside of Minnesota.

J. Sapletal: We will want to start thinking how to get things to be mobile friendly as well; the City of Burnsville is out verifying addresses using mobile devices, we (Dakota County) needed to set up a separate interest for their collection.

N. Read: One of our earlier points with the MetroGIS geocoder was that we'd eventually run it on regional address points, currently it is still running on parcel [centroid] points, and it is still getting around 1,000 hits a week, I am wondering what the group's thoughts are on that? I know the airport [Metropolitan Airports Commission] is thinking of using it, it remains a good regional resource, is anyone else running into the need for a free regional geocoder?

M. Koukol: Certainly possible to add it in as part of a higher-level compositor.

N. Read: Related to that as well, the TLG (NCompass) data has kind of fallen by the wayside of late, I know that contract is ending this year, but we need a solution like it in our geocoder.

M. Kotz: At the Council, we are using parcel points internally plus whatever we have available, we had to make one specifically for our Metro Transit trip planner application, and we tuned it specifically for transit landmarks and transit users.

J. Sapletal: At Dakota County, we run through nineteen (19) of our own data layers of Dakota layer and then against the NCompass data at the end;

J. Hoshal: At the state as well, we are using the NCompass data along with parcel points, we are using an Arc engine for that in a nine (9) tier system, with several databases in use.

## **Agenda Item 10) Review Action Items**

### **Action Item:**

*Create some clear categories for cities to self-report on the condition of their data.*

### **Action Item:**

*We should go through the list of attributes in our existing standard and compile a list of the fields with would benefit from an established domain and values to populate that domain. Also we should be working through the issues/identifying a best practice for all caps vs. mixed case (USPS Standard and federal standard do not clearly align on this issue).*

### **Action Item:**

*Develop a solution for automating the correct city/township names and incorporating approved domains for street types (suffixes), including a look at how applicable federal standards handle street types.*

### **Action Items:**

- *Update Existing Address Standard to include WGS84 (approved coordinate system)*
- *Confirm and perform suggested text edits to existing standard as advanced by M. Kotz (pp. 5-6)*
- *Determine if USPS maintains a type of numerical code for representing postal communities.*

### **Action Item:**

*J. Hoekenga to contact T. Lusk (Dakota Co.) and determine if they have a validation tool in production or under development that could be proto-typed or expanded.*

### **Action Item:**

*When needed, re-convene aggregation group to decide on a way forward, if a mid-term or intermediate aggregation step is needed before full commitment to the GDRS is needed.*

## **Agenda Item 11) Adjournment**

*Chair Kotz adjourned the meeting at 2:15 pm*



# **MetroGIS Address Editor Version 3 What's New?**

**Joe Sapletal, GISP – Dakota County**

**Tanya Mayer – Metropolitan Council**

**MetroGIS Address Workgroup - February 2015**

# Project Team:

## North Point Geographic Solutions:

- Jesse Adams
- Caroline Adams
- Kris Johnson

## Carver County:

- Nate Christ
- Pete Henschel

## Dakota County

- Joe Sapletal
- Todd Lusk

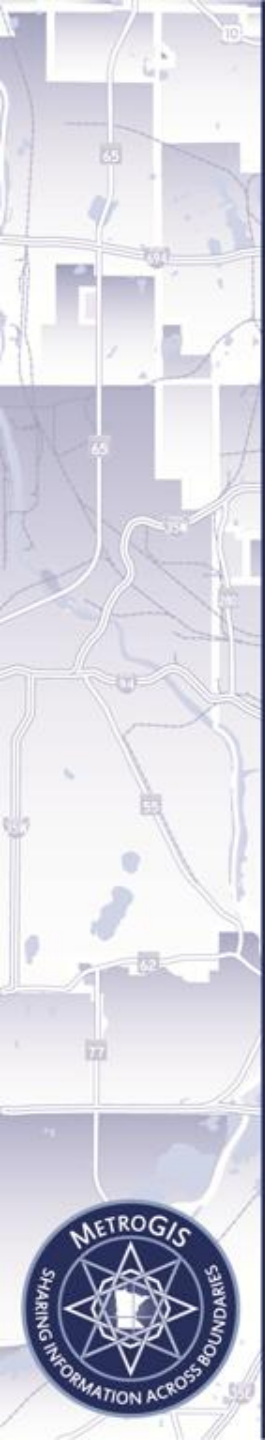
## Hennepin County:

- Eric Hanson
- Doug Breeden
- Ann Houghton

## MESB

## MetroGIS

- Tanya Mayer



# 7 FUNCTIONAL REQUIREMENTS

1. Support Address-Change report building
2. Add functionality to allow the Add New Points tool to stay active for all multiple point add situations
3. Add functionality to allow for the ability to page through item attributes of multiple selected points
4. Modify user interface with a larger comments field and make scrollable or pop-out window
5. Support checks for duplicate addresses
6. Add a calculate 'hypothetical address' tool
7. Add functionality to allow for proposed address point selection, map display and report building



# 1. SUPPORT ADDRESS-CHANGE REPORT BUILDING

## **Solution:**

Add a report generator feature in the application that would allow the addressing authority the ability to run a report after the user finished entering address information or a selected set of features. The report output would include selected addresses and attributes, as well as a map of the specified area.

1. Report template that can be printed in multiple formats.
2. Configurable list of attributes for the report.
3. Dynamic labels selected in the application would be printed in the map on the report.
4. Ability to use their own logo to include in the pdf report.
5. Ability to store reports in the Address Editor Application via a web link.
6. Ability to print one or multiple address points on a report.



# Reporting

The screenshot displays the 'City of Roseville Address Point Editor Application' interface. On the left, there is a sidebar with 'Address Point Information' and 'Address Points' sections. The 'Address Points' section shows details for a specific point: Address Number 1234, Street Name, Source, Edit Organization City of Roseville, Municipal Name, Updated Date 11/30/2014, Comments 'This is an address I changed on 1/13/2015.', Address ID, and Address Status Proposed. A 'Submit Issue' button is visible on the right side of the map area. A 'Generate a report' dialog box is open in the center, offering options to 'Report on Selected Features' (selected) or 'Report by Date'. It indicates '6 features selected' and provides 'Report Format' options for PDF (selected) and CSV. A 'Comments' field and a 'GO' button are also present in the dialog. The background map shows a street grid with red dots representing address points. The browser address bar shows 'http://maps2.northpointgis.com/metrogis/index.aspx'. The footer contains version information (3.0), UTM coordinates, and contact information for Jesse Adams.



# Reporting by Date Range

The screenshot displays the 'City of Roseville Address Point Editor Application' interface. The browser address bar shows the URL <http://maps2.northpointgis.com/metrogis/index.aspx>. The application title is 'City of Roseville Address Point Editor Application' with a 'Logout' button in the top right corner. The main map area shows a street grid with red dots representing address points. A 'Generate a report' dialog box is open in the center, with a blue arrow pointing to the 'End Date' field. The dialog box contains the following information:

- Report on Selected Features (radio button)
- Report by Date** (radio button, selected)
- Start Date: [dropdown menu]
- End Date: 1/26/2015
- 6 features selected.
- Report Format:**
  - PDF (radio button, selected)
  - CSV (radio button)
- Comments:** [text input field]
- GO button

The left sidebar contains 'Address Point Information' and 'Legend' tabs. Under 'Address Points', the following fields are visible:

- Address Number: 1234
- Street Name: [empty]
- Source: [empty]
- Edit Organization: City of Roseville
- Municipal Name: [empty]
- Updated Date: 11/30/2014
- Comments: This is an address I changed on 1/13/2015.
- Address ID: [empty]
- Address Status: Proposed

At the bottom of the sidebar, it shows '( 1 of 6 )' with navigation arrows. The bottom status bar includes the version 'Version: 3.0', coordinates 'NAD83 UTM Zone 15N, X: 483767.051972, Y: 4985619.553832', and contact information for Jesse Adams: 'Jesse Adams, 218-720-6747, [jesse@northpointais.com](mailto:jesse@northpointais.com), <http://www.northpointais.com>'. The Esri logo and 'Metropolitan Council | NPGS' are also present in the bottom right corner.





# Reporting by Date Range

The screenshot displays the 'City of Roseville Address Point Editor Application' interface. The browser address bar shows the URL <http://maps2.northpointgis.com/metrogis/index.aspx>. The application title is 'City of Roseville Address Point Editor Application' with a 'Logout' button in the top right. The interface includes a toolbar with various editing tools and a 'Current Editing Status: Not Editing' indicator. A sidebar on the left shows 'Address Point Information' and 'Legend' tabs, with the text 'No features selected'. The main map area displays a street grid with several address points marked as red dots and yellow circles. A 'Generate a report' dialog box is open in the center, featuring the following options and fields:

- Radio buttons for 'Report on Selected Features' (unselected) and 'Report by Date' (selected).
- Start Date:  End Date:
- Text: 46 features selected with the current date range.
- Report Format: Radio buttons for 'PDF' (selected) and 'CSV'.
- Comments:
- GO button

The dialog box also features a blue arrow pointing to the 'GO' button. The map includes a scale bar (0, 300, 600ft) and a 'Metropolitan Council | NPGS' logo. The bottom status bar shows 'Version: 3.0', 'NAD83 UTM Zone 15N, X: 484004.500114, Y: 4985729.917053', and contact information for Jesse Adams: 'Jesse Adams, 218-720-6747, [jesse@northpointais.com](mailto:jesse@northpointais.com), <http://www.northpointais.com>'. A 'Submit Issue' button is visible on the right side of the map.



# Reporting by Date Range

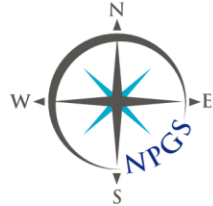
The screenshot displays the 'City of Roseville Address Point Editor Application' interface. The browser address bar shows 'http://maps2.northpointgis.com/metrogis/index.aspx'. The application title bar includes 'File Edit View Favorites Tools Help' and a 'Logout' button. The main map area shows a street grid with labels like 'Silverwood Park', 'Lake Johanna', and 'Falcon Heights'. A 'Generate a report' dialog box is open, containing the following information:

- Report on Selected Features (unselected) / Report by Date (selected)
- Start Date: 1/1/2015 / End Date: 1/26/2015
- 46 features selected with the current date range.
- Report Format: PDF (selected) / CSV
- Comments: (empty text box)
- GO button
- Download the Report link

At the bottom of the application, the following text is visible: 'Version: 3.0', 'NAD83 UTM Zone 15N, X: 481234.518738, Y: 4988997.341912', 'Jesse Adams, 218-720-6747, jesse@northpointais.com', and 'http://www.northpointais.com'. The ESRI logo and 'Metropolitan Council | NPGS' are also present in the bottom right corner.



# Report Updates



## METROGIS - Proposed Address Report

### ADDRESSING DIVISION

5200 85TH AVENUE NORTH

MN 55443

PHONE (763) 424 - 8000

FAX (763) 493 - 8391

REPORT DATE: 01/26/2015

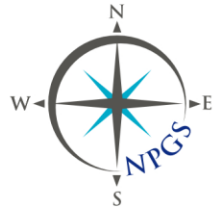
COMMENTS:

DATE RANGE: 1/1/2015 - 1/26/2015

OLD ADDRESS	NEW ADDRESS	LAST UPDATED	ADDRESS ID	ADDRESS STATUS	COMMENTS
121 B STREET, <blank>, MN <blank>	111 D STREET, <blank>, MN <blank>	01/15/2015	<blank>	Active	This is a test point from 1/15/15.
121 B STREET, <blank>, MN <blank>	112 D STREET, <blank>, MN <blank>	01/15/2015	<blank>	Active	This is a test point from 1/15/15.
<blank> TODD STREET, <blank>, MN <blank>	113 B STREET, <blank>, MN <blank>	01/15/2015	<blank>	Active	This is a test point from 1/15/15.
<blank> TODD STREET, <blank>, MN <blank>	114 B STREET, <blank>, MN <blank>	01/15/2015	<blank>	Active	This is a test point from 1/15/15.
<blank> TODD STREET, <blank>, MN <blank>	115 B STREET, <blank>, MN <blank>	01/15/2015	<blank>	Active	This is a test point from 1/15/15.
<blank> TODD STREET, <blank>, MN <blank>	116 B STREET, <blank>, MN <blank>	01/15/2015	<blank>	Active	This is a test point from 1/15/15.
<blank> TODD STREET, <blank>, MN <blank>	117 B STREET, <blank>, MN <blank>	01/15/2015	<blank>	Active	This is a test point from 1/15/15.



# Report Deletes



## METROGIS - Proposed Address Report

ADDRESSING DIVISION

5200 85TH AVENUE NORTH

MN 55443

PHONE (763) 424 - 8000

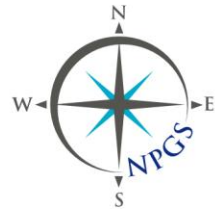
FAX (763) 493 - 8391

REPORT DATE: 01/26/2015

OLD ADDRESS	NEW ADDRESS	LAST UPDATED	ADDRESS ID	ADDRESS STATUS	COMMENTS
1777 County Road B2, <blank>, MN <blank>	Not applicable. Address deleted.	01/19/2015		Address deleted.	Information is not retrievable.
1777 County Road B2, <blank>, MN <blank>	Not applicable. Address deleted.	01/19/2015		Address deleted.	Information is not retrievable.
1777 County Road B2, <blank>, MN <blank>	Not applicable. Address deleted.	01/19/2015		Address deleted.	Information is not retrievable.
1777 County Road B2, <blank>, MN <blank>	Not applicable. Address deleted.	01/19/2015		Address deleted.	Information is not retrievable.
1777 County Road B2, <blank>, MN <blank>	Not applicable. Address deleted.	01/19/2015		Address deleted.	Information is not retrievable.
1777 County Road B2, <blank>, MN <blank>	Not applicable. Address deleted.	01/19/2015		Address deleted.	Information is not retrievable.
1777 County Road B2, <blank>, MN <blank>	Not applicable. Address deleted.	01/19/2015		Address deleted.	Information is not retrievable.



# Report Map



## METROGIS - Proposed Address Report

ADDRESSING DIVISION

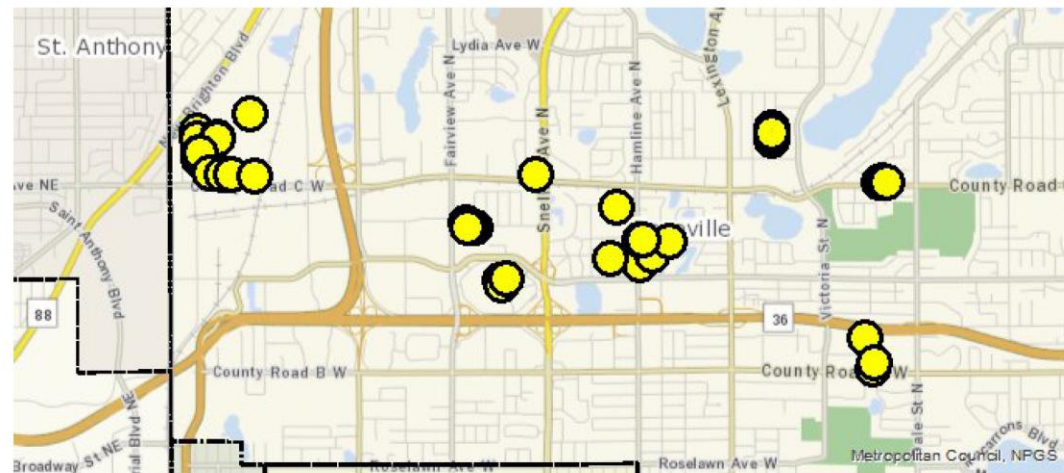
5200 85TH AVENUE NORTH

MN 55443

PHONE (763) 424 - 8000

FAX (763) 493 - 8391

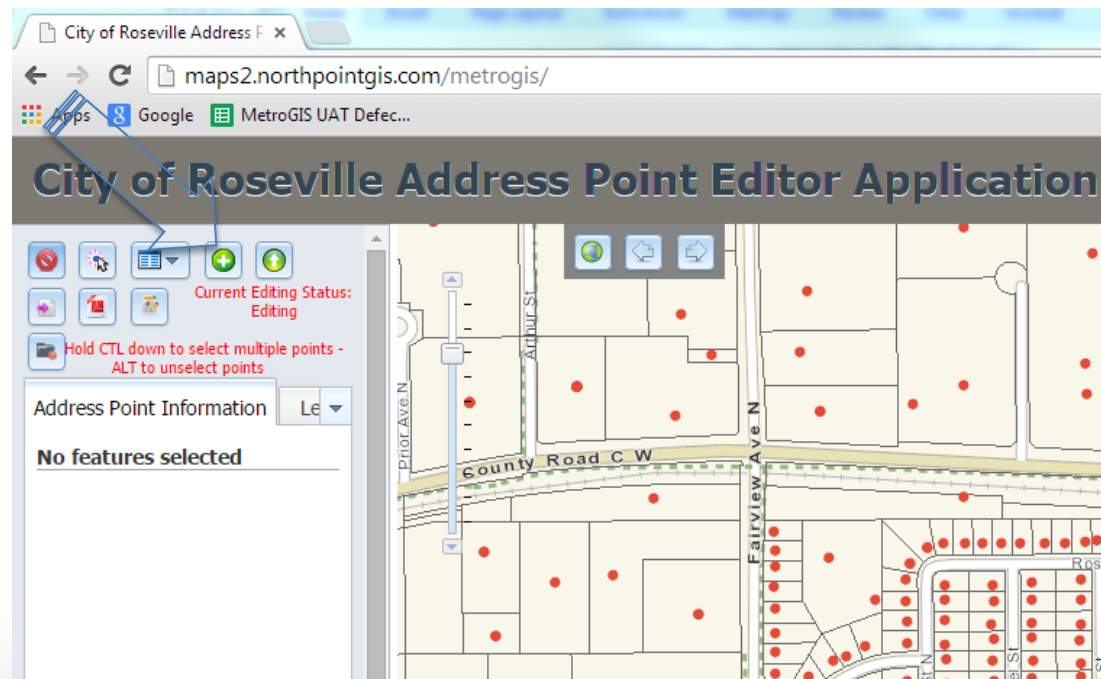
REPORT DATE: 01/26/2015



## 2. ADD FUNCTIONALITY TO ALLOW THE ADD NEW POINTS TOOL TO STAY ACTIVE FOR ALL MULTIPLE POINT ADD SITUATIONS

### Solution:

Modify existing Add Point Tool + to stay active until it's turned off to support this functionality.



### 3. ADD FUNCTIONALITY TO ALLOW FOR THE ABILITY TO PAGE THROUGH ITEM ATTRIBUTES OF MULTIPLE SELECTED POINTS

#### **Solution:**

The Consultant will create a tool to the specifications of MetroGIS, which allows for selecting multiple points and showing their attributes individually for editing.



# Attributes of Multiple Points

The screenshot displays the 'City of Roseville Address Point Editor Application' interface. The browser address bar shows 'maps2.northpointgis.com/metrogis/'. The application title is 'City of Roseville Address Point Editor Application' with a 'Logout' button in the top right.

**Address Point Information Panel:**

- Current Editing Status: Not Editing
- Hold CTL down to select multiple points - ALT to unselect points
- Address Point Information: Le
- Address Points
- Address: City of Roseville
- Address Number: 1810
- Street Name: Oakcrest
- Source: Community Developm
- Edit Organization: City of Roseville
- Municipal Name: Roseville
- Updated Date:
- Comments:
- Address ID:
- Address Status: A

Navigation controls: (3 of 5) with left and right arrow buttons.

**Map:** A street map showing a grid of streets including Rose Pl, Beacon St, Wheeler St, Herschel St, Aldine St, Charlotte St, Oakcrest Ave, Fairview Ave N, American St, and County Road B2 W. Red dots represent address points. One point is highlighted in yellow. A scale bar indicates 0, 150, and 300 feet.

**Footer:** Version: 3.0, NAD83 UTM Zone 15N, X: 485824.766241, Y: 4985103.936668, Metropolitan Council | NPGS, esri, Jesse Adams, 218-720-6747, [jesse@northpointgis.com](mailto:jesse@northpointgis.com), <http://www.northpointgis.com>





## 4. MODIFY USER INTERFACE WITH A LARGER COMMENTS FIELD AND MAKE SCROLLABLE OR A POP-OUT WINDOW

### **Solution:**

Modify the application user interface for ease of viewing the entire comments field content. Possibly extend functionality to other fields.

1. Scrolling combo box when a user clicks in the field.
2. Config. file switch/option on any field that a user would wish to have a larger box or pop-up.



# Expanding Textboxes

The screenshot displays the 'City of Roseville Address Point Editor Application' in a web browser. The browser's address bar shows the URL <http://maps2.northpointgis.com/metrogis/index.aspx>. The application interface includes a menu bar (File, Edit, View, Favorites, Tools, Help) and a toolbar with various editing tools. A 'Current Editing Status: Editing' indicator is present. The main map area shows a street named 'seville' and several red address points. A yellow point is currently selected. A 'Submit Issue' button is located on the right side of the map. The left sidebar contains a form for 'Address Point Information' with the following fields:

- Address Number: 2220
- Street Name: Midland Grove
- Source: Community Development
- Edit Organization: City of Roseville
- Municipal Name: [dropdown]
- Updated Date: [dropdown]
- Comments: How much longer is Joe going to talk about this address editor thing. On and on he keeps on going!
- Address ID: [input]
- Address Status: [dropdown]

At the bottom of the sidebar are 'Delete' and 'Save' buttons, along with a status indicator '1 of 36' and navigation arrows. The bottom of the application window displays the version '3.0', UTM coordinates, and contact information for Jesse Adams.

Version: 3.0  
NAD83 UTM Zone 15N, X: 485240.367362, Y: 4983974.173122  
Jesse Adams, 218-720-6747, [jesse@northpointais.com](mailto:jesse@northpointais.com)  
<http://www.northpointais.com>

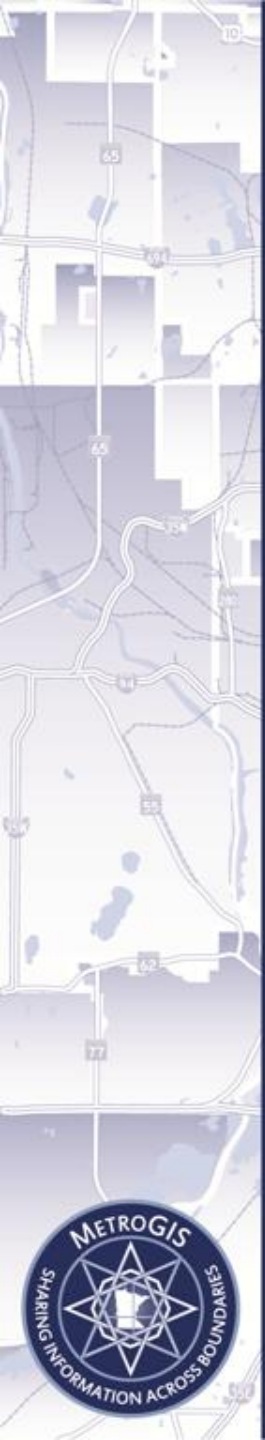


## 5. SUPPORT CHECKS FOR DUPLICATE ADDRESSES

### **Solution:**

The Consultant will coordinate with MetroGIS to develop a workflow for this functionality that will fit the needs of the application.

1. Upon save, verify recently added points against existing points and show a pop-up warning that the address is a duplicate, with the option to save, cancel or zoom



# Duplicates Duplicates

The screenshot displays the 'City of Roseville Address Point Editor Application' in a web browser. The browser's address bar shows the URL <http://maps2.northpointgis.com/metrogis/index.aspx>. The application interface includes a menu bar (File, Edit, View, Favorites, Tools, Help) and a toolbar with various editing tools. The main map area shows a street map of Roseville with several red dots representing address points. A dialog box titled 'Duplicated Points' is open, displaying the message: 'The Address is Duplicated. Do you want to:'. Below the message are three buttons: 'Save', 'Cancel', and 'ZoomTo'. The 'Save' button is highlighted. The application also features a sidebar with 'Address Point Information' and 'Legend' tabs, and a 'Current Editing Status: Editing' indicator. The bottom of the application shows the version (3.0), UTM coordinates, and contact information for Jesse Adams.

City of Roseville Address Point Editor Application

Logout

Current Editing Status: Editing

\*\*\* Hold CTL down to select multiple points - ALT to unselect points

Address Point Information Legend Layer

**Address Points**

Address Number: 2230

Street Name: Midland Grove

Source: Community Development

Edit: City of Roseville

Organization: City of Roseville

Municipal Name: [Dropdown]

Updated Date: 1/26/2015

Comments:

Address ID:

Address Status: [Dropdown]

Delete Save 1 of 36 [Navigation Buttons]

Duplicated Points

The Address is Duplicated. Do you want to: Save Cancel ZoomTo

Metropolitan Council Basemap

Submit Issue

Version: 3.0

NAD83 UTM Zone 15N, X: 485411.764788, Y: 4983968.738570

Metropolitan Council | NPGS POWERED BY

Jesse Adams, 218-720-6747, [jesse@northpointais.com](mailto:jesse@northpointais.com)  
<http://www.northpointais.com>



# Zoom to Duplicates

The screenshot shows a web browser window with the URL <http://maps2.northpointgis.com/metrogis/index.aspx>. The page title is "City of Roseville Address Point Editor Application". The browser's address bar shows "City of Roseville Address Po...".

The application interface includes a menu bar (File, Edit, View, Favorites, Tools, Help) and a toolbar with various editing tools. A "Current Editing Status: Editing" indicator is present. The main map area displays a street map with several red dots representing address points. A yellow dot is highlighted, and a dialog box titled "Duplicated Points" is open over it. The dialog box contains the text: "The Address is Duplicated. Do you want to:" followed by three buttons: "Save", "Cancel", and "ZoomTo".

On the left side, there is a form for "Address Point Information" with the following fields:

- Address Number: 2230
- Street Name: Midland Grove
- Source: Community Development
- Edit Organization: City of Roseville
- Municipal Name: [dropdown]
- Updated Date: 1/26/2015
- Comments: [text area]
- Address ID: [text area]
- Address Status: [dropdown]

At the bottom of the form, there are buttons for "Delete", "Save", and "1 of 36" with navigation arrows.

The map area includes a scale bar (0 to 50 feet) and a "Submit Issue" button on the right. The footer of the application displays "Version: 3.0", "NAD83 UTM Zone 15N, X: 485294.712887, Y: 4983959.123592", and contact information for Jesse Adams: "Jesse Adams, 218-720-6747, [jesse@northpointais.com](mailto:jesse@northpointais.com), <http://www.northpointais.com>".



## 6. ADD A CALCULATE 'HYPOTHETICAL ADDRESS' TOOL

### **Business Need:**

Allow the application to calculate and return the hypothetical address of a new point with a tool that can be configured for each address authority. Each organization would have the ability to input its own algorithm in the configuration file to drive the tool.

### **Solution:**

The Consultant will set up the config. file to allow the ability for MetroGIS to calculate and return a point for a hypothetical address, based on a sample tool(s) from MetroGIS.

1. Allow the definition of a formula and grid in the back-end, for each address authority
2. Show calculated hypothetical address on map with new added point



# Theoretical Address

City of Roseville Address Point Editor Application

Current Editing Status: Editing

\*\*\* Hold CTL down to select multiple points - ALT to unselect points

Address Point Information Legend Layer

**Address Points**

Address Number

Street Name

Source

Edit

Organization

Municipal Name

Updated Date

Comments

Address ID

Address

Status

Delete Save

The hypothetical address is 3108066  
[Add hypothetical address](#)

Metropolitan Council Basemap

Southwind Ln

Logan Ave W

Langer Cir

0 50 100ft

Metropolitan Council | NPGS

Version: 3.0 NAD83 UTM Zone 15N, X: 492453.664949, Y: 4972709.957730

Jesse Adams, 218-720-6747, [jesse@northpointais.com](mailto:jesse@northpointais.com)  
<http://www.northpointais.com>

Submit Issue

POWERED BY esri





## 7. ADD FUNCTIONALITY TO ALLOW FOR PROPOSED ADDRESS POINT SELECTION, MAP DISPLAY AND REPORT BUILDING

### **Solution:**

1. All preliminary points not modified in 1 (or X) month(s) are reported when application starts with the option to print a report of those points at that time.
2. Create tool to generate a proposed address points report.





# Proposed Address Report

City of Roseville Address Point Editor Application

There is/are 6 address(es) with proposed status older than 30 days. Would you like to run a proposed address report?

Generate Report

Version: 3.0

Jesse Adams, 218-720-6747, [jesse@northpointais.com](mailto:jesse@northpointais.com)  
<http://www.northpointais.com>

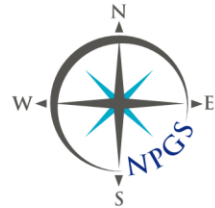


# Proposed Address Report

The screenshot displays the 'City of Roseville Address Point Editor Application' interface. The browser address bar shows 'http://maps2.northpointgis.com/metrogis/index.aspx'. The application title is 'City of Roseville Address Point Editor Application' with a 'Logout' button in the top right. The interface includes a menu bar (File, Edit, View, Favorites, Tools, Help) and a toolbar with various editing tools. A sidebar on the left contains 'Address Point Information' and 'Legend' tabs, with a 'Current Editing Status: Not Editing' indicator. Below this is a form for 'Address Points' with fields for Address Number (1234), Street Name, Source, Edit Organization (City of Roseville), Municipal Name, Updated Date (11/30/2014), Comments (This is an address I changed), Address ID, Address Status (Proposed), and navigation controls. The main area is a map showing various streets and parks, with a 'Metropolitan Council Basemap' dropdown. A dialog box titled 'Create Proposed Address Report' is open, asking 'There are 6 addresses with proposed status older than 30 days. Would you like to run a proposed address report?' with buttons for 'Report on Selected' and 'Report by Date', and a 'Comments:' field. The bottom of the application shows 'Version: 3.0', 'NAD83 UTM Zone 15N, X: 481614.474326, Y: 4988212.310615', and contact information for Jesse Adams: 'Jesse Adams, 218-720-6747, jesse@northpointais.com, http://www.northpointais.com'. A 'Submit Issue' button is visible on the right side of the map area. The background of the slide features a map of Roseville, MN, and the METROGIS logo with the tagline 'SHARING INFORMATION ACROSS BOUNDARIES'.



# Proposed Address Report



## METROGIS - Proposed Address Report

### ADDRESSING DIVISION

5200 85TH AVENUE NORTH

MN 55443

PHONE (763) 424 - 8000

FAX (763) 493 - 8391

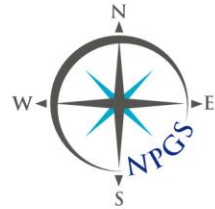
REPORT DATE: 01/26/2015

### COMMENTS:

OLD ADDRESS	NEW ADDRESS	LAST UPDATED	ADDRESS ID	ADDRESS STATUS	COMMENTS
<blank>	1234 <blank>, <blank>, MN <blank>	11/30/2014	<blank>	Active	This is an address I changed on 1/13/2015.
<blank>	1112 <blank>, <blank>, MN <blank>	11/30/2014	<blank>	Active	This address was changed from 1111 per a letter from the President of the United States of America.
<blank>	1111 <blank>, <blank>, MN <blank>	11/30/2014	<blank>	Active	<blank>
66666 <blank>, <blank>, MN <blank>	1115 <blank>, <blank>, MN <blank>	11/30/2014	<blank>	Active	This is another address I changed.
<blank>	3333 County Rd C, <blank>, MN <blank>	11/30/2014	<blank>	Active	This is a test of long comments in a report to see the wrapping on the PDF report with map
<blank>	<blank> <blank>, <blank>, MN <blank>	11/30/2014	<blank>	Active	<blank>



# Proposed Address Report



## METROGIS - Proposed Address Report

ADDRESSING DIVISION

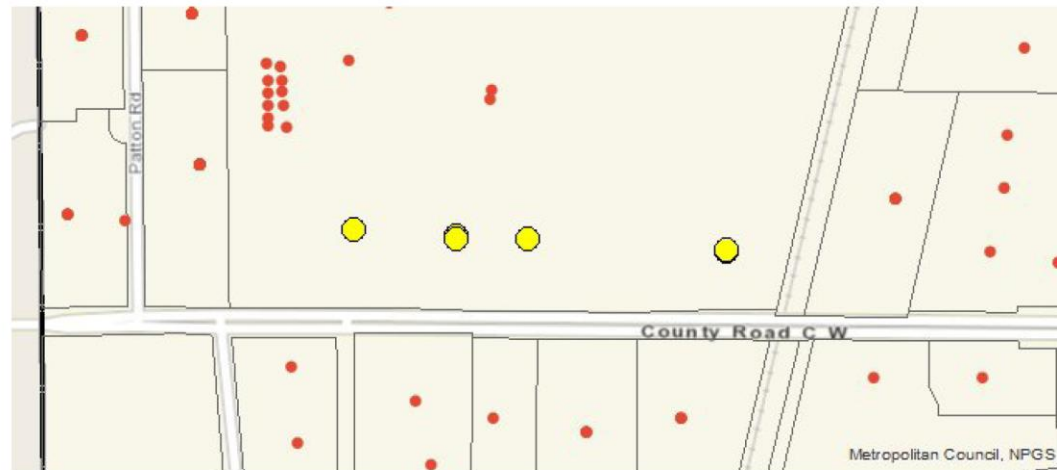
5200 85TH AVENUE NORTH

MN 55443

PHONE (763) 424 - 8000

FAX (763) 493 - 8391

REPORT DATE: 01/26/2015



Metropolitan Council, NPGS



# Two Other New Items

The screenshot displays the 'City of Roseville Address Point Editor Application' in a web browser. The browser's address bar shows the URL <http://maps2.northpointgis.com/metrogis/index.aspx#>. The application interface includes a menu bar (File, Edit, View, Favorites, Tools, Help) and a 'Logout' button in the top right corner. A toolbar on the left contains various editing tools, with a red status message: 'Current Editing Status: Not Editing'. Below the toolbar, a panel titled 'Address Point Information' shows 'No features selected'. The main map area displays a grid of red address points on a light green background, with street names 'Southwind Ln', 'Logan Ave W', and 'Langer Cir' visible. A scale bar at the bottom of the map indicates 0, 50, and 100 feet. The bottom status bar contains the text: 'Version: 3.0', 'NAD83 UTM Zone 15N, X: 492457.009289, Y: 4972771.828020', 'Metropolitan Council | NPGS', and 'powered by esri'. A 'Submit Issue' button is located on the right side of the map area. Two blue arrows point to specific UI elements: one points to a toolbar icon, and the other points to a dropdown menu labeled 'Metropolitan Council Basemap'.



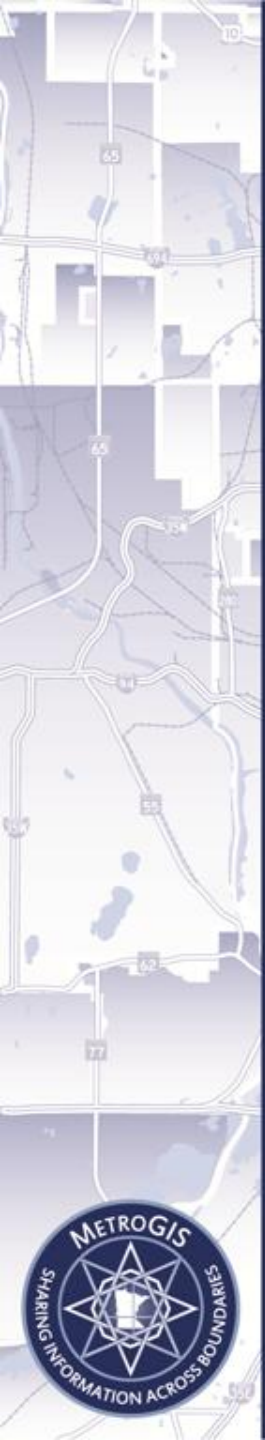
# Plus...

- Documentation updates
- Code organization and Management Updates
- Application Testing and QA
- Project Management and Oversight using JIRA software and Agile process



# AGILE

- Two Week Sprints
- Manage project in JIRA
  - User stories
  - Assign work
  - Bugs
  - Etc.
- User Acceptance Testing their site
- Setup and UAT our TST site



# Components - Servers

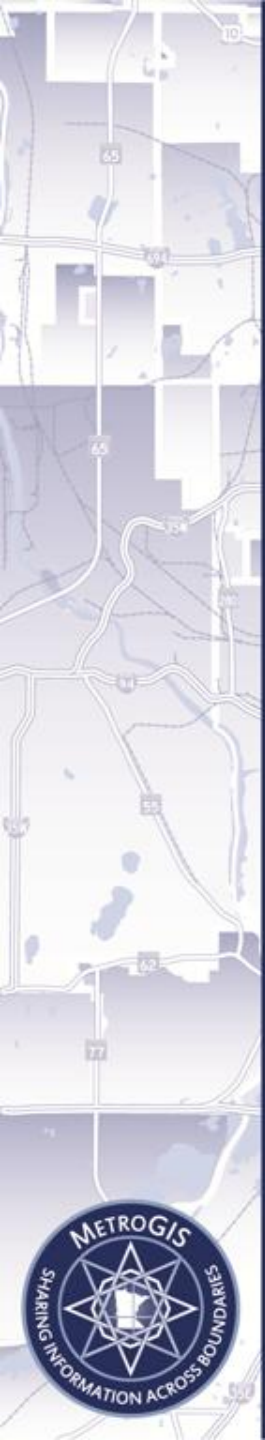
- ArcGIS Server 10.2
- .NET 4.0 (Authentication & uploading functionality) – C# Server-side coding
- Python 2.7 for CAD upload, Export and reporting functions
- ReportLab Python Library for report formatting and configuration
- AsyncFileUpload Control from Ajax Control Toolkit





# Components – Client Side

- Esri JavaScript API 3.12
- Dojo 1.10.2
- Kinetic JS – client-side georeferencing
- Dojo Growl Notifications



A vertical strip on the left side of the slide shows a map of the MetroGIS region. The map displays a network of roads and highways, with several routes labeled with numbers: 10, 65, 494, 65, 754, 44, 55, 62, 77, and 52. The map is rendered in shades of blue and white.

**WHEN CAN WE USE IT?  
MID-MARCH**

