LOOK WHAT I DID

New Jersey Geospatial Forum

June 5, 2009

FRIENDS OF THE LAWRENCE GREENWAY

David Mizenko

TWEETGIS

SITE SOURCE CODE

Donny Velazquez
Civil Solutions

NJ STATE ATLAS
NJ SCHOOLS

Edith Konopka, NJOGIS

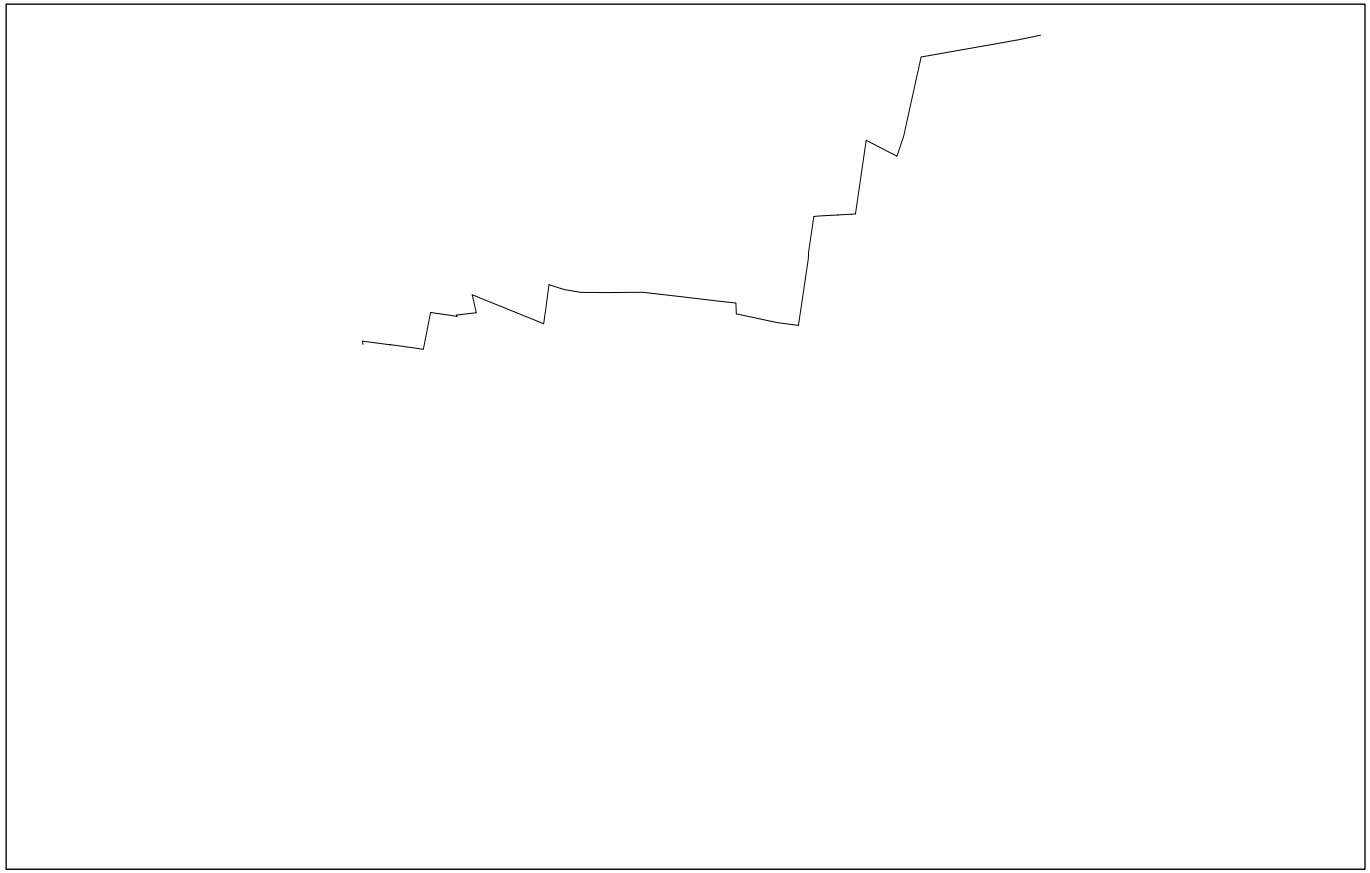
John Reiser, NJDCA

TRACKING DEVELOPMENT PROJECTS IN THE CITY OF TRENTON

Trish Long

City of Trenton

Tracking Development Projects in Trenton



Steps

- Needs assessed
- Initial data collected
- Simple table and map created using ArcMap
- Advanced database with queries and forms created using Access

Project Status Update Form

Microsoft Access - [Project Input Form : Form]

File Edit View Insert Format Records Tools Window Help Adobe PDF

Department of Housing Economic Development
Project Database

Project ID # 007
Timespan 1.Short-t
Criticality 2.YELLO
End Date
☐ Project Closed

Project Name: Early Childhood Developmental Center
Alt. Name: (SDA)
Contact: B. Valocchi
Lead Agency: 2. TBOE
Start Date:
Completion Date: Estimated
File location:

Location: (link to map)
Assoc. w/ Canal Banks area Ward: Nor
Client/ Contact(s):
Phone:

Type of Project
Funding Source

Project Goal: construction of a pre-K school next to the Battle Monument

	Issues:	Reported by	Projected End Date	Actual End Date
Jan 09	09/xx/08 - Project re-designed			
May 09	04/27/09 - The project has been on hold since October 08, while an amendment to the Architect's contract was being defined and negotiated. Due to internal SDA issues, approval process has been protracted but it appears resolution is near. SDA has asked for project restart meeting once the amendment is approved. Gabrielle Dujué of Hill			
date				

Record: 7 of 111

Form View

start | Housing and Develop... | Microsoft PowerPoint ... | Project Management ... | Project Input Form :

Current Limitations and Potential Solutions

- Two separate databases
  - one in Access; one in ArcMap
    - Solution: City recently upgraded to ArcSDE. Will that resolve this problem?
- Protracted project updates
  - updates are currently forwarded to one person
    - Solution: Make database available to more staff with training
- Limited public access
  - Development map, last updated February 2009, is currently on the City website. Data behind the map are not available
    - Solution: Interactive mapping application
- Leadership changes
  - Four different department directors since this project started in 2006!

IDENTIFICATION OF POTENTIAL PROPERTIES FOR WATER RESOURCE PROTECTION USING GIS

Jen Zhang

New Jersey Water Supply Authority

NJWSA - Identification of Potential Properties for Water Resource Protection using GIS

June 5th 2009

Jen Zhang

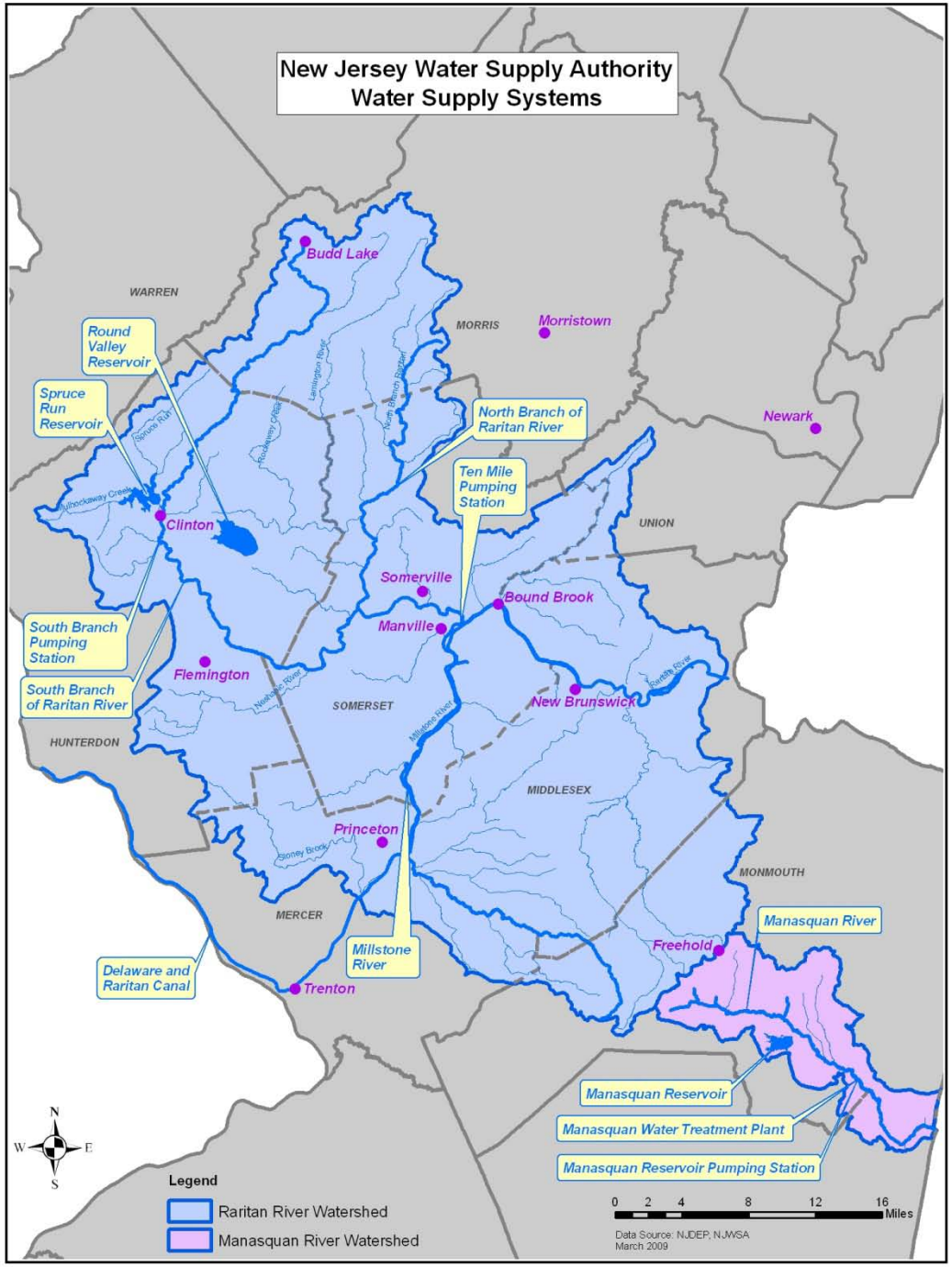
New Jersey Water Supply Authority

NJWSA Water Supply System

Independent State Authority – 1981

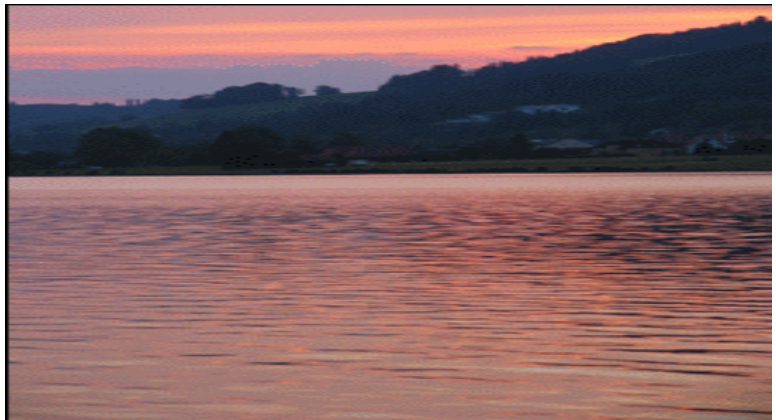
Operates state owned water supply facilities

Round Valley
Spruce Run
Delaware & Raritan Canal
Raritan System
Manasquan



Project Background

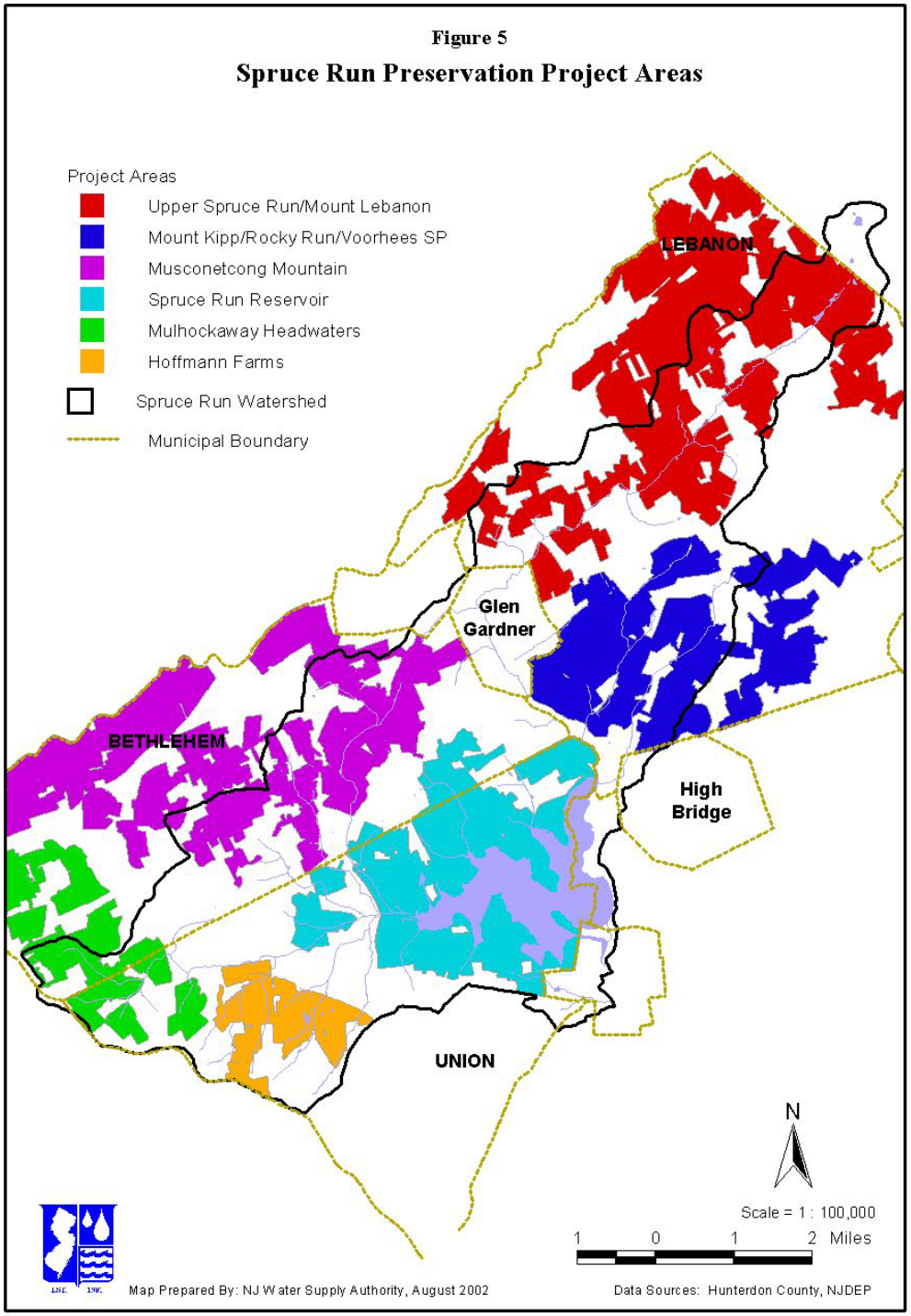
- Dramatic land use changes over the past few years in WMA8 and Lockatong and Wichecheoke Creek Watershed Area – our target acquisition project area.
- Importance of protection - It is time to identify and protect the most sensitive water resources before they will be lost forever
- Project Committee was formed in 2002 and created a GIS database to help open space acquisition and then revisited the criteria in Dec. 2008 for “water resource” specific criteria
- The whole GIS procedures involve using remote sensing, aerial photography and available geographic information system (GIS) data, but no field investigation and verification.

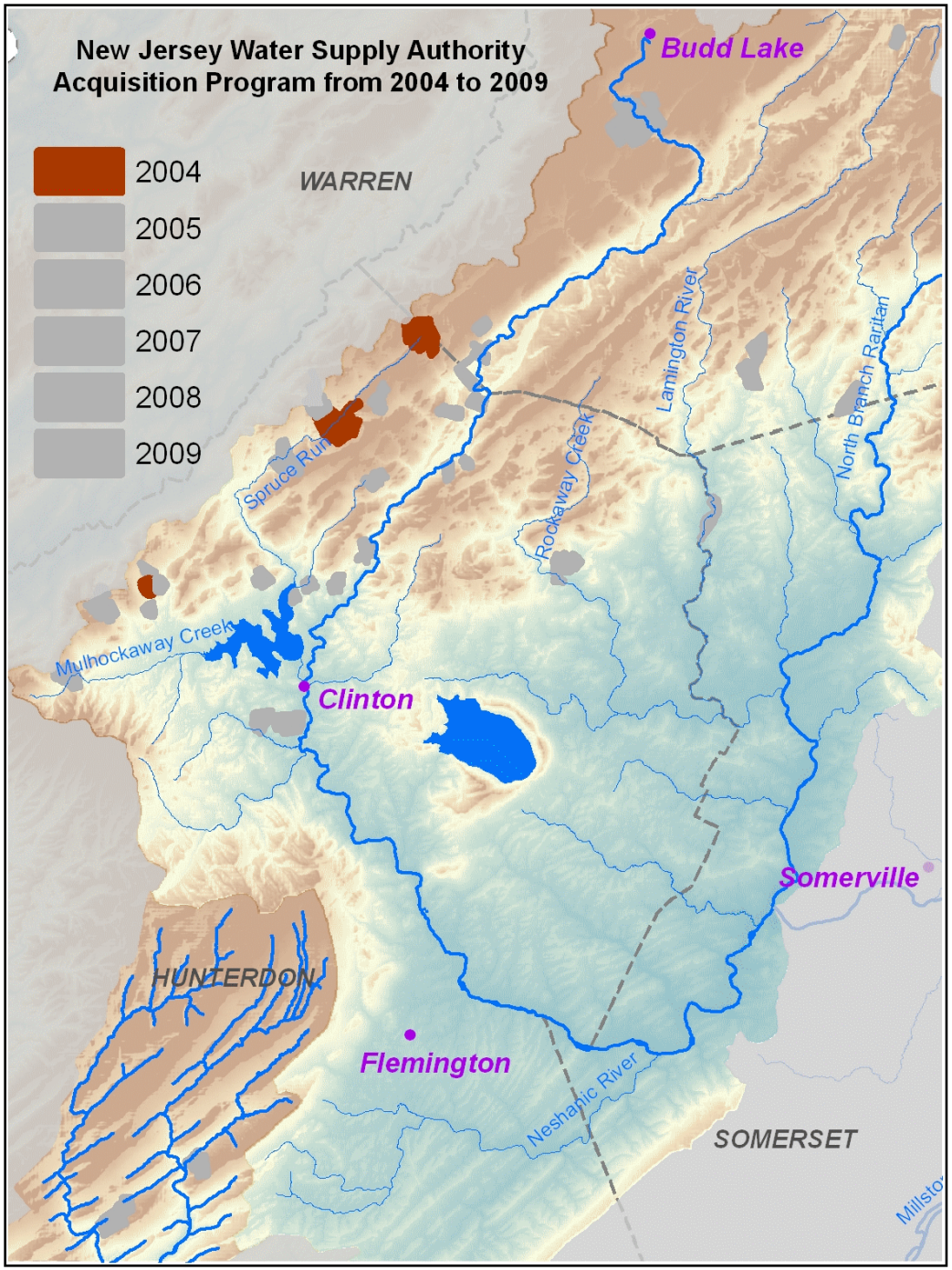


Target Areas

- 6900 acres (240 parcels) in 6 project areas targeted for preservation back in 2002

- Strategy now extends outside of original target areas





≈2534 acres preserved to date (2008)

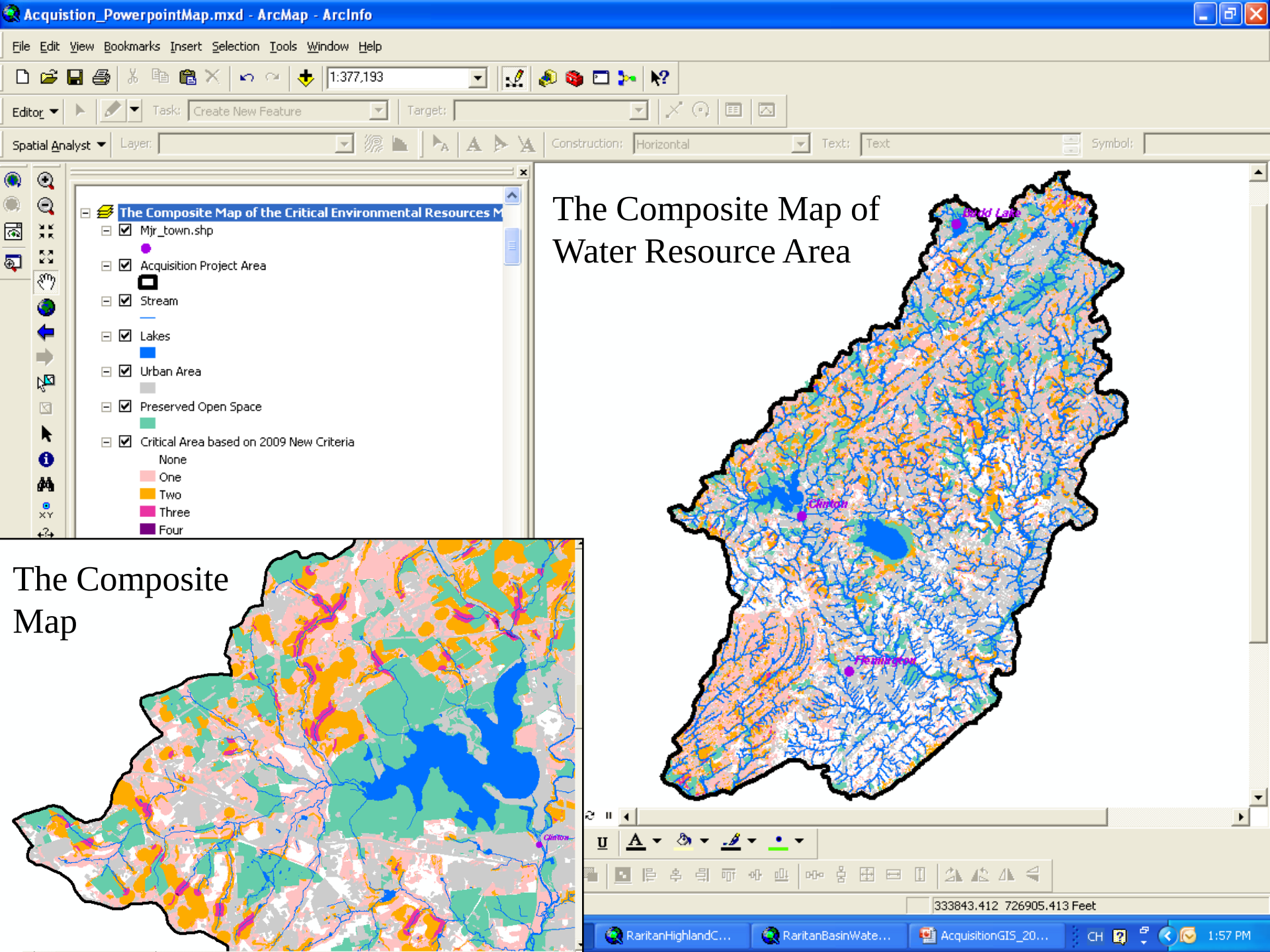
775 acres in active negotiations

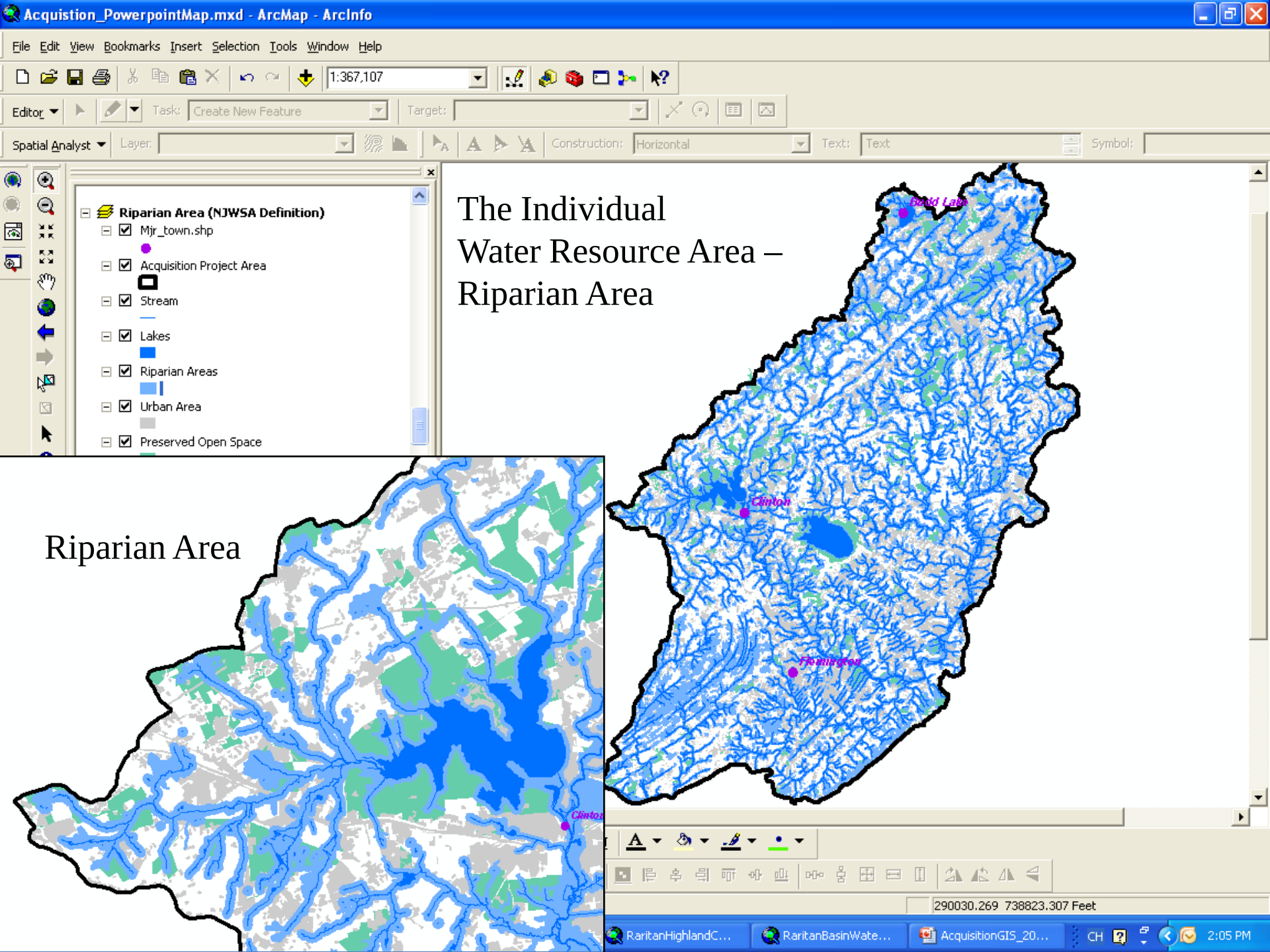
Project Constrains

- This project focused on water resource protection, it does not address all land conservation goals.
- The GIS model focused on remaining lands instead of the existing preserved (open space and farmland) or developed lands.
- Use readily available GIS data, was limited by data availability and how current the data is (eg. 2002 LU/LC)

Acquire Critical Water Resource Open Space

- Stream corridors
- Headwaters
- Wetlands
- Flood hazard areas
- Critical habitats
- Riparian forests
- Prime ground water recharge and aquifer recharge areas
- Highly erodible soils


Acquistion_PowerpointMap.mxd - ArcMap - ArcInfo
File Edit View Bookmarks Insert Selection Tools Window Help
1:377,193
Editor
Task: Create New Feature
Target:
Spatial Analyst
Layer:
Construction: Horizontal
Text: Text
Symbol:
The Composite Map of the Critical Environmental Resources M
Mjr_town.shp
Acquisition Project Area
Stream
Lakes
Urban Area
Preserved Open Space
Critical Area based on 2009 New Criteria
None
One
Two
Three
Four
The Composite Map of Water Resource Area
Clinton
Flemington
The Composite Map
333843.412 726905.413 Feet
RaritanHighlandC...
RaritanBasinWate...
AcquisitionGIS_20...
CH
1:57 PM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File Edit View Bookmarks Insert Selection Tools Window Help
1:367,107
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Target:
Spatial Analyst
Layer:
Construction: Horizontal
Text: Text
Symbol:
Riparian Area (NJWSA Definition)
Mjr_town.shp
Acquisition Project Area
Stream
Lakes
Riparian Areas
Urban Area
Preserved Open Space
The Individual
Water Resource Area –
Riparian Area
Riparian Area
Clinton
Flemington
290030.269 738823.307 Feet
RaritanHighlandC...
RaritanBasinWate...
AcquisitionGIS_20...
CH
2:05 PM

Property Analysis

The property analysis can show -

- The % of water resource area on each property (all the water resource areas were weighted equally and grouped into a composite critical area)
- The type and the location of water resource area on each property.

Acquistion_PowerpointMap.mxd - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

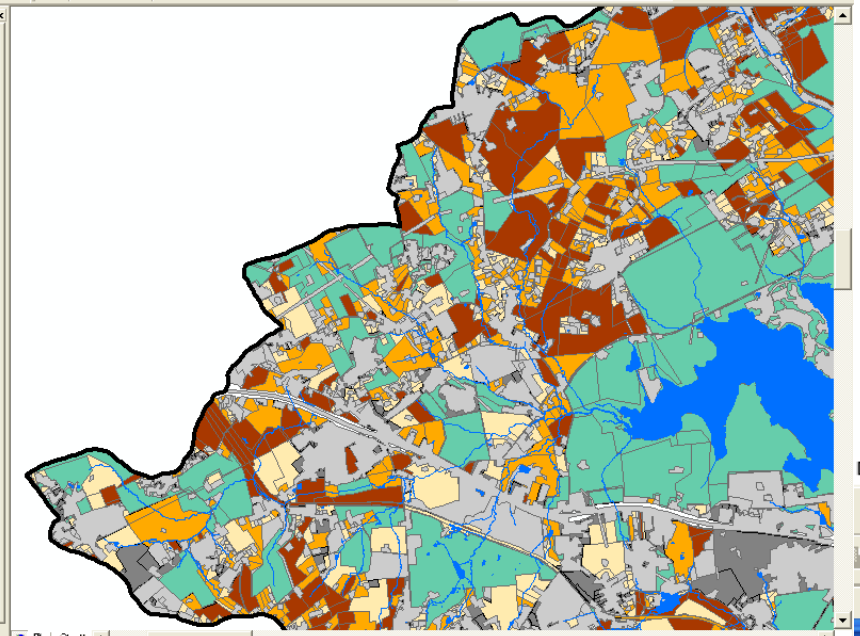
1:377,163

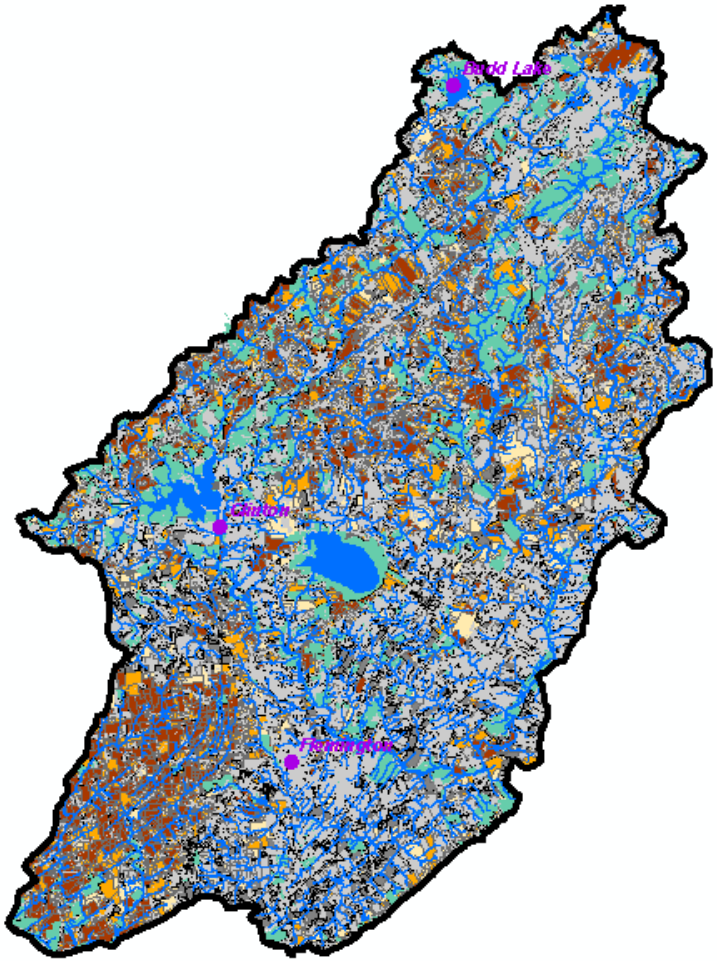
Editor Task: Create New Feature Target:

Spatial Analyst Layer: Construction: Horizontal Text: Text Symbol:

Percent of Property in Critical Area

- Mjr_town.shp
- Acquisition Project Area
- Stream
- Lakes
- Urban Area
- Preserved Open Space
- Percent of Properties in Critical Area
  - Less than 25%
  - 25 - 50%
  - 50 - 70%





318922.027 714539.414 Feet

2 Microsoft Offi... 2 Windows Expl... Riparian Mapping ... CH 12:39 PM

Application of this Project

- Rank properties by their % included in water resource area
- Rank properties by property size
- Check what water resource environmental features located in each property and where
- Assess and evaluate potential properties for future acquisition
- Avoid isolated open space – consider proximity to existing preserved open space
- Use the findings from this project to assist in soliciting state funds
- Can lead to improvements to municipal ordinances, master plans, environmental resource inventories, zoning density, open space preservation plans, etc

NJWSA Acquisition Process

- All potential properties will be first evaluated through this database to determine the number of criteria present
- If a property ranks highly enough, a second level of evaluation will be applied. This second tier will be a case-by-case critical review.
- All the criteria are weighted equally in this database. Further scoring might be added based on project requirement.

Open Space Acquisition in the Raritan Basin

A comprehensive approach that relies on strong partnerships at all levels

Contact: Jen Zhang
email: jzhang@raritanbasin.org
Tel: 908-685-0315 ext 229

GIS IMPLEMENTATIONS IN LAW ENFORCEMENT

Sean McGinnis

Avencia

avencia

GIS Implementations in Law Enforcement

Sean McGinnis

ESRI

Microsoft
SQL Server 2008

PostgreSQL

ORACLE

HunchLab

PostGIS
Spatial PostgreSQL

kaleidocade

OpenLayers™

GeoServer

PHILADELPHIA
POLICE
HONOR
SERVICE
INTEGRITY

Penn

BUREAU OF ALCOHOL, TOBACCO, FIREARMS AND EXPLOSIVES
1972

INTERNATIONAL ASSOCIATION OF CHIEFS OF POLICE
POLICE
SINCE 1893

LAW ENFORCEMENT
LESA
SUPPORT AGENCY

PHILADELPHIA HOUSING
POLICE

pennsylvania
STATEWIDE RADIO NETWORK
PA-STARNET

INTERNATIONAL ASSOCIATION OF CHIEFS OF POLICE

POLICE

SINCE 1893

International Association of Chiefs of Police

Juvenile Justice Services & Programs Directory

- Inventory services and programs
- Share information
- Improve spatial accuracy

Law Enforcement
Juvenile Justice Program and Services Directory

Share your agency's programs and services for youth. Explore what others jurisdictions are doing with youth in their communities

This website sponsored by the Office of Juvenile Justice and Delinquency Prevention provides law enforcement agencies across the country the opportunity to showcase and update information about their agency's programs and services for youth. In addition, users can search for programs near them and narrow their search by specifying criteria such as program type or agency size.

Search for Participating Agencies—Near and Far

Add/Update Information About Your Agency

News of Interest

April 28, 2009

Lower Makefield Township DARE Program gets National Recognition

The Lower Make Field Township

March 24, 2009

First Recruit in Philadelphia Ranger Program just completed PPD Detective School

Dr. Duane Marble was tazed by a

March 24, 2009

Michigan State Police Youth Program wins 2008 IACP Civil Rights Award

The Michigan Youth Leadership (MYL) Program that serves inner-city

Law Enforcement
Juvenile Justice Program and Services Directory

Agency Search Criteria

Geographic Location:

Trenton, NJ

Within Miles:

1 2 3 5 10 15 25 50 No Limit

States Where Agencies Are Located:

View/Modify Selection 0 Selected

Services/Programs:

View/Modify Selection 0 Selected

Agency Name Contains:

Agency Size:

Min: Max:

Agency Type:

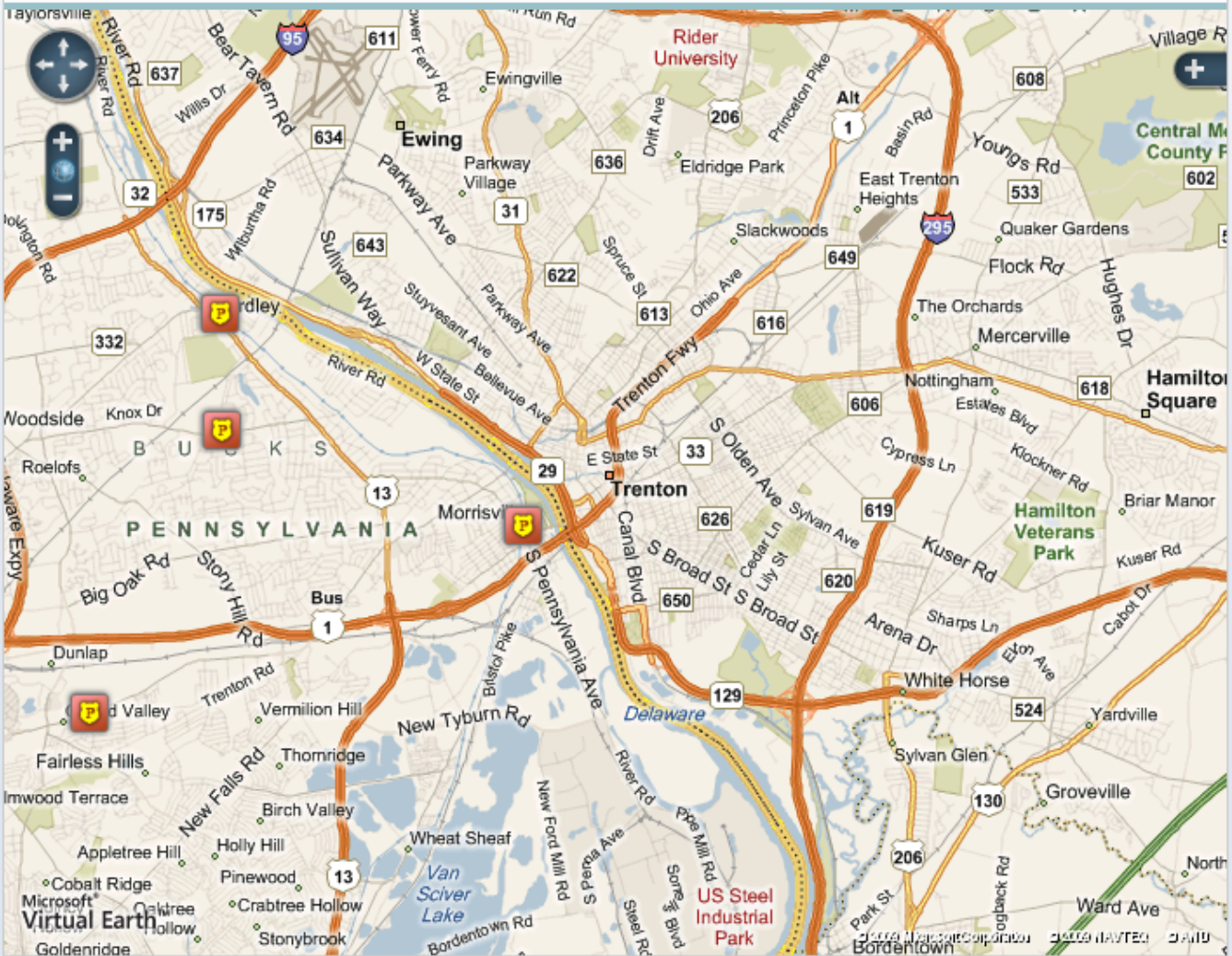
Keywords:

Has School Resource Officers?:

Reset Search

Agency List | Agency Map

Multiple agencies at these locations. Zoom in or click images for more information. Retrieved points: 11. Retrieved multi-points: 1.



Update Survey for ADDISON COUNTY SHERIFF DEPARTMENT in VT (#1362)

Agency Information | Prevention Education | Mentoring Youth | Special Focus | Youth Centered | Additional Programs

D.A.R.E. (Drug Resistance Education Training)

Add Link | Add Description

Link:

http://add-dare.com

Description:

D.A.R.E. is a police officer-led series of classroom lessons that teaches children from kindergarten through 12th grade how to resist peer pressure and live productive drug and violence-free lives

Drug Awareness/Education for Parents

Add Link | Add Description

Alcohol Awareness/Education for Youth

Add Link | Add Description

Alcohol Awareness/Education for Parents

Add Link | Add Description

Save (complete) | Save (partial) | Cancel

Manage Account | Logout

Law Enforcement
Juvenile Justice Program and Services Directory

Survey Home

Update Survey for ADDISON CO ... 62)

Agency Information | Prevention Education | M ... ams

Agency Address
35 COURT STREET, VT 5753

Agency URL
http://addison.com

Number of Full-Time Sworn Officers (Approximate if exact number is not
23

☑ Does your agency currently have ... crisis situations (e.g., shooting, b

☑ Does your agency assign employ ...

Number of school resource officers ... school year. (Approximate if exact
3

☑ Does your agency have a central ... Services") that coordinates juve...

What is the official name of that unit?
The Juvenile Division of Addison

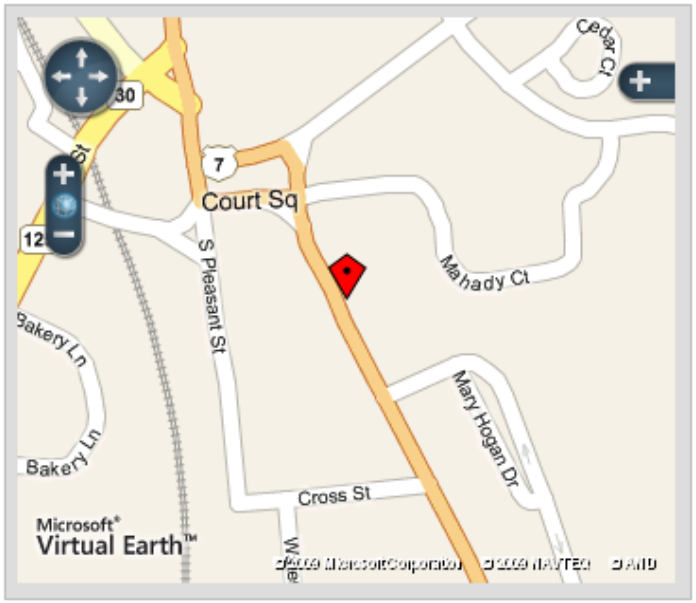
Save (complete) | Save (partial) | Cancel

Verify Agency Location

Below is the geographic location of the agency as it is currently stored in the database.

35 COURT STREET, VT 5753

Geocode To Location



If this is incorrect, navigate to the correct location and click it.
A marker will appear at the chosen location.

Close

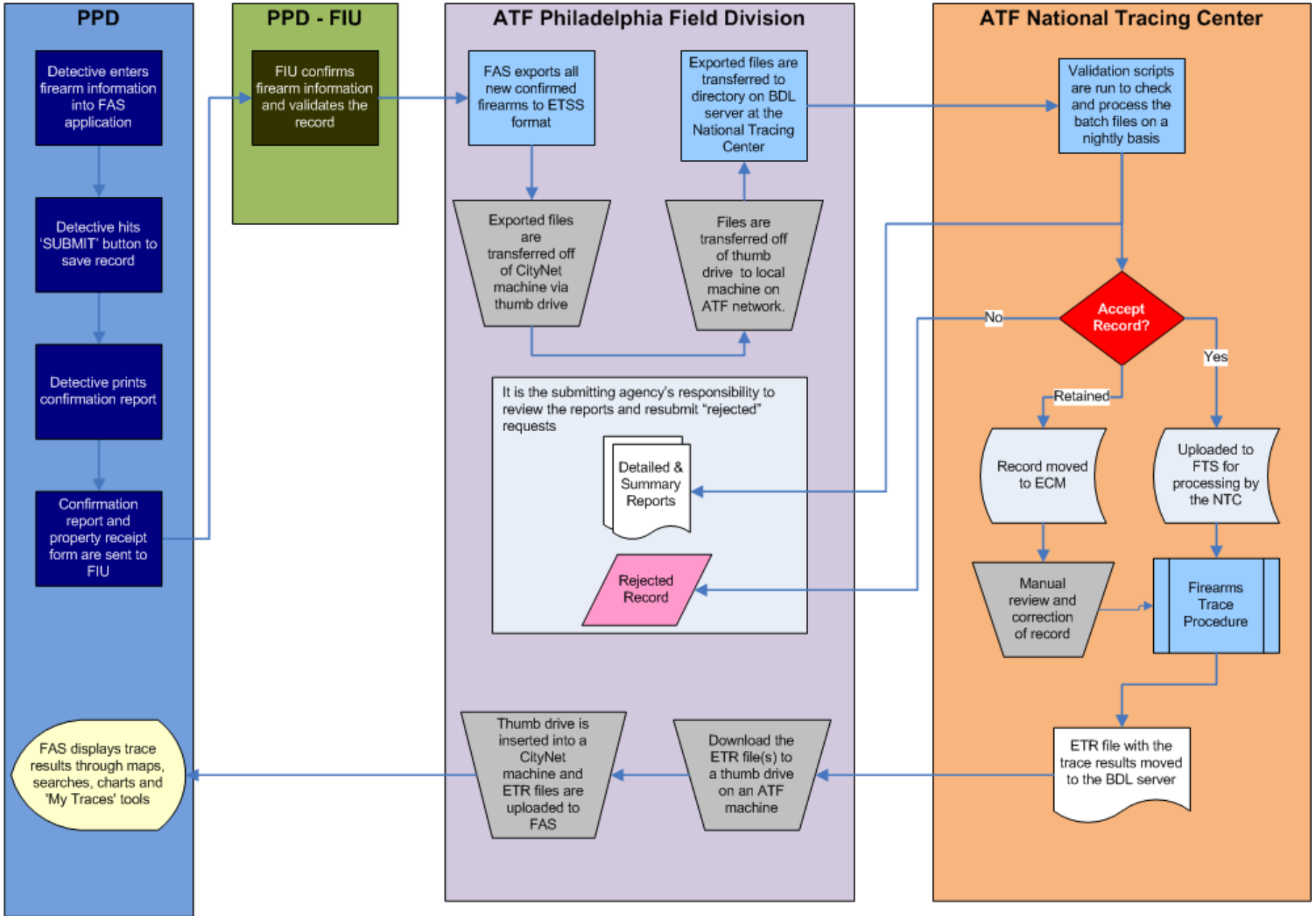
...fy Location

BUREAU OF ALCOHOL, TOBACCO, FIREARMS AND EXPLOSIVES
1972

Bureau of Alcohol, Tobacco, Firearms and Explosives

Firearms Analysis System (FAS)

- Replace manual, paper process
- Multiple divisions across two organizations
- Accelerate information return


PPD
Detective enters firearm information into FAS application
Detective hits 'SUBMIT' button to save record
Detective prints confirmation report
Confirmation report and property receipt form are sent to FIU
FAS displays trace results through maps, searches, charts and 'My Traces' tools
PPD - FIU
FIU confirms firearm information and validates the record
ATF Philadelphia Field Division
FAS exports all new confirmed firearms to ETSS format
Exported files are transferred to directory on BDL server at the National Tracing Center
Exported files are transferred off of CityNet machine via thumb drive
Files are transferred off of thumb drive to local machine on ATF network.
It is the submitting agency's responsibility to review the reports and resubmit "rejected" requests
Detailed & Summary Reports
Rejected Record
Thumb drive is inserted into a CityNet machine and ETR files are uploaded to FAS
Download the ETR file(s) to a thumb drive on an ATF machine
ATF National Tracing Center
Validation scripts are run to check and process the batch files on a nightly basis
Accept Record?
No
Yes
Retained
Record moved to ECM
Uploaded to FTS for processing by the NTC
Manual review and correction of record
Firearms Trace Procedure
ETR file with the trace results moved to the BDL server

Firearms Analysis System

Firearms Trace Request

CANCEL REQUEST | SUBMIT REQUEST

Officer | Weapon | Recovery

Step 2: Weapon Information

= REQUIRED

Firearms identification guide

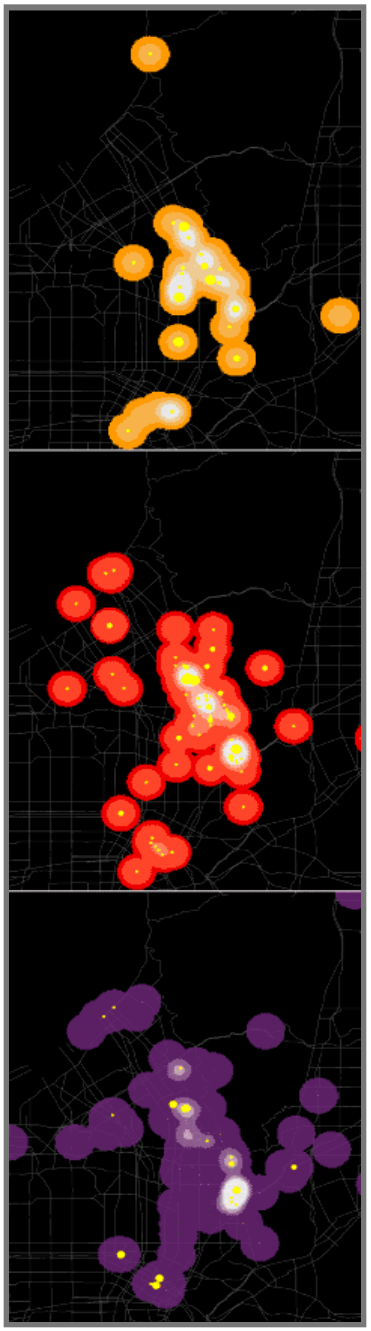
Firearm Type:
Pistol

Manufacturer/Country:
SMITH & WESSON, US

Caliber:
45

Model:
- (•) RECON
- ( ) Unknown

Serial Number:
- (•) X5437986B-3
- ( ) Can't find it

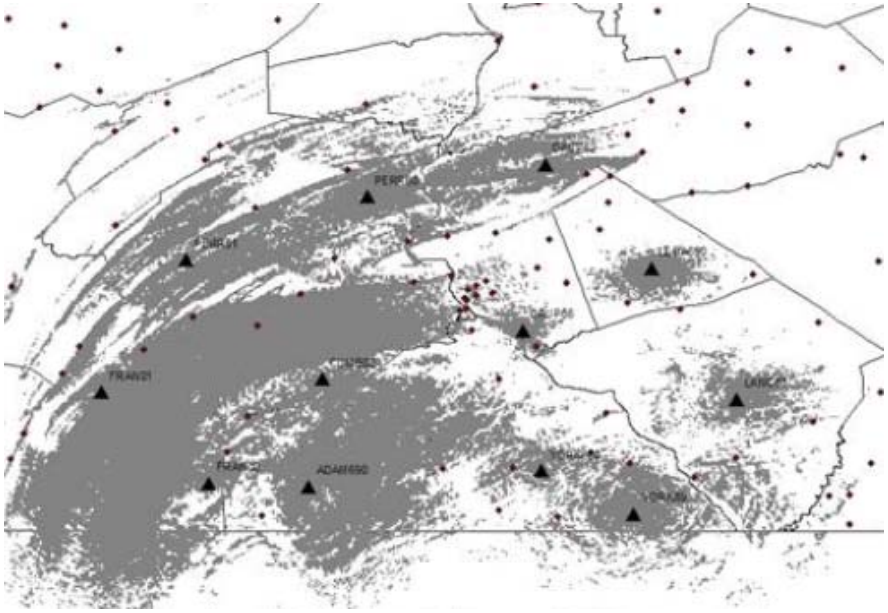


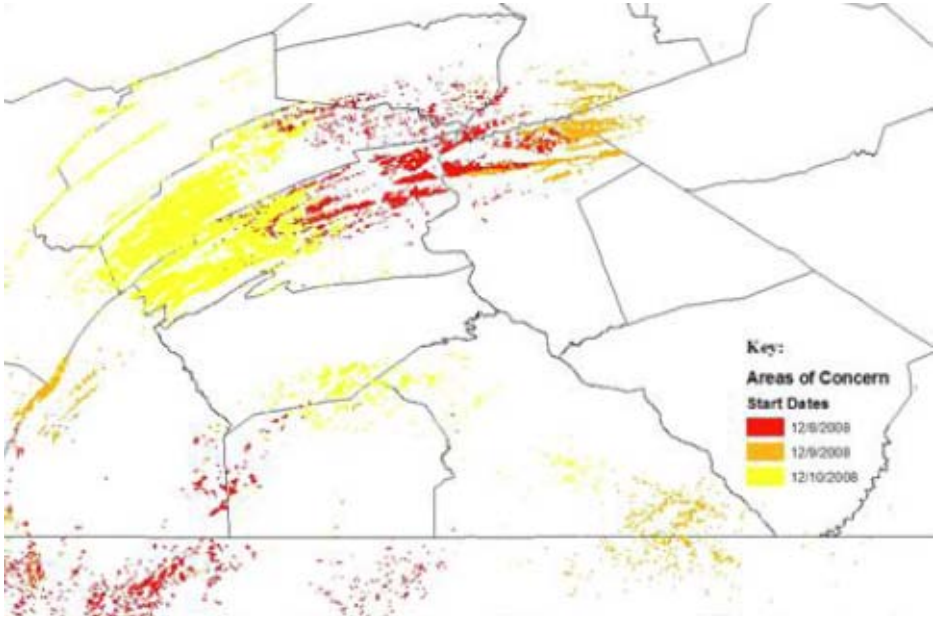
1
2
3
4
5

pennsylvania
STATEWIDE RADIO NETWORK
PA-STARNET

Pennsylvania Office of Public Safety Radio Services

- Mapping wireless signal coverage
- Sharing dynamic dataset
- ESRI's JavaScript API





Public Safety Radio

- Access Request
- Contacts
- Standard Maps
- **Policy**
- **Glossary**
- **Support**

OA Home

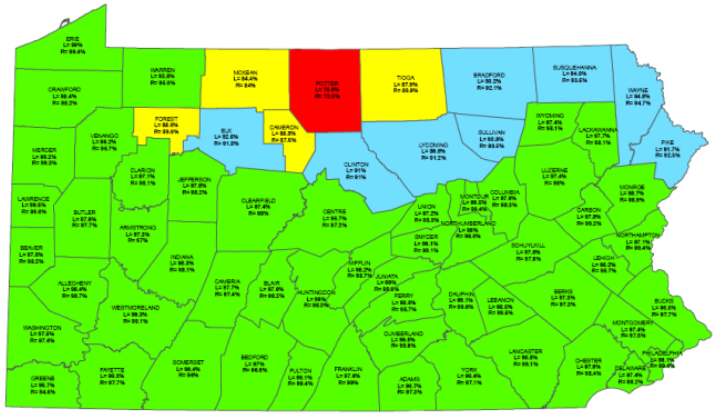
Log In

Address: 2605 Interstate Drive, Suite 140 Harrisburg, PA 17110
Phone: 717.772.8005
Fax: 717.772.8097
E-mail: Contact Public Safety Radio
E-mail: Contact Customer Support

Key Documents

- Overview and Fact Sheet (Adobe PDF)
  PA-STARNet history, technology, use, and development status
- Interoperability Plan (Adobe PDF, 12MB)
  Statewide Communications Interoperability Plan (SCIP) 3/2008
- Channels 9-1 (Adobe PDF)
  Tyco Electronics newsletter: PA-STARNet article
- Tyco Electronics Rider C Extract (Adobe PDF, 5MB)
  Equipment Catalog - DGS 4600001806 (Legacy 5820-06) **for reference only**

Pennsylvania Statewide Radio Network



Legend | Layers | Services

OPRS Operational

EDWARD G. RENDELL
GOVERNOR
Charles Brennan
Deputy Secretary

ANNOUNCEMENTS

11/20/2008
PUBLIC SAFETY RADIO BUILDS FEDERAL GOVERNMENT PARTNERSHIPS
Pennsylvania Continues to Build Partnerships to Strengthen Public Safety Communications through Grant Funding

11/04/2008
3RD ANNUAL INTEROPERABILITY CONFERENCE SET FOR FALL 2009
PA Interop III Expands to Day and a Half and Moves to Fall, September 30 and October 1, 2009

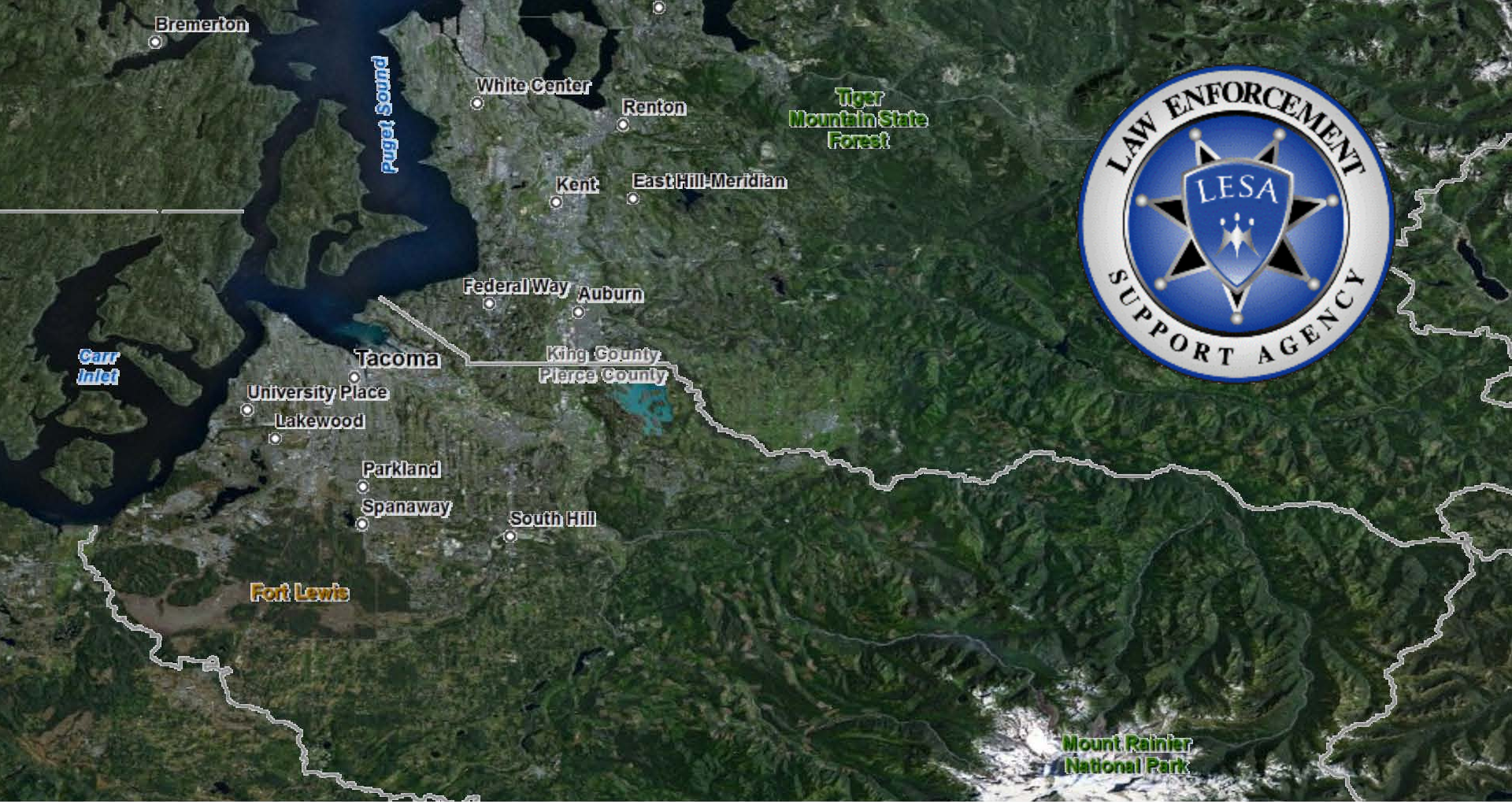
06/05/2008
INTEROPERABILITY CONFERENCE FEATURED IN PENNSYLVANIA PRESS
Altoona Mirror Reports on Second Annual Pennsylvania Statewide Interoperability Conference

06/04/2008
EMERGENCY RESPONDERS FROM ACROSS PA DISCUSS WAYS TO IMPROVE CRISIS COMMUNICATIONS
Improving Radio Communication Key to Protecting Public Safety

MORE ANNOUNCEMENTS

Links to Other Sites

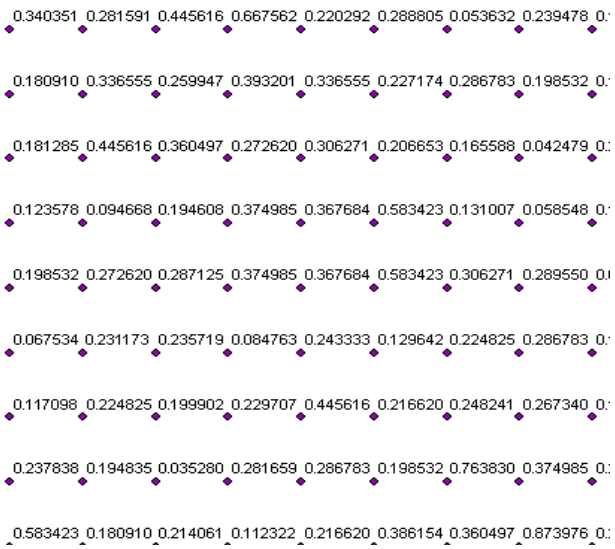
- Cell Phone Service in Pa.
  Legislative Budget & Finance Committee report including Public Safety Radio role
- OpenSky Technology
  Tyco Electronics Wireless Systems (formerly M/A-COM)
- Alcatel
  Microwave network contractor
- RCC Consultants


Bremerton
Puget Sound
White Center
Renton
Tiger Mountain State Forest
Kent
East Hill-Meridian
Federal Way
Auburn
Carr Inlet
Tacoma
King County
Pierce County
University Place
Lakewood
Parkland
Spanaway
South Hill
Fort Lewis
Mount Rainier National Park
LAW ENFORCEMENT
LESA
SUPPORT AGENCY

Pierce County and the City of Tacoma

Crime Early Warning System (CEWS)

- Multi-jurisdictional response
- Automated data mining
- Real-time notification



LESA - Crime Early Warning System
Narcotics in the 19th

This is an automated message from the Crime Early Warning System (CEWS). The CEWS has detected a change based on the **Narcotics in the 19th** hunch.

Details

Data Source: Incidents
Hunch Type: Statistical
Categories: 400 – Agg Assualt, 1800 – Narcotic/Drug Violation
Status: New
Score: 98.2
Last Valid: 12/22/2008
Created By: Sgt. Smith
Created On: 11/13/2008

Please click here to view the complete details about this alert or other alerts that may be occurring in the area. If you are having trouble with the link above, copy and paste the following URL into your browser:
http://192.168.0.2/CEWS/CrimeReport.aspx?Inc=36547

If you have any questions or concerns, please contact the CEWS Administrator via email or by telephone at (800) 223-4897

If you are having trouble viewing this email, please click here.

Law Enforcement Support Agency

User: avnc-int\smcginnis Last Login: 5/20/2009 3:57:20 PM

Edit Profile

My Hunches | Search Hunches | Create Hunch

Powered by HunchLab

My Hunches

Tools	Name	Owner	Subscriber Count	Last Valid	Source
	Tacoma Theft(ctrPt: 1163332.23925781. 702080.58984375)	Avencia Dev	1	10/11/2008 3:00:46 AM	RMS
	Tacoma Theft(ctrPt: 1163332.23925781. 699580.58984375)	Avencia Dev	1	10/11/2008 3:00:46 AM	RMS
	Tacoma Theft(ctrPt: 1155832.23925781. 704580.58984375)	Avencia Dev	1	10/11/2008 3:00:46 AM	RMS

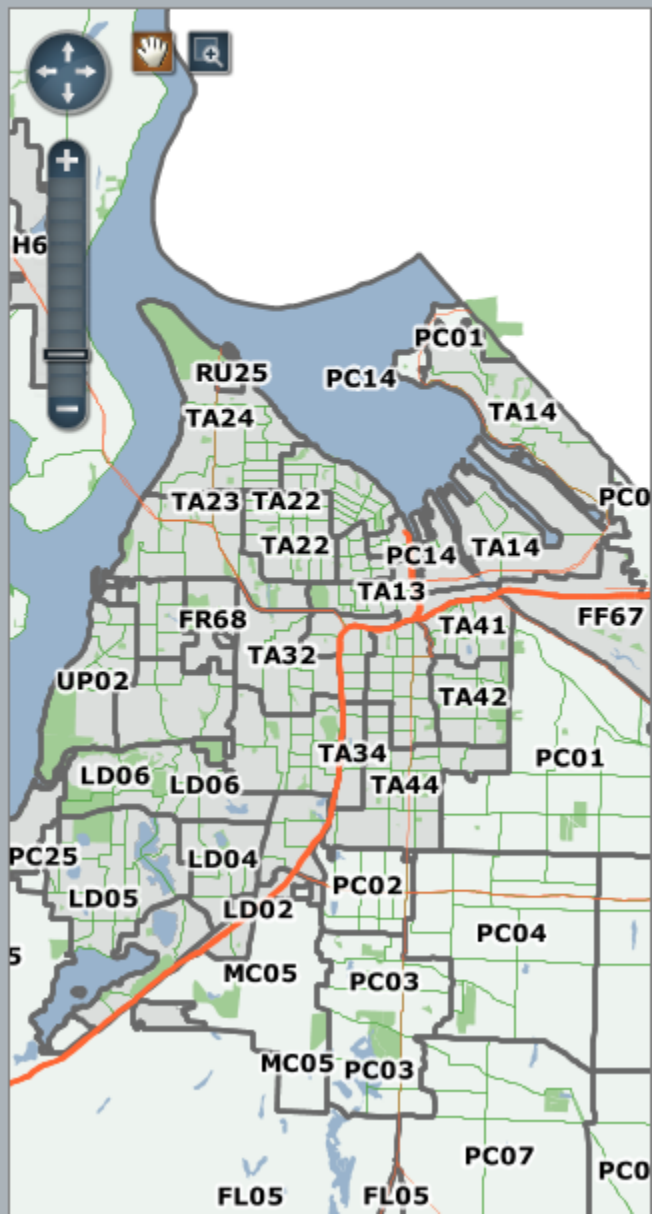
My Event Triggers

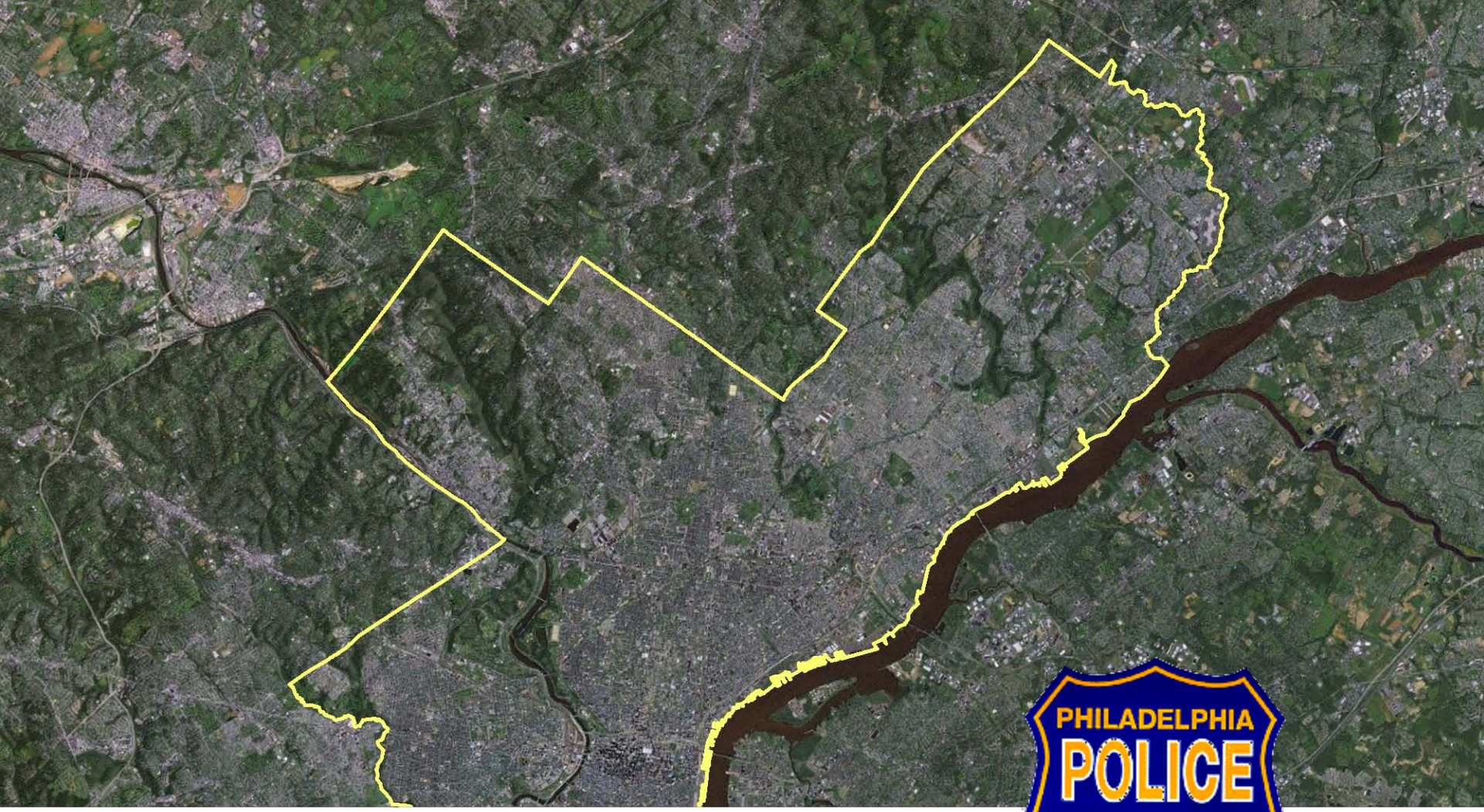
Tools	Name	Owner	Subscriber Count	Last Valid	Source
	Car thefts in the 23rd	Sean McGinnis	1	10/11/2008 3:00:46 AM	RMS
	Arson Event Trigger - Tacoma	David Felcan	2	10/11/2008 3:00:46 AM	RMS
	Arson Event Trigger - Lakewood	David Felcan	2	9/26/2008 3:00:08 AM	RMS
	Car Theft in TA32	Sean McGinnis	1	N/A	RMS

Groups - Automated Hunches & Event Triggers

Valid last: 3 days

- Hunches
- EventTriggers





Philadelphia Police Department

Public Web Mapping

- New Police Commissioner
- Increased transparency
- Protect victim confidentiality

ppdonline.org | Philadelphia Police Department
honor - integrity - service

Contact Tip Line: 215.686.TIPS

1 Address, Intersection, or Place Name:
1234 Market St

2 Select a Crime Category:
Retail Theft

3 Select a Date Range (From 01/01/2007, 30 days maximum):
From: 4/29/2009 To: 5/29/2009
Range: Select Date Range

Create Map

© 2008 Philadelphia Police Department - All Rights Reserved

ppdonline.org | Philadelphia Police Department
honor - integrity - service

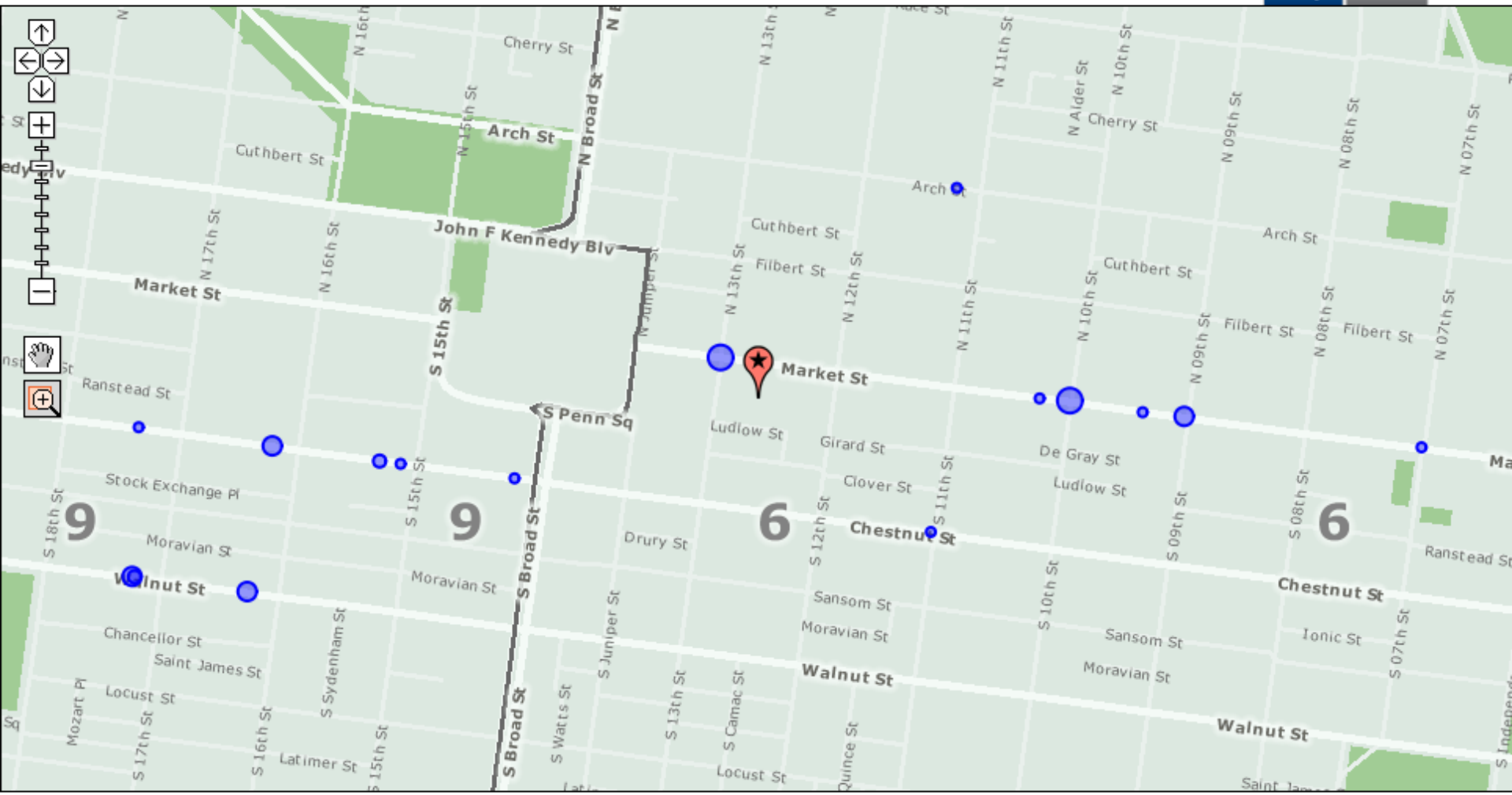
Address or Place Name: 1234 MARKET ST [Find Address]

Select a Crime Category: Retail Theft

Date Range (From 01/01/2007, 30 days max): 4/29/2009 - 5/29/2009 [Search Incidents]

Incidents on map: 63

[Map] [Data]



ppdonline.org | Philadelphia Police Department
honor - integrity - service

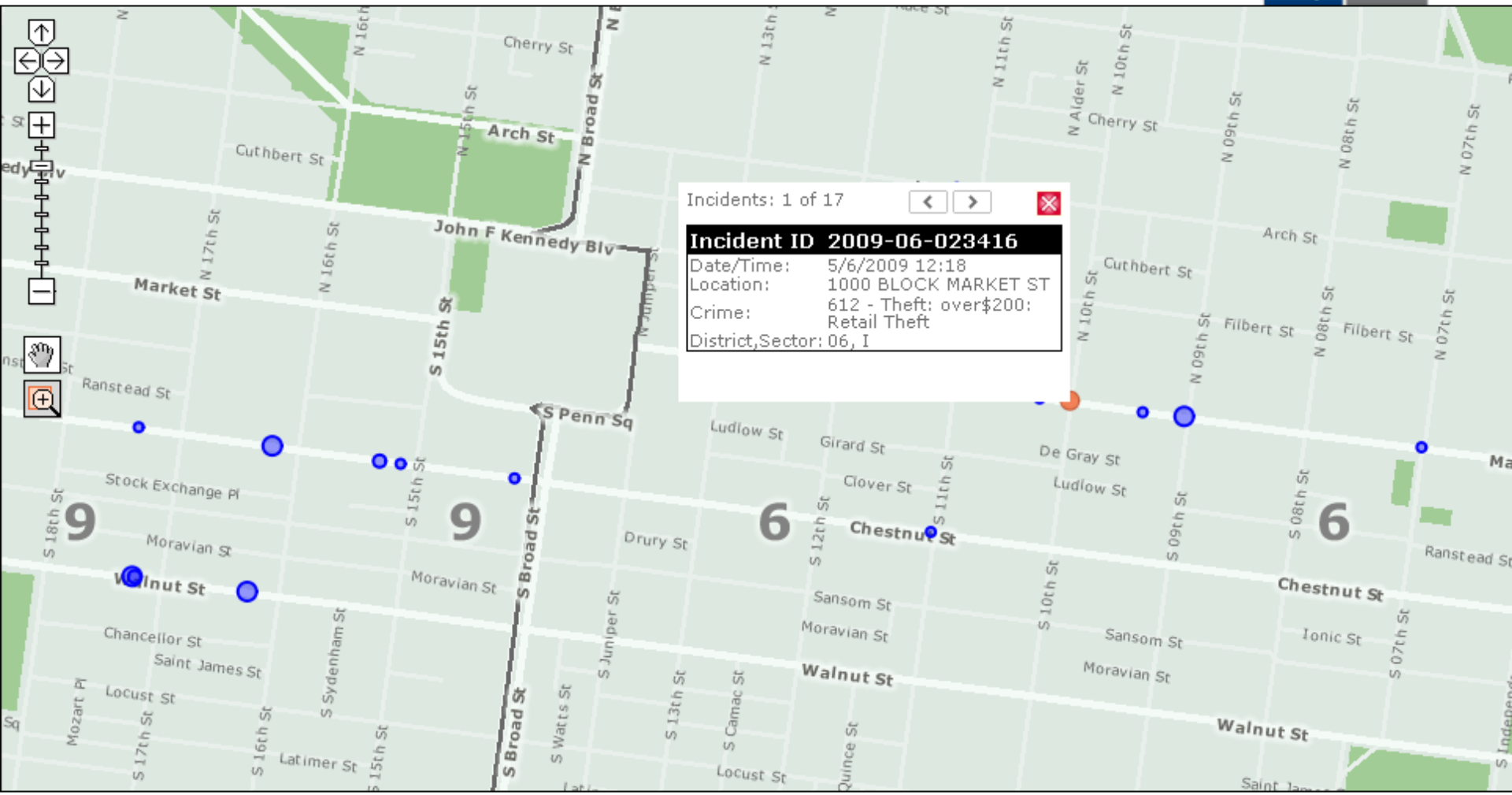
Address or Place Name: 1234 MARKET ST [Find Address]

Select a Crime Category: Retail Theft

Date Range (From 01/01/2007, 30 days max): 4/29/2009 - 5/29/2009 [Search Incidents]

Incidents on map: 63

[Map] [Data]



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Address or Place Name: 1234 MARKET ST [Find Address]

Select a Crime Category: Retail Theft

Date Range (From 01/01/2007, 30 days max): 4/29/2009 - 5/29/2009 [Search Incidents]

Map | Data

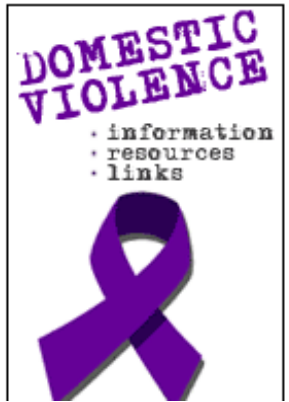
Incidents on Map: 63 [Download Data]

District Control No	Crime Category	Location	Date/Time	District	Sector	Premise Code
2009-06-027566	622 - Theft: $50-200: Retail Theft	900 BLOCK MARKET ST	5/27/2009 14:46	06	I	134. Shopping Center/Mall (inside)
2009-06-027528	622 - Theft: $50-200: Retail Theft	1000 BLOCK MARKET ST	5/27/2009 10:47	06	I	29. Retail Store (Other)
2009-06-027412	622 - Theft: $50-200: Retail Theft	1000 BLOCK MARKET ST	5/26/2009 17:32	06	I	29. Retail Store (Other)
2009-06-027408	612 - Theft: over$200: Retail Theft	1000 BLOCK MARKET ST	5/26/2009 17:03	06	I	11. Clothing Store
2009-06-027411	622 - Theft: $50-200: Retail Theft	1000 BLOCK MARKET ST	5/26/2009 16:45	06	I	29. Retail Store (Other)
2009-06-027176	622 - Theft: $50-200: Retail Theft	1000 BLOCK MARKET ST	5/25/2009 11:39	06	I	12. Department Store
2009-06-026866	632 - Theft: under$50: Retail Theft	1000 BLOCK MARKET ST	5/23/2009 17:30	06	I	29. Retail Store (Other)
2009-09-024137	622 - Theft: $50-200: Retail Theft	1700 BLOCK WALNUT ST	5/22/2009 18:32	09	E	29. Retail Store (Other)
2009-09-023956	622 - Theft: $50-200: Retail Theft	1600 BLOCK CHESTNUT ST	5/21/2009 18:43	09	D	29. Retail Store (Other)
2009-06-026424	622 - Theft: $50-200: Retail Theft	900 BLOCK MARKET ST	5/21/2009 16:52	06	I	134. Shopping Center/Mall (inside)
2009-09-023905	612 - Theft: over$200: Retail Theft	1600 BLOCK CHESTNUT ST	5/21/2009 14:52	09	G	11. Clothing Store
2009-06-026290	622 - Theft: $50-200: Retail Theft	1300 BLOCK MARKET ST	5/20/2009 21:01	06	J	53. Highway (Outside Structure)
2009-06-026243	622 - Theft: $50-200: Retail Theft	1300 BLOCK MARKET ST	5/20/2009 17:27	06	J	12. Department Store
2009-06-026194	612 - Theft: over$200: Retail Theft	1300 BLOCK MARKET ST	5/20/2009 12:41	06	J	12. Department Store
2009-06-026051	612 - Theft: over$200: Retail Theft	1300 BLOCK MARKET ST	5/19/2009 17:15	06	J	12. Department Store
2009-09-023510	612 - Theft: over$200: Retail Theft	1600 BLOCK CHESTNUT ST	5/19/2009 14:20	09	D	29. Retail Store (Other)
2009-06-025815	632 - Theft: under$50: Retail Theft	900 BLOCK MARKET ST	5/18/2009 11:53	06	I	29. Retail Store (Other)
2009-06-025635	612 - Theft: over$200: Retail Theft	1300 BLOCK MARKET ST	5/17/2009 14:01	06	J	12. Department Store
2009-09-023132	612 - Theft: over$200: Retail Theft	1700 BLOCK WALNUT ST	5/17/2009 12:53	09	E	29. Retail Store (Other)
2009-09-023025	612 - Theft: over$200: Retail Theft	1400 BLOCK CHESTNUT ST	5/16/2009 19:48	09	D	11. Clothing Store
2009-09-023010	622 - Theft: $50-200: Retail Theft	1600 BLOCK WALNUT ST	5/16/2009 17:35	09	D	11. Clothing Store
2009-06-025476	612 - Theft: over$200: Retail Theft	1300 BLOCK MARKET ST	5/16/2009 15:58	06	J	12. Department Store
2009-09-022744	612 - Theft: over$200: Retail Theft	1700 BLOCK CHESTNUT ST	5/15/2009 10:37	09	H	29. Retail Store (Other)
2009-06-024796	622 - Theft: $50-200: Retail Theft	1000 BLOCK MARKET ST	5/13/2009 15:58	06	I	29. Retail Store (Other)
2009-06-024630	612 - Theft: over$200: Retail Theft	1300 BLOCK MARKET ST	5/12/2009 20:33	06	J	29. Retail Store (Other)
2009-06-024610	622 - Theft: $50-200: Retail Theft	1300 BLOCK MARKET ST	5/12/2009 18:33	06	J	29. Retail Store (Other)
2009-06-024609	612 - Theft: over$200: Retail Theft	1300 BLOCK MARKET ST	5/12/2009 18:33	06	J	29. Retail Store (Other)
2009-06-024608	612 - Theft: over$200: Retail Theft	1300 BLOCK MARKET ST	5/12/2009 18:08	06	J	29. Retail Store (Other)
2009-06-024591	622 - Theft: $50-200: Retail Theft	1000 BLOCK MARKET ST	5/12/2009 16:52	06	I	29. Retail Store (Other)

ppdonline.org | Philadelphia Police Department
honor - integrity - service

Headquarters

- Mission Statement
- Ethical Principles
- Counter-Terrorism
- Department History
- Commend an Officer
- Report Misconduct
- Crime Statistics
- Executive Profiles
- Press Room
- CompStat Process
- FAQ
- Contact Directory
- Download Center
- Selected Resources



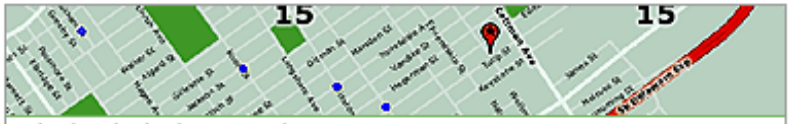
Frequent Destinations

22ND ANNUAL IRISH PUB TOUR DE SHORE

Sunday, July 26, 2009

More Information or to Register

Benefits Philadelphia Police Charities.



Philadelphia Police Crime Maps NEW! BETA RELEASE

This is the initial 'beta' release of this application.
Please use the feedback link to report any problems you encounter and to share your experiences so we can further refine and improve the crime mapping application.

Philadelphia Police Department's Crime Fighting Strategy

PHILADELPHIA POLICE TIPLINE

ANY TIP. ANY TIME. 215.686.TIPS

ABANDONED AUTOS - NARCOTICS HOTLINE - WANTED PERSONS - TIPS

CURFEW VIOLATIONS

PHILADELPHIA CODE §10-300 Download Poster

Terrorism Threat Advisory

ELEVATED RISK OF TERRORIST ATTACK

ELEVATED

- Send Terrorism Tip
- Homeland Security Bureau
- Philadelphia Emergency Plan

Murder Statistics

May 29, 2009

As of 11:59 PM Previous Day

2009	2008
113	126

-10.32%

Murders Last 24 Hours: 0

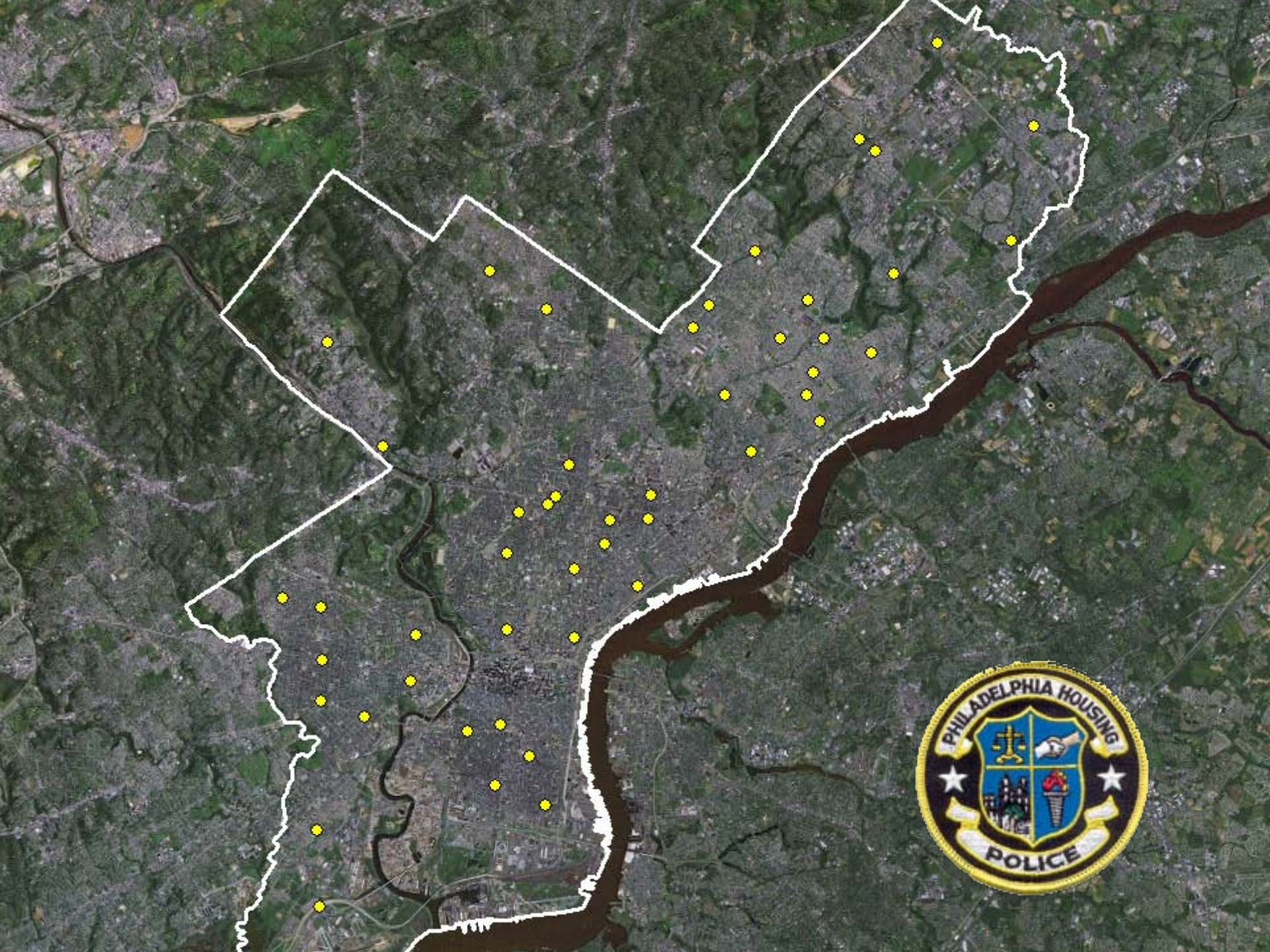
- Most Wanted Fugitives
- Violent Felon Digest
- Bank Robbery Digest

MEGAN'S LAW

PENNSYLVANIA SEX OFFENDER REGISTRY

Philadelphia Megan's Law Fugitive Digest

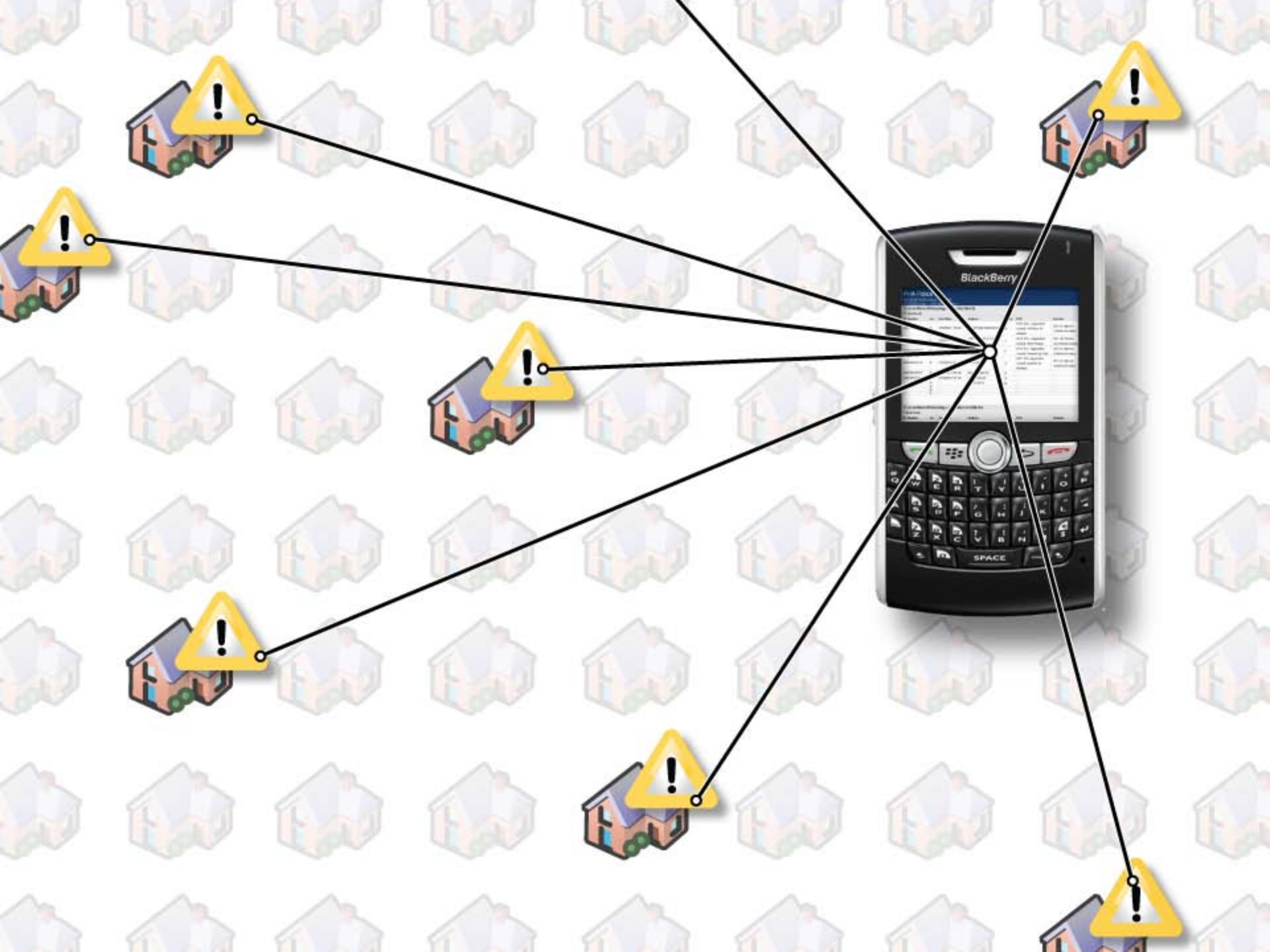
PENNSYLVANIA STATE POLICE


PHILADELPHIA HOUSING
POLICE

Philadelphia Housing Authority Police

Arrest Notification Extension

- Notify Executive staff
- Only PHA Properties
- Manage dynamic PHA properties data


BlackBerry
SPACE

GIS Implementations in Law Enforcement

Sean McGinnis
smcginnis@avencia.com
www.avencia.com

MUNICATER

Phil DAgostino

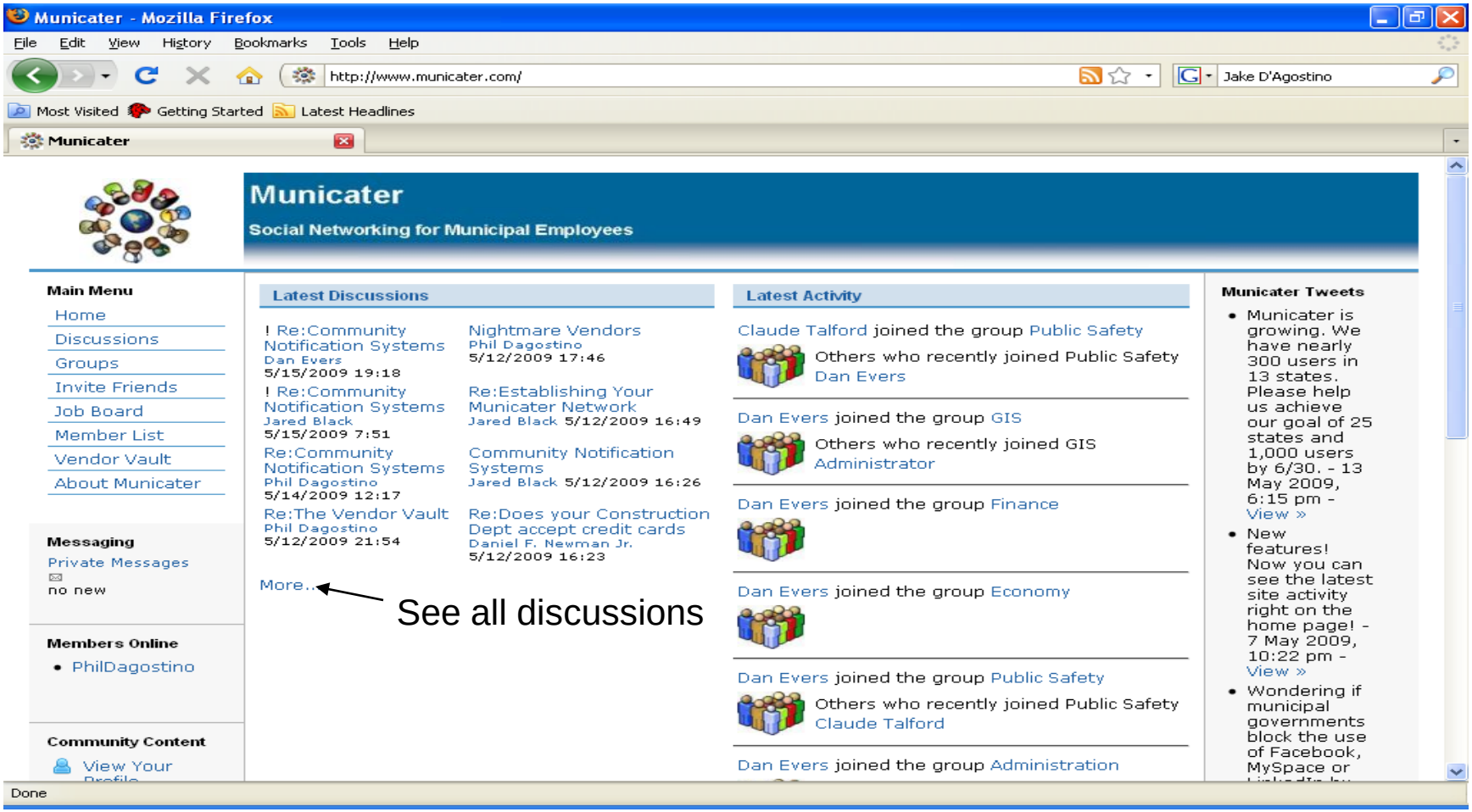
Municater

Social Networking for Municipal Employees

NJGF Meeting - June 5th

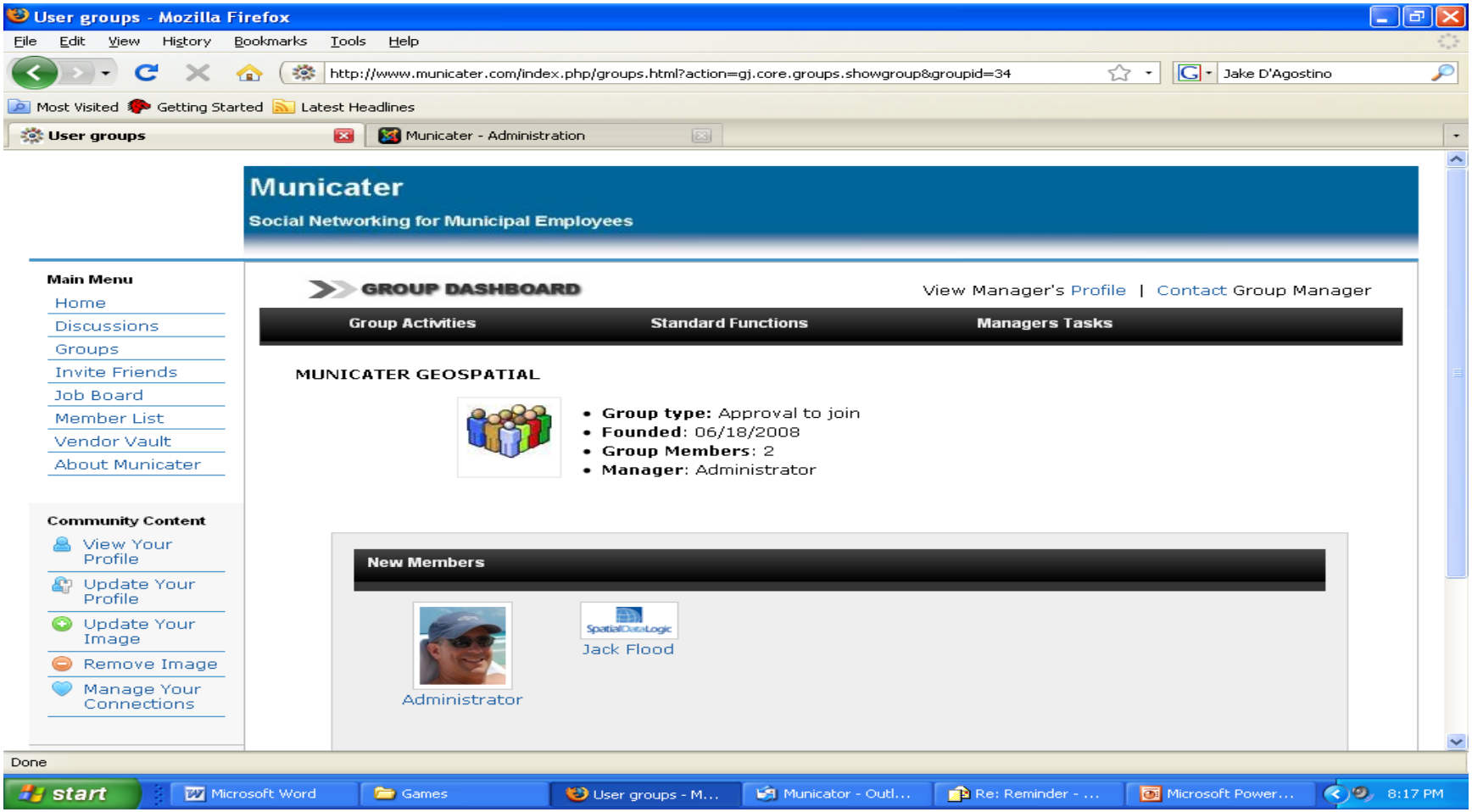
Phil D'Agostino
www.Municater.com
PhilDago@comcast.net
(908)240-0408 Mobile

Home page


Municater - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://www.municater.com/
Jake D'Agostino
Most Visited Getting Started Latest Headlines
Municater
Municater
Social Networking for Municipal Employees
Main Menu
Home
Discussions
Groups
Invite Friends
Job Board
Member List
Vendor Vault
About Municater
Messaging
Private Messages
no new
Members Online
PhilDagostino
Community Content
View Your
Latest Discussions
! Re:Community Notification Systems
Dan Evers
5/15/2009 19:18
! Re:Community Notification Systems
Jared Black
5/15/2009 7:51
Re:Community Notification Systems
Phil Dagostino
5/14/2009 12:17
Re:The Vendor Vault
Phil Dagostino
5/12/2009 21:54
Nightmare Vendors
Phil Dagostino
5/12/2009 17:46
Re:Establishing Your Municater Network
Jared Black 5/12/2009 16:49
Community Notification Systems
Jared Black 5/12/2009 16:26
Re:Does your Construction Dept accept credit cards
Daniel F. Newman Jr.
5/12/2009 16:23
More..
See all discussions
Latest Activity
Claude Talford joined the group Public Safety
Others who recently joined Public Safety
Dan Evers
Dan Evers joined the group GIS
Others who recently joined GIS
Administrator
Dan Evers joined the group Finance
Dan Evers joined the group Economy
Dan Evers joined the group Public Safety
Others who recently joined Public Safety
Claude Talford
Dan Evers joined the group Administration
Municater Tweets
Municater is growing. We have nearly 300 users in 13 states. Please help us achieve our goal of 25 states and 1,000 users by 6/30. - 13 May 2009, 6:15 pm - View »
New features! Now you can see the latest site activity right on the home page! - 7 May 2009, 10:22 pm - View »
Wondering if municipal governments block the use of Facebook, MySpace or
Done

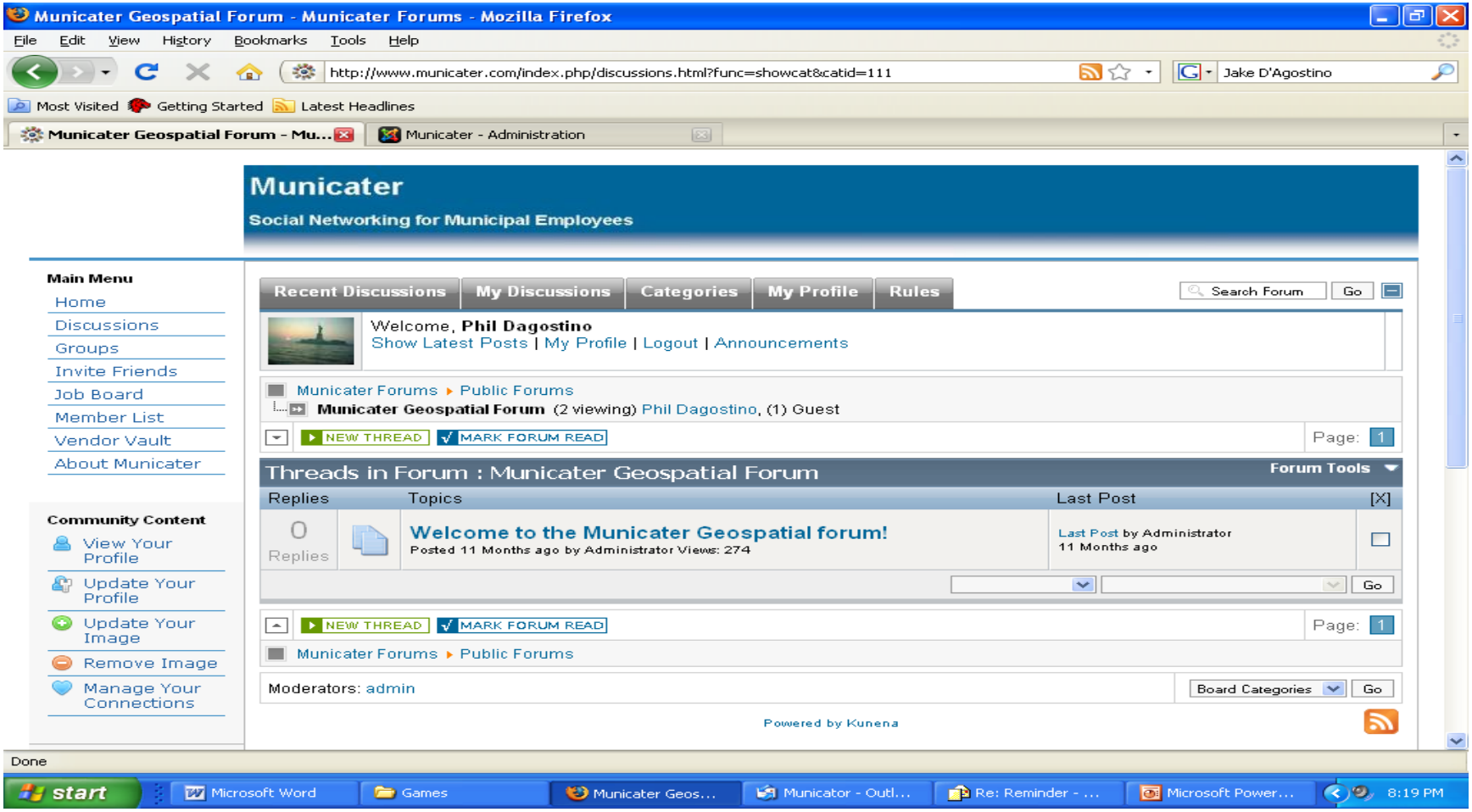
Groups (Municater Geospatial)

This is a group that can be used by all members of the NJ Geospatial Forum. It is currently set up as a public group but can be made private for members only.



Discussion Boards

Email = telephone, 1 to 1 or 1 to many
Blogs = lectures
Discussion boards = cocktail party



ENVIRONMENTAL ANALYSIS USING PHYTOTECHNOLOGY

Sara Ellen Taylor

Roux Associates Inc.

Environmental Analysis using Phytotechnology

Superfund Site

Logan Township, New Jersey

Superfund Site

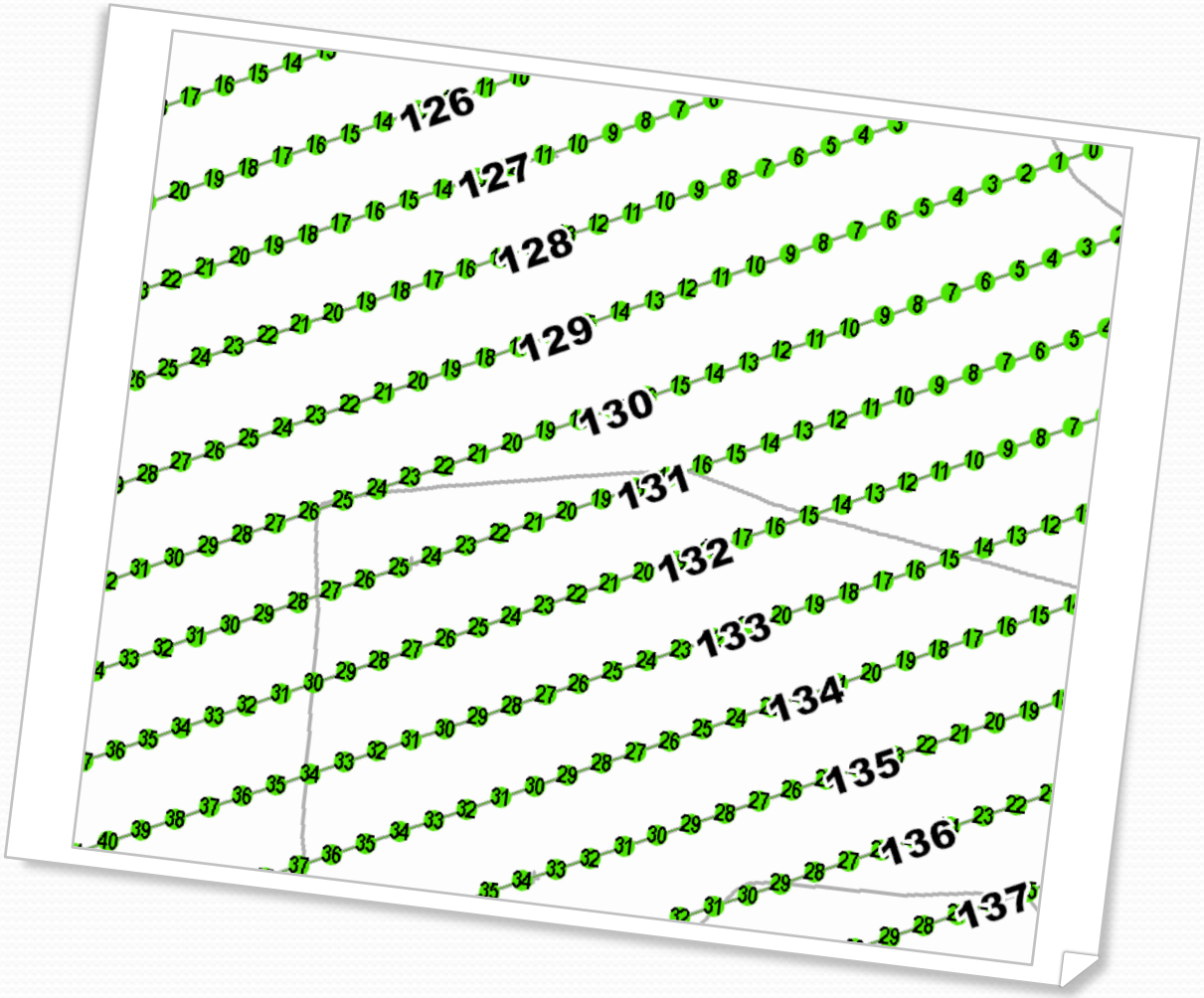
GLOUCESTER COUNTY,
NEW JERSEY
EPA REGION 2
CONGRESSIONAL DIST. 01

Phytoremediation

- Phytoremediation is the use of plants to remediate contamination by the uptake (transpiration) of contaminated water by plants. Plants can be used to contain, remove, or degrade contaminants. (http://toxics.usgs.gov/definitions/phytoremediation.html)
- A densely planted stand of trees will regulate water infiltration and evapotranspiration, and promote nutrient movement and biological activity in the subsurface. This will support the biodegradation of site-related chemicals of concern (COCs) in soil and shallow groundwater. (http://www.epa.gov/superfund/sites/rods/fulltext/r20060200001431.pdf)
- Site specifically, the Hybrid Poplars evapotranspire at a higher than usual rate. This species was chosen to keep as much water out of the contamination zone as possible to prevent further spreading of the plume. The degradation aspect in this particular case is minimal as in most cases the plume is well below the rooting zone. Without phtyoremediation, the alternative would be to install a RCRA cap which is cost prohibitive.

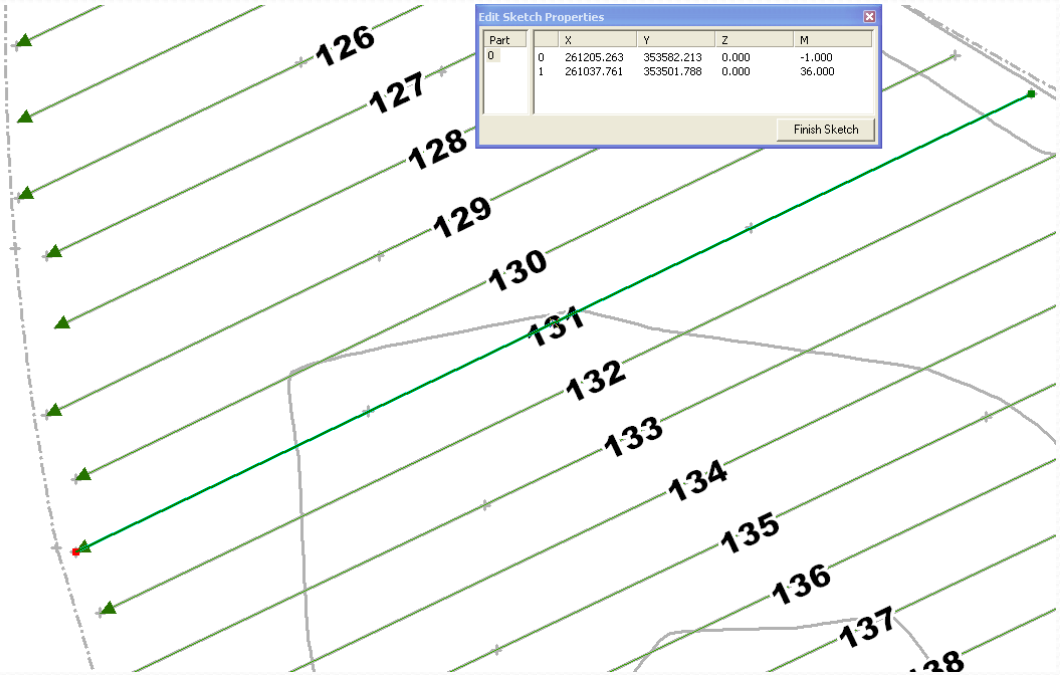
GIS Role

GIS was used to track the condition, diameter, and height of individual trees. Statistical analyses will be used to determine clusters of trees by condition. Analysis in 3D depicts the overall tree canopy. Further investigations will be completed using a subset of tree locations.



Delineation of Tree Rows

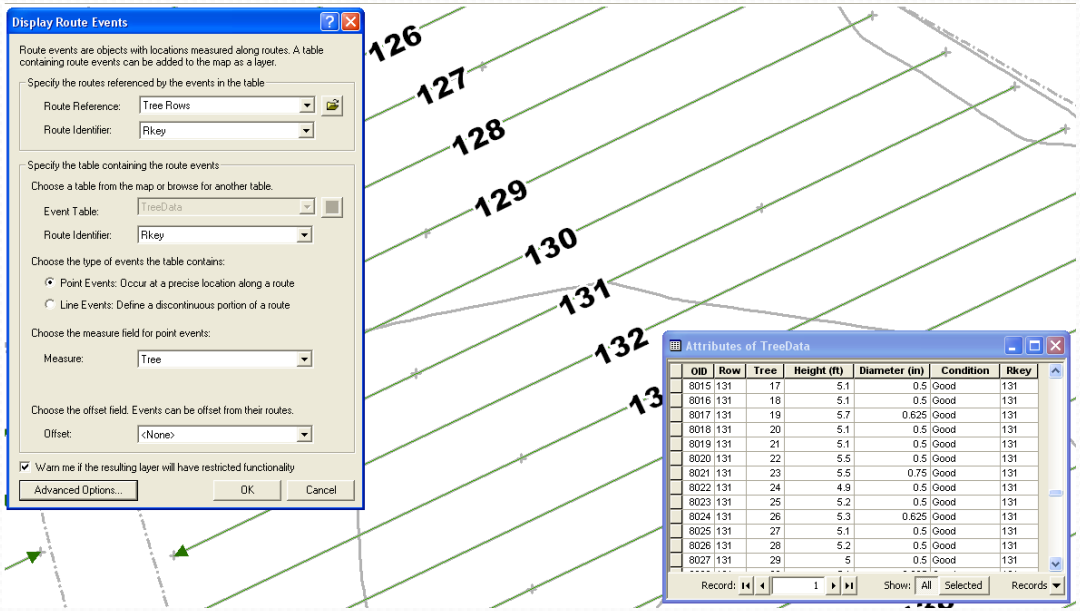
Tree Rows were surveyed and entered in using CAD software. These rows were then converted to polylines in ArcGIS 9. Each row was matched to the directionality off the tree locations. The measure of each line was converted to match the exact number and naming of the trees in the Row. For example, Row 131 was delineated from northeast to southwest and the trees were numbered from -1 through 36. The M values were assigned starting at -1 and ending at 36.

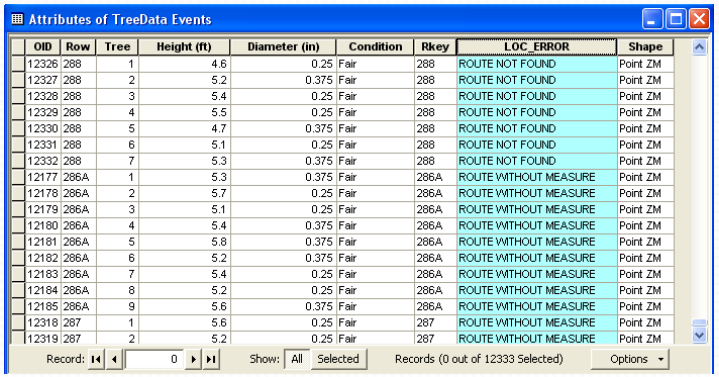


Tree Locations

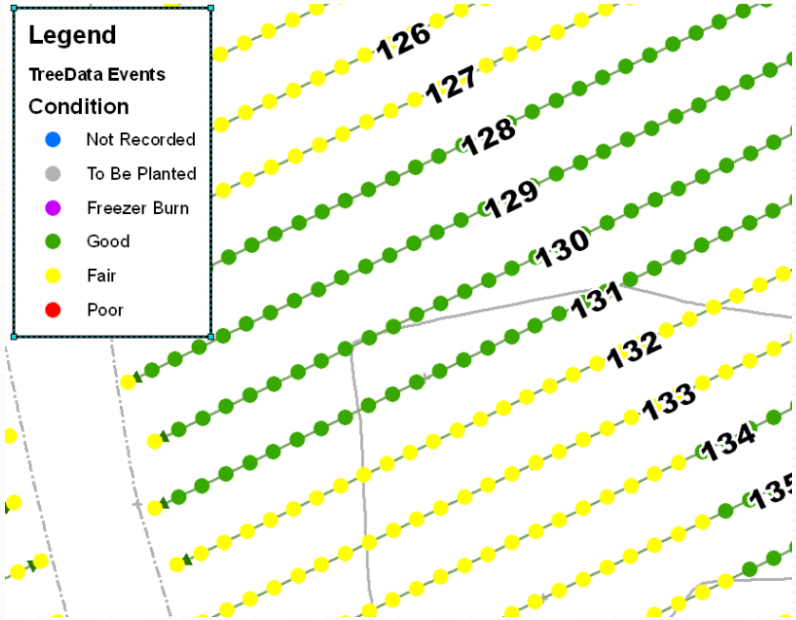
Each tree was field surveyed for height, diameter, and condition. This data was entered in Microsoft Excel and linked using ArcGIS 9. Each tree location was defined using a row key and tree identifier. Using Add Route Events, the trees were added to each row based on the tree's numeric value, as if it were a measure of the line segment.

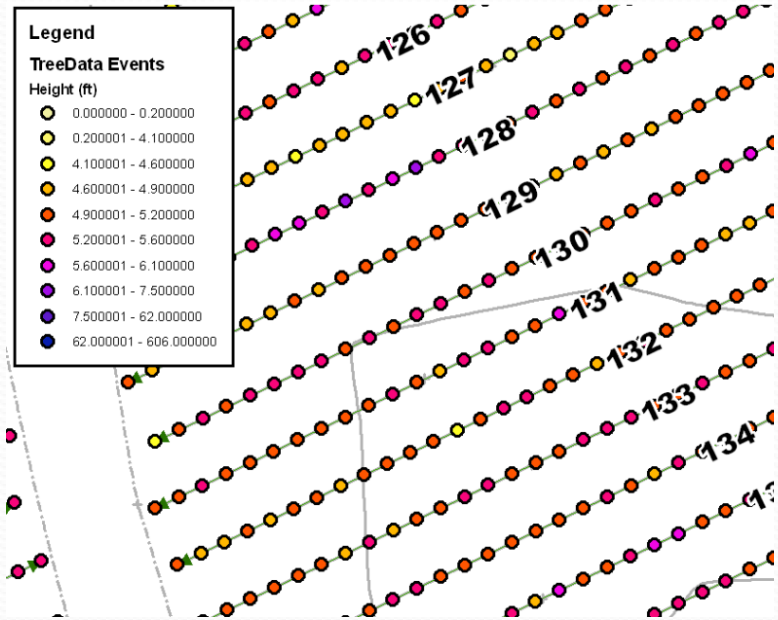
The Error function under advanced options was used to locate tree locations that were not mapped. These initial match rate was recorded at 95%. Errors were resolved using field surveys to determine the location of missing rows and visual data matching to determine where M values were inputted incorrectly.





Tree Locations by Height and Condition at Installation

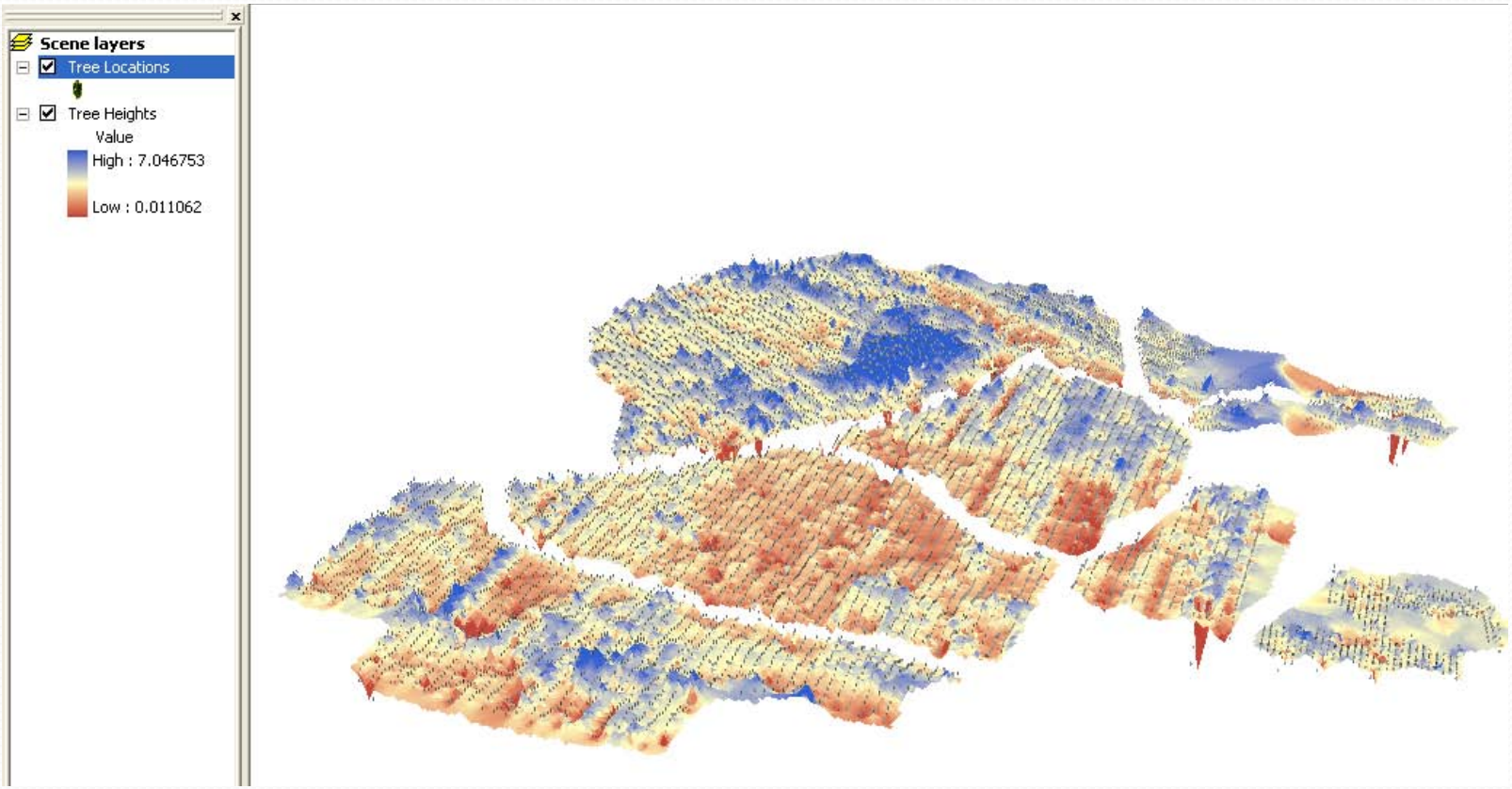




Graphically, the trees were shown at their initial condition and height during installation. This provides a baseline health status which will be used for comparison at a later date.

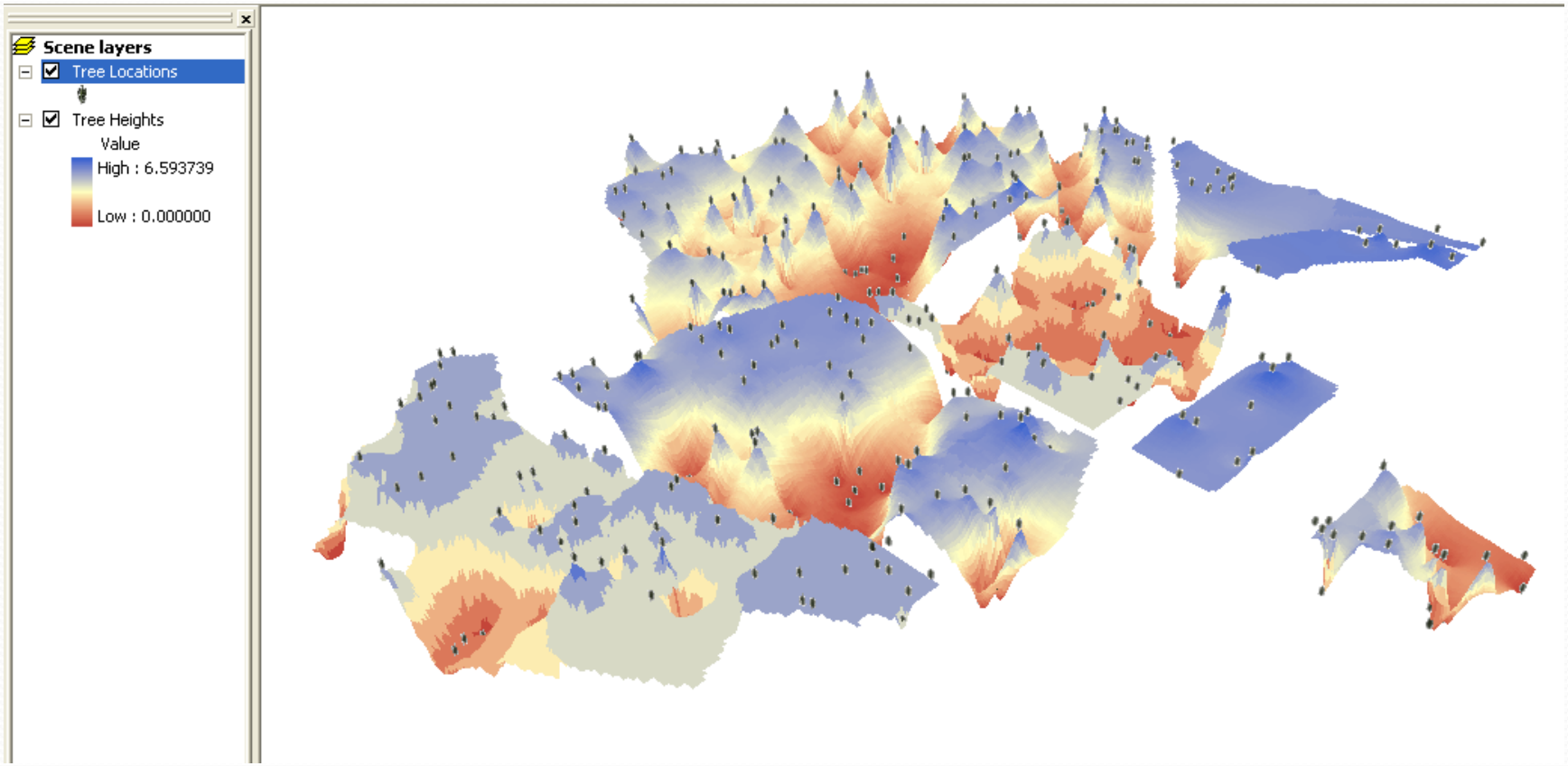
Tree Heights in 3D

The trees were divided into seven sections on site. Each of these sections was converted to a raster format using spatial analyst's interpolation through inverse distance weighting. These rasterized sections were then combined using raster mosaic to complete a consistent raster view of the heights.



First Inspection May 2009

A subset of 387 trees were inspected in May of 2009. These values were analyzed using the same criteria as the initial inspection. Subsequent monthly inspections are intended to depict the health of the trees over time.



USING GIS IN THE REAL WORLD

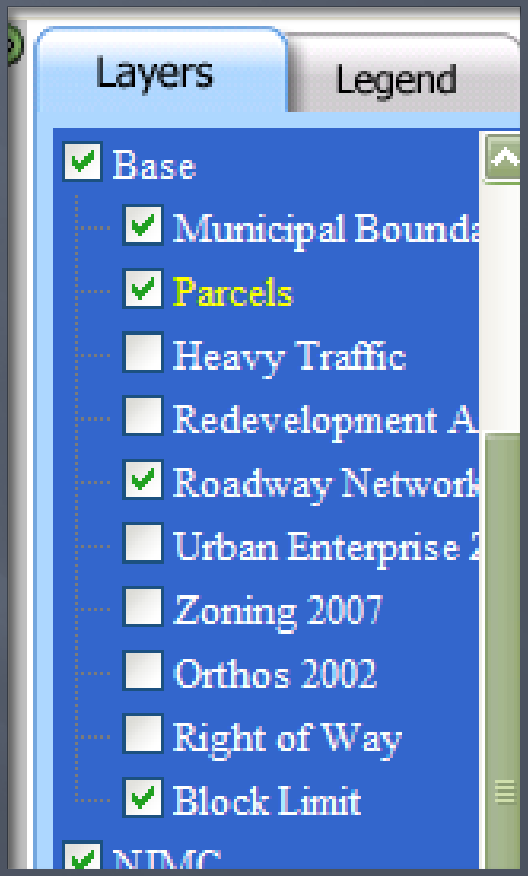
Karen Mitchell
Civil Solutions

USING GIS IN THE REAL WORLD

Leveraging the Investment

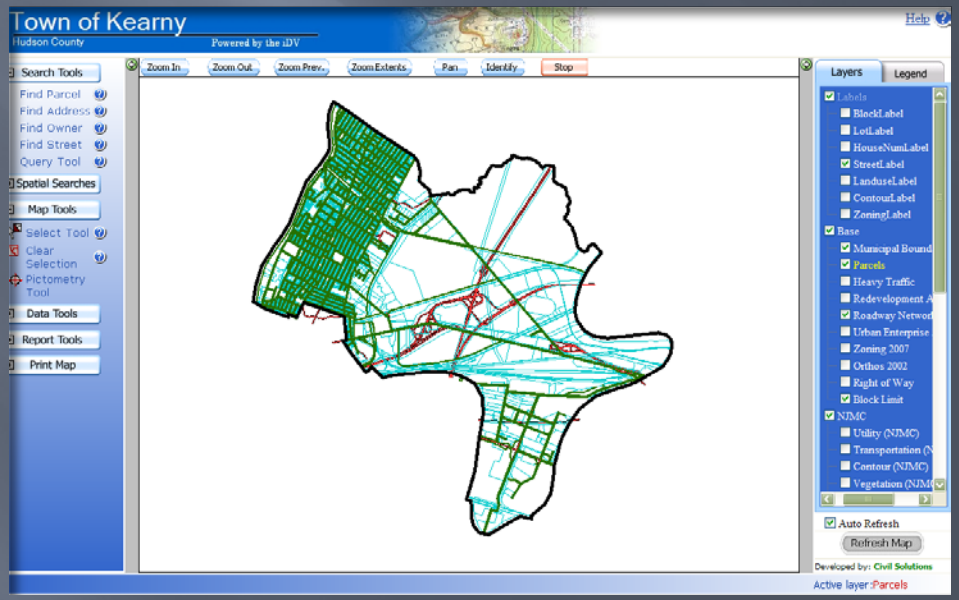
Town of Kearny

- Created Base Map
  - Streets, Zoning, Hydro, etc.
  - Digital tax maps
  - Integrated Tax Assessor data



Maximize Use

- GIS data published to internet
  - Password Secured
  - Internal and general public versions

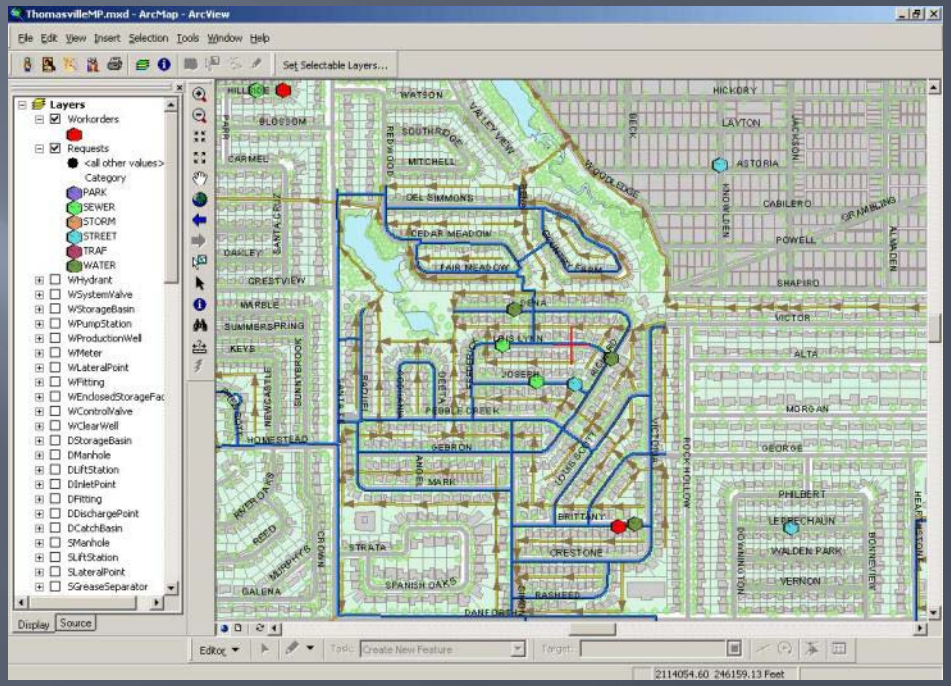


Extend the Base Map

- Water & Sewer system assets
  - Mains, Curb boxes, Manholes, Storm drains
- DPW assets
  - Signs, Parking Meters, Inlets
  - Garbage & Recycling zones

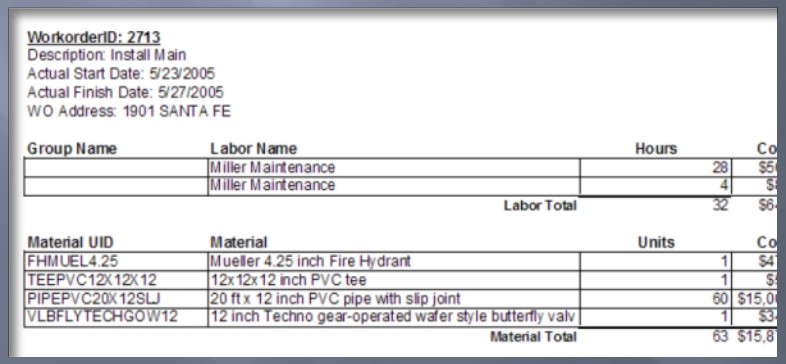
View work orders on the map

- Cityworks Software
  - Edited GIS to fit Cityworks data model
  - Set up control database
    - separate domains for DPW & Water
    - permissions based on roles



Single Source for Info

- Electronic work order tracking
  - History of repairs/calls by:
    - Asset, Address, Caller, etc.
  - Automated reporting



WorkorderID: 2713
Description: Install Main
Actual Start Date: 5/23/2005
Actual Finish Date: 5/27/2005
WO Address: 1901 SANTA FE

Group Name	Labor Name	Hours	Co
	Miller Maintenance	28	$5
	Miller Maintenance	4	$
	Labor Total	32	$6

Material UID	Material	Units	Co
FHMUEL4.25	Mueller 4.25 inch Fire Hydrant	1	$4
TEEPVC12X12X12	12x12x12 inch PVC tee	1	$
PIPEPVC20X12SLJ	20 ft x 12 inch PVC pipe with slip joint	60	$15,0
VLBFLYTECHGOW12	12 inch Techno gear-operated wafer style butterfly valv	1	$3
	Material Total	63	$15,8

Enhance preventive maintenance

- **Visualize "hot spots"**
  - **Avoid problems**

NEW JERSEY DEPARTMENT OF TRANSPORTATION 2009 STRAIGHT LINE DIAGRAMS CD-ROM

Justin Furch
Project Manager
Michael Baker Corporation

Straight Line Diagrams

More then just a Diagram!

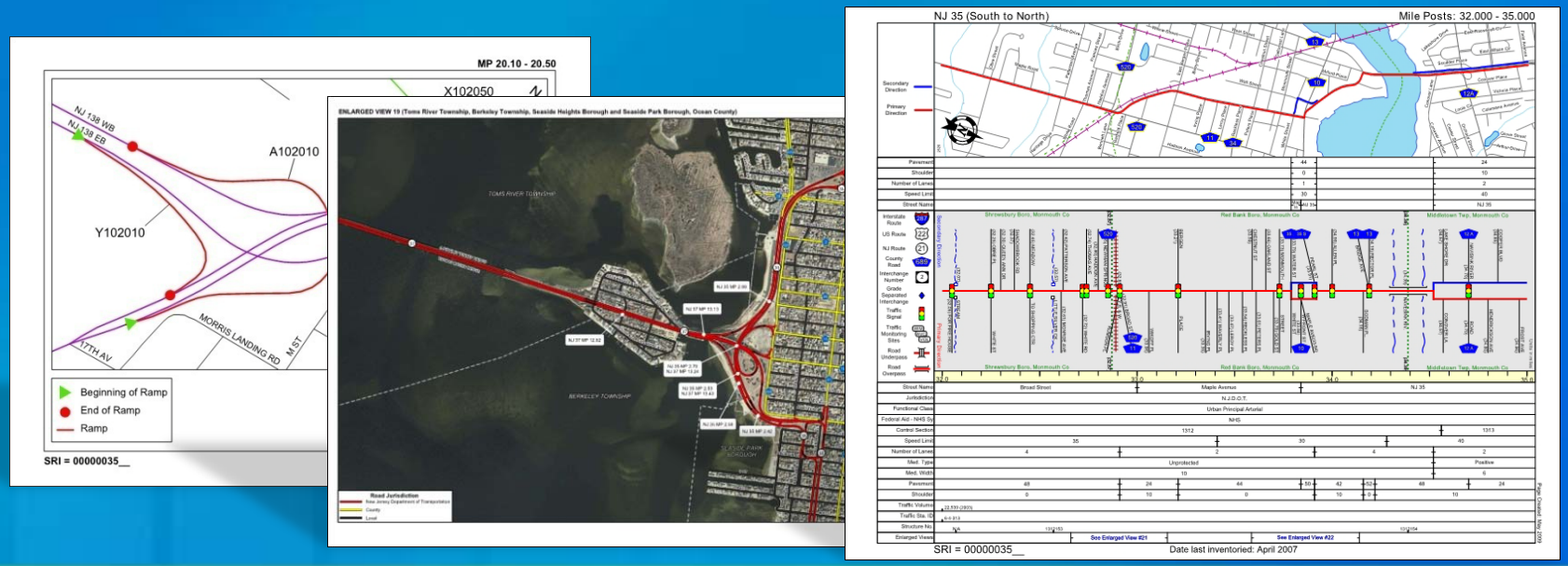
New Jersey Department of Transportation 2009 Straight Line Diagrams CD-ROM

Justin Furch
Project Manager
Michael Baker Corporation

Baker

Introduction

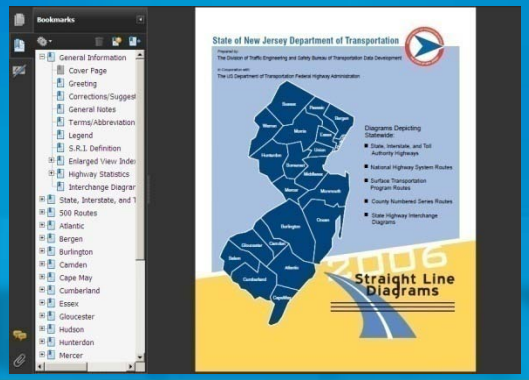
- NJDOT Planning tool for roadway reference
- Includes roadway diagrams, interchange diagrams, and enlarged views for:
  - State, Interstate, and Toll Routes
  - 500 Series and County Routes

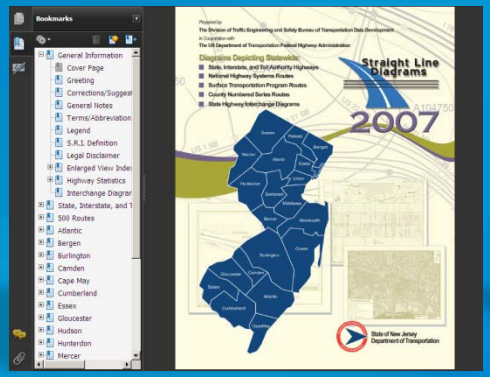


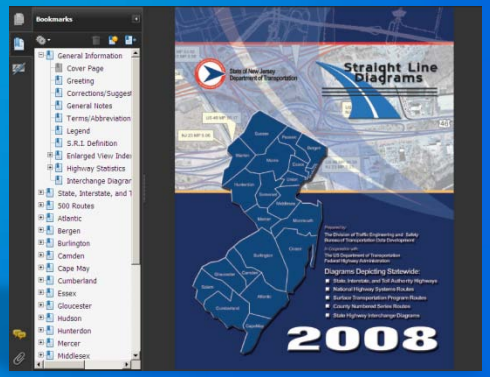
The past eleven years…

Goals for 2009…

- Retain the existing “look” and “feel” of previous years
- Extend user awareness of enlarged views and interchange diagrams
- Develop a means for users to locate route information using common criteria…
- Develop a frame work for the future…





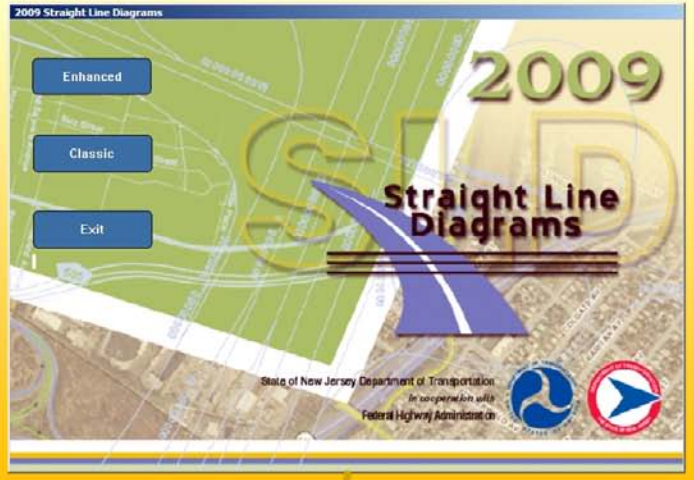


The Challenges…

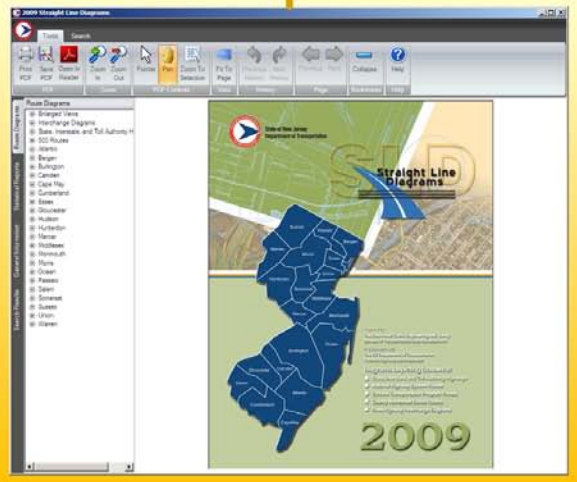
- Build a custom application that can run from a CD-ROM
- Develop search capabilities that provide results in a timely manor
- Display pdf format Straight Line Diagrams in a custom application
- Develop, test, and deploy in less then 3 months

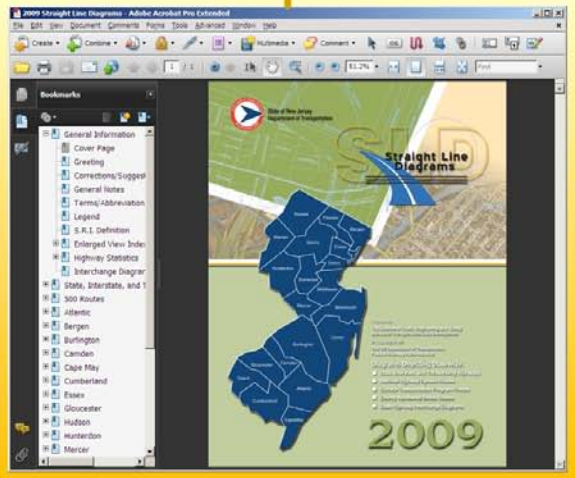
The Solution…

Application Launch



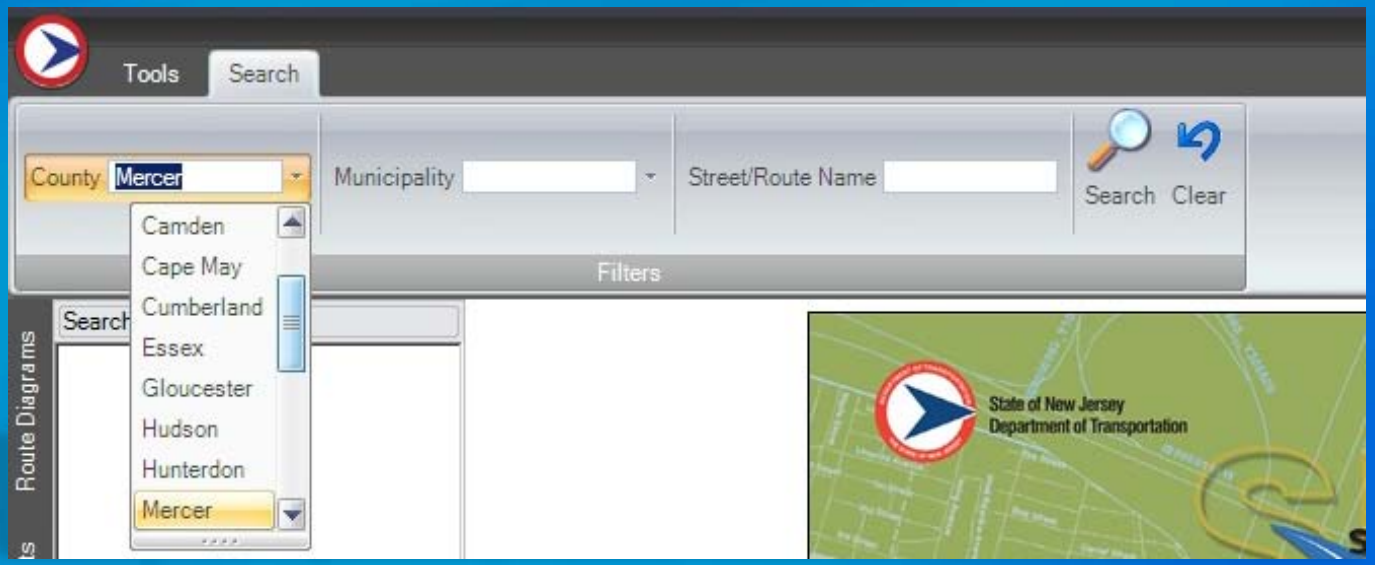
Enhanced or Classic





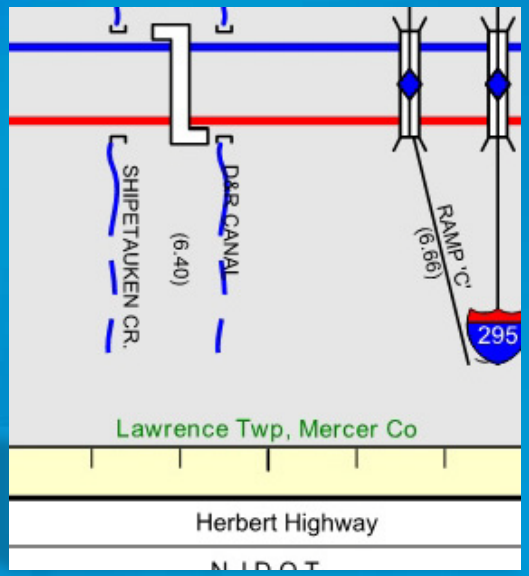
Enhanced Search Functionality

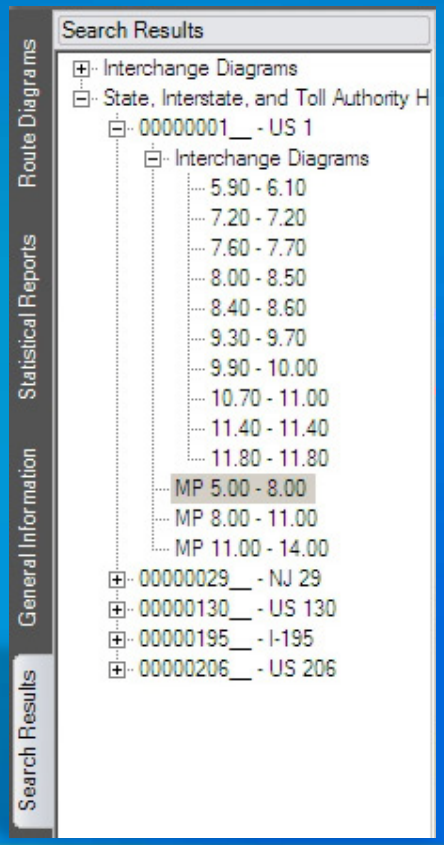
- Search by any combination of:
  - County
  - Municipality
  - Street Name



Search Results…

- Shows results in a familiar format
- Searches for routes, ramps, and enlarged views relating to search criteria

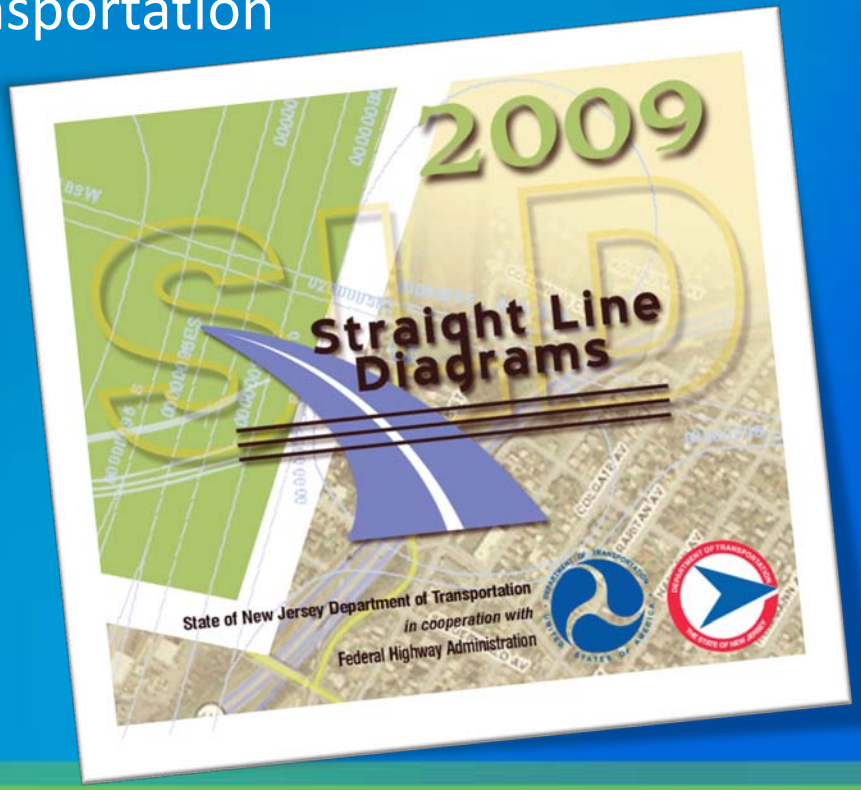




2009 NJDOT Straight Line Diagrams CD-ROM

- Available mid-June, 2009
- Please direct inquires to:

Donald Perry
Bureau of Transportation Data Development
New Jersey Department of Transportation
(609) 530-2945
don.perry@dot.state.nj.us



Questions?...

Baker

Justin Furch
Project Manager

Michael Baker Jr., Inc.
300 American Metro Boulevard
Hamilton, New Jersey 08619
www.mbakercorp.com

Main: 609.807.9500
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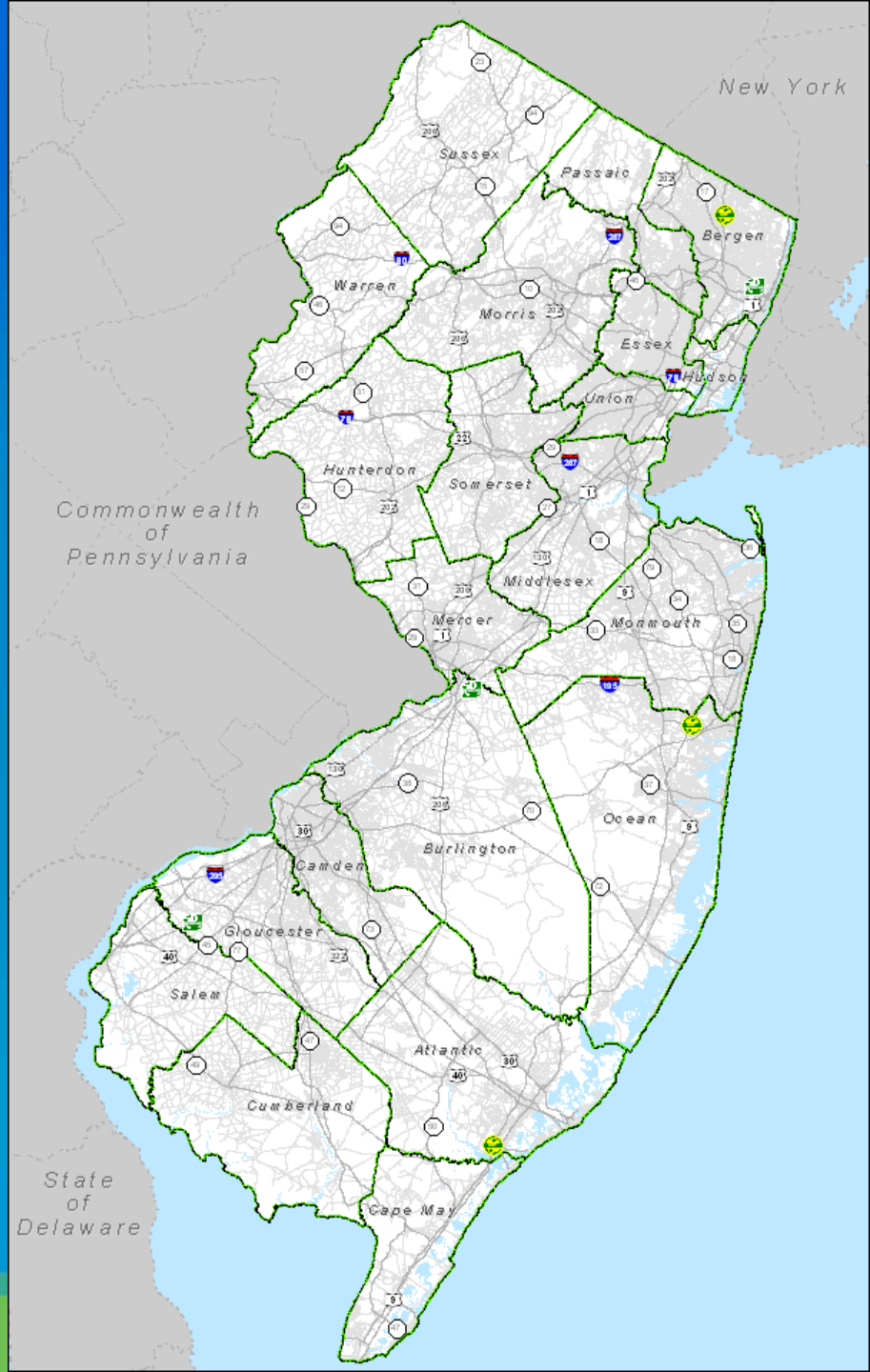
NEW JERSEY ROAD INVENTORY Video Log Application

Caitlin E. Giblin
GIS Associate
Michael Baker Jr., Inc.

New Jersey Road Inventory Video Log Application

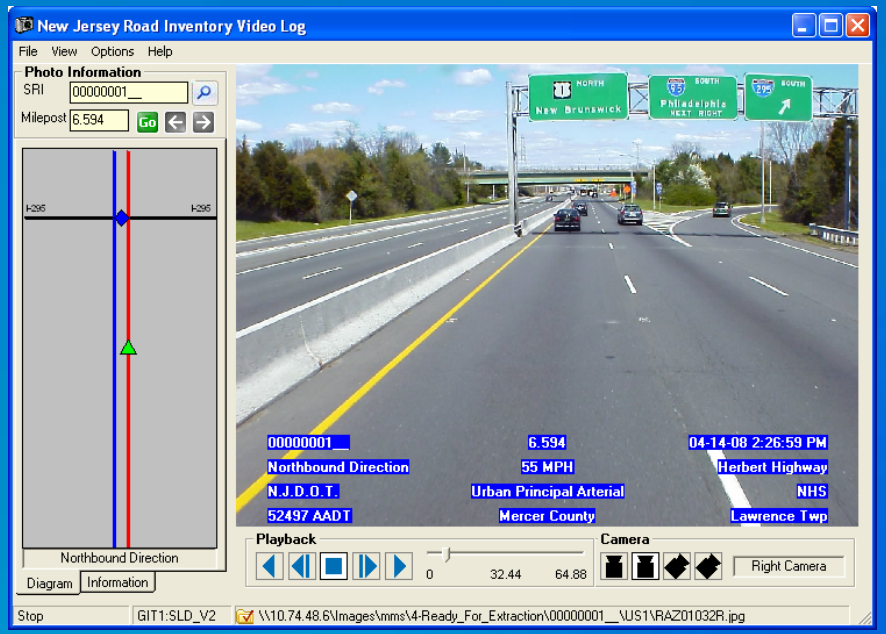
Caitlin E. Giblin
GIS Associate
Michael Baker Jr., Inc.



Baker

What is the Video Log?

- Inventory Quality Photos
- Data Validation
- Straight Line Diagrams

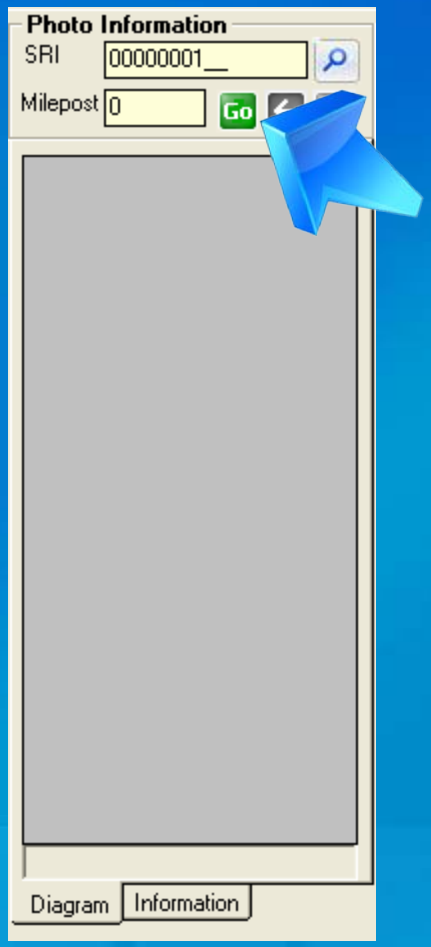


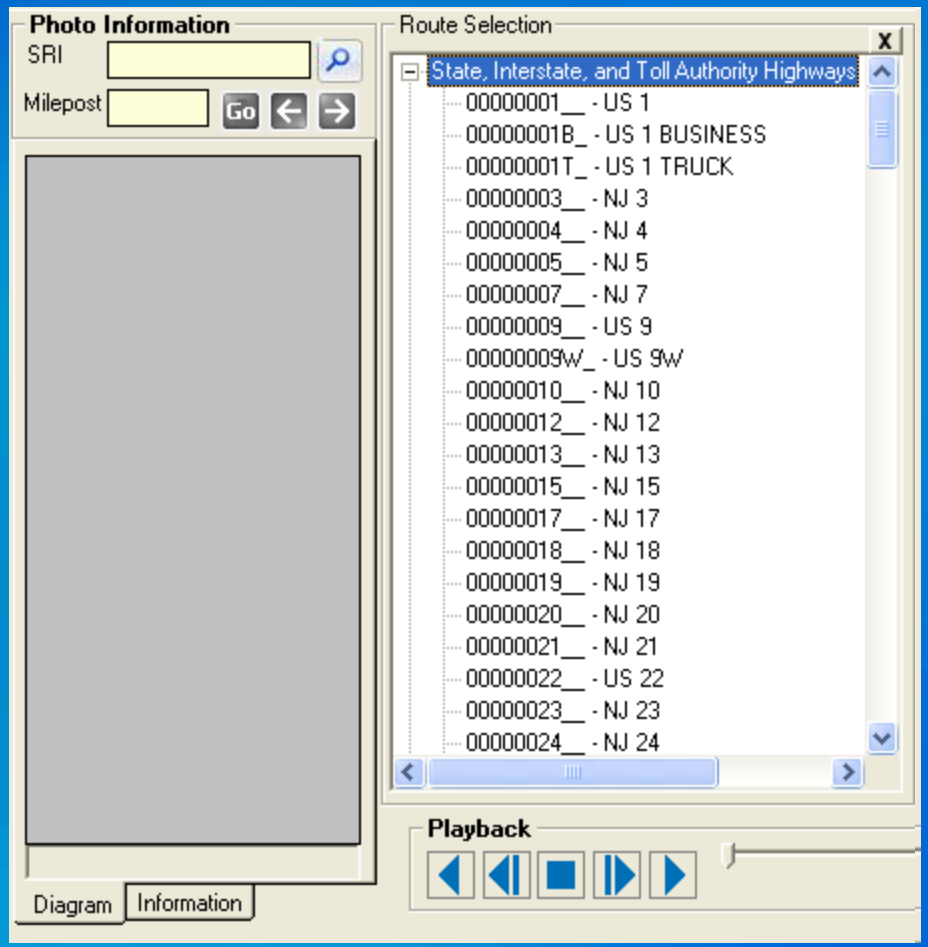
Navigating the Video Log

- Route Selection Methods
- Playback and Camera Angles
- Straight Line Diagrams
  - Intersecting Routes
  - Direction
- Ramp Images/Diagrams

Navigating the Video Log

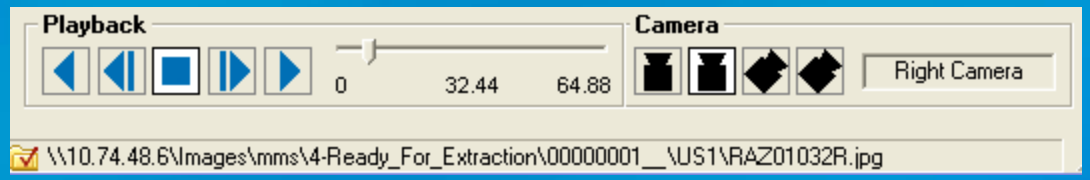
- Route Selection Methods





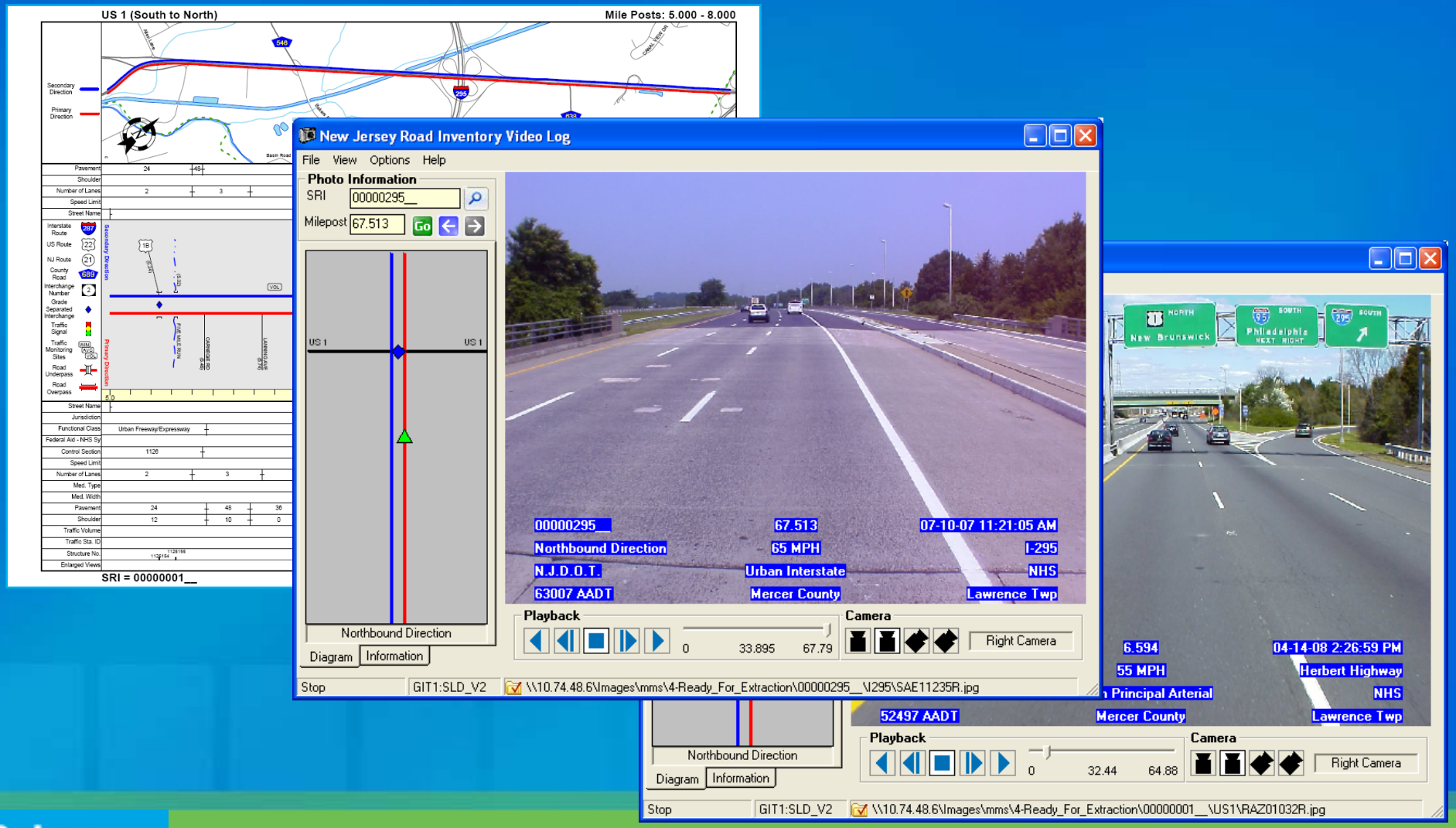
Navigating the Video Log

- Playback
  - Play Backward
  - Skip Backward
  - Stop
  - Skip Forward
  - Play Forward
- Camera Angles
  - Left Camera
  - Right Camera
  - Shoulder Camera 1
  - Shoulder Camera 2



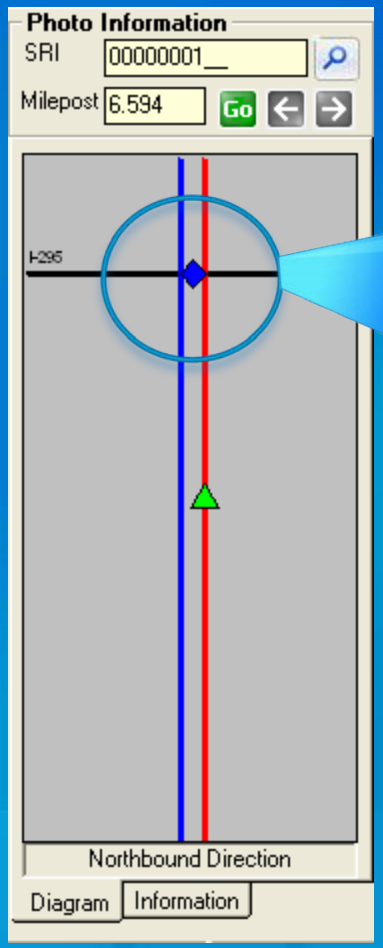
Navigating the Video Log

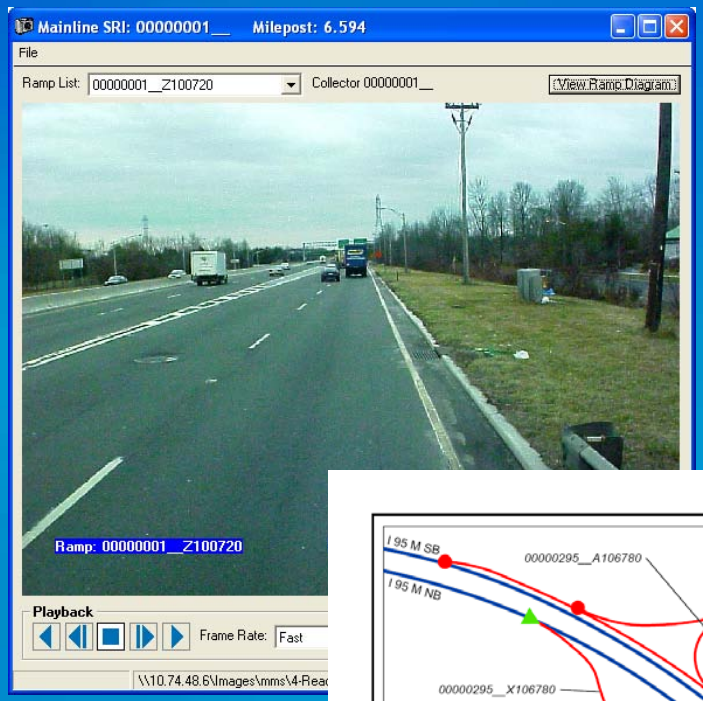
- Straight Line Diagrams

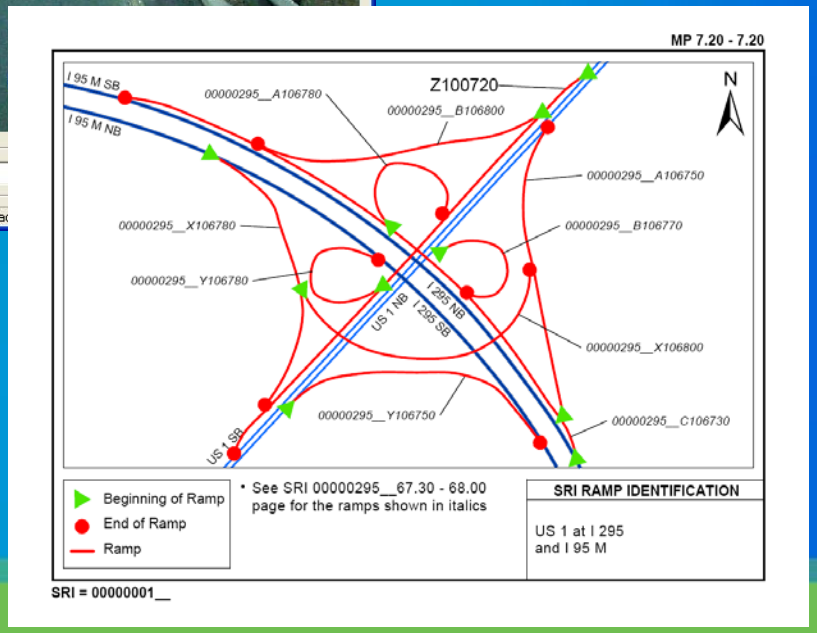


Navigating the Video Log

- Ramp Images/Diagrams

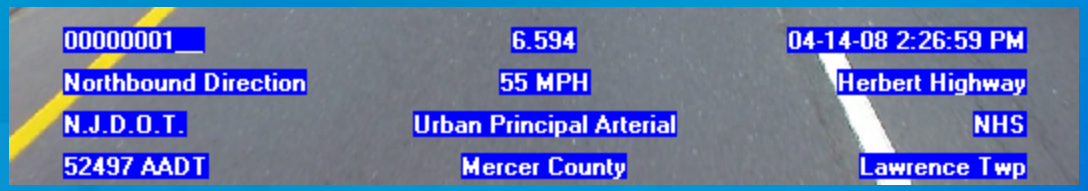






Relevant and Useful Data

- Attribute Data
  - SRI
  - Direction
  - Jurisdiction
  - Milepost Location
  - Miles per Hour
  - Functional Class
  - County
  - Date and Time of Collection
  - Road Name
  - Federal Aid
  - Municipality



Questions?

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cgiblin@mbakercorp.com

PEDESTRIAN SAFETY MANAGEMENT SYSTEM

Bing Zhu

Software System Developer

Michael Baker Jr. Inc.

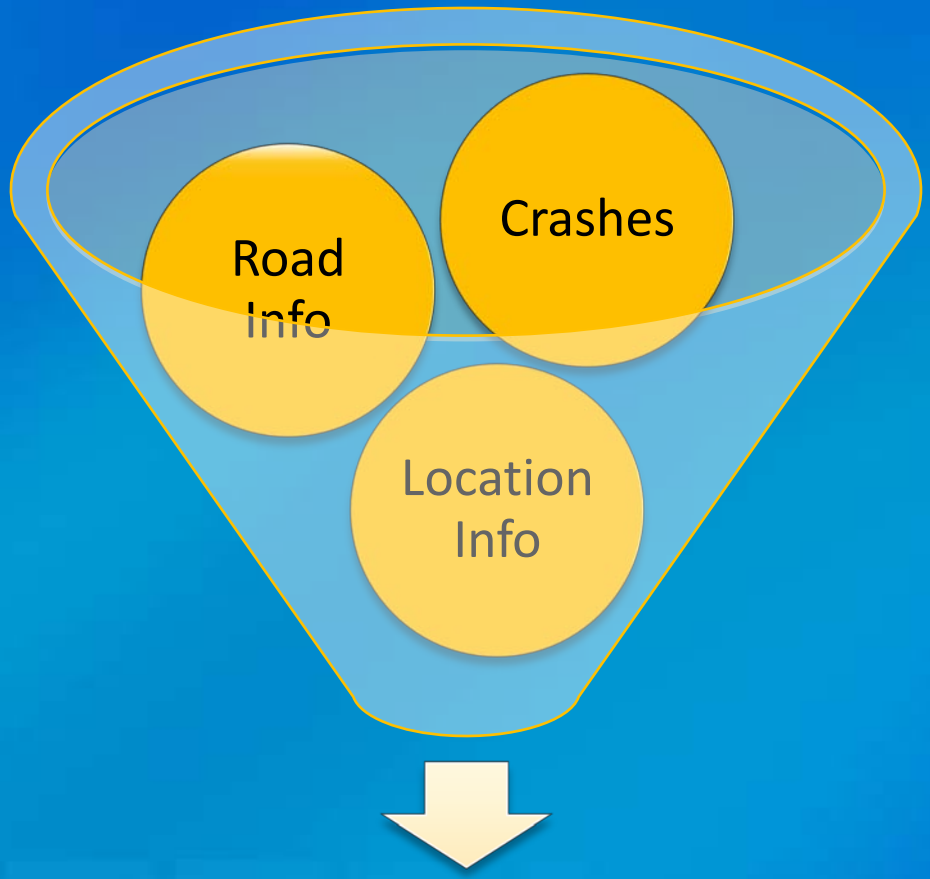
Pedestrian Safety Management System

A working prototype

Bing Zhu
Software System Developer
Michael Baker Jr. Inc.

Baker

The Challenge…



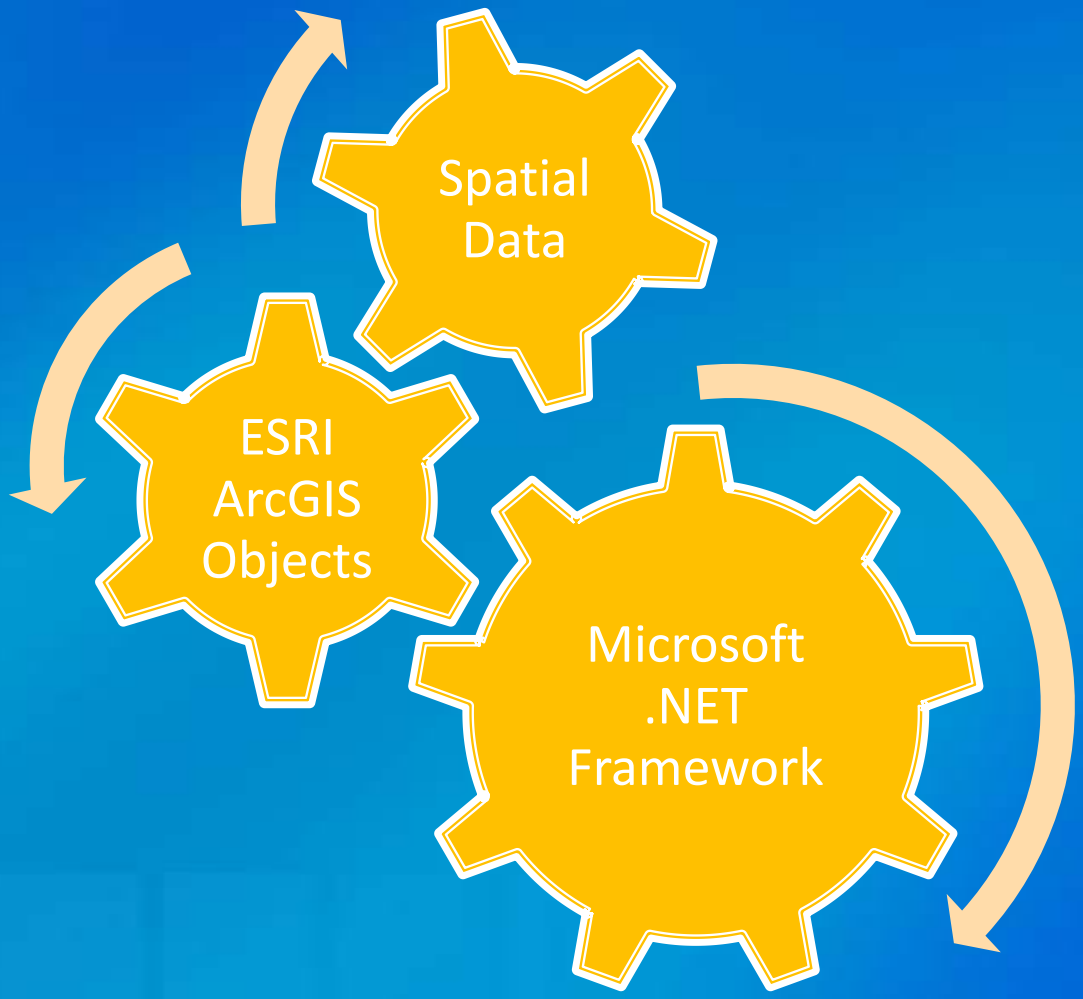
Prioritized Report

Criteria Development

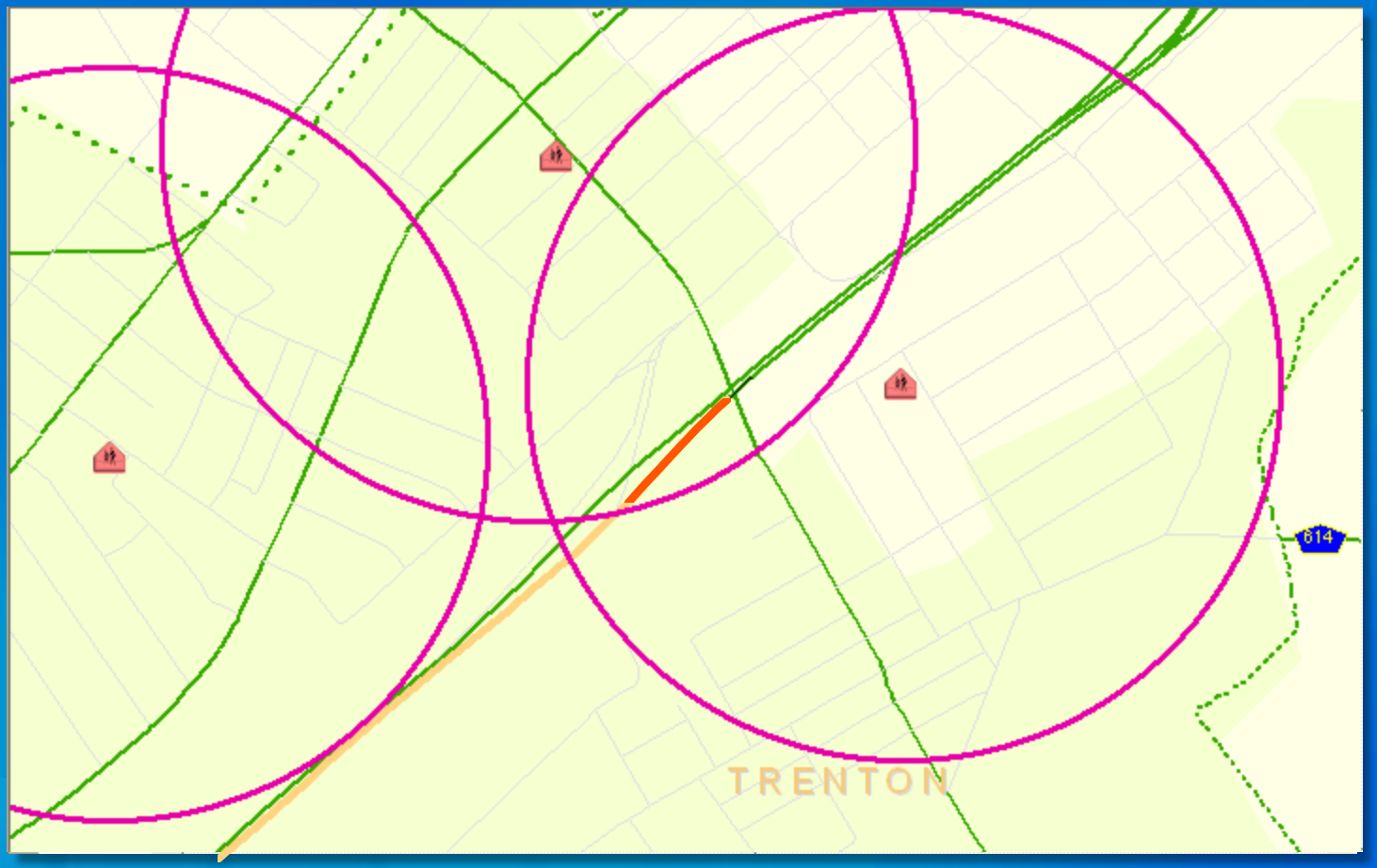
Example of the weighting criteria

Criteria	Points
One or more pedestrian fatalities in 3 years	10
25% or more of the households are without a Vehicle	10
Pedestrian facilities missing (intersections)	10
School within ½ mile	9
Parks/Recreation areas	5
Traffic Volumes over 10,000 AADT	5

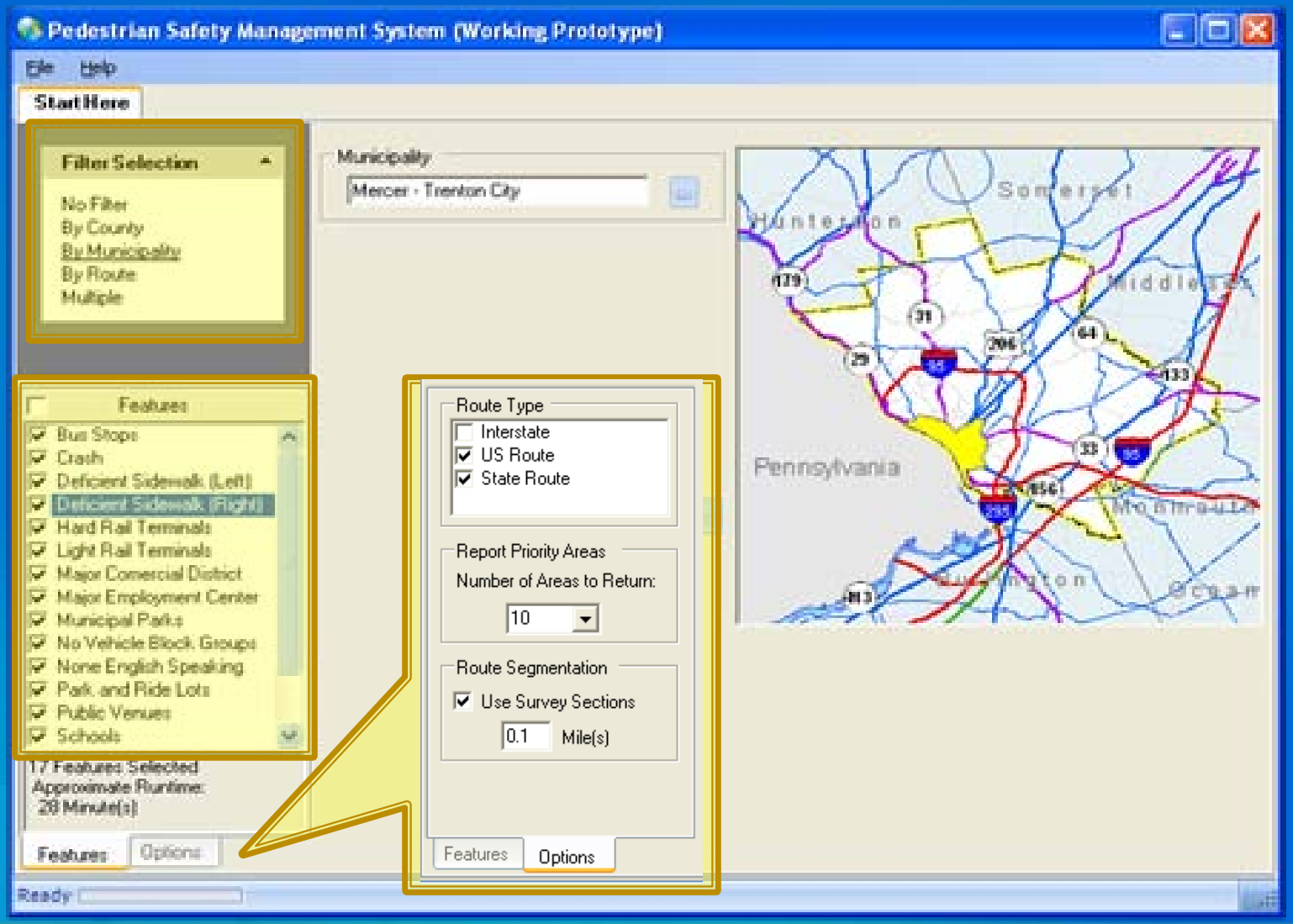
Baker's Approach



Spatial Analysis Engine



Application User Interface



Output Report

Pedestrian Safety Management System (Working Prototype)

File Help

Start Here | Report

Thumbnails | Outline

Page 1

Page 2

Page 3

76% 1 of 5

Analysis

County: *Mercer*
Municipality: *Mercer - Trenton City*
SRI: *00000029__ (1.77-6.93)*

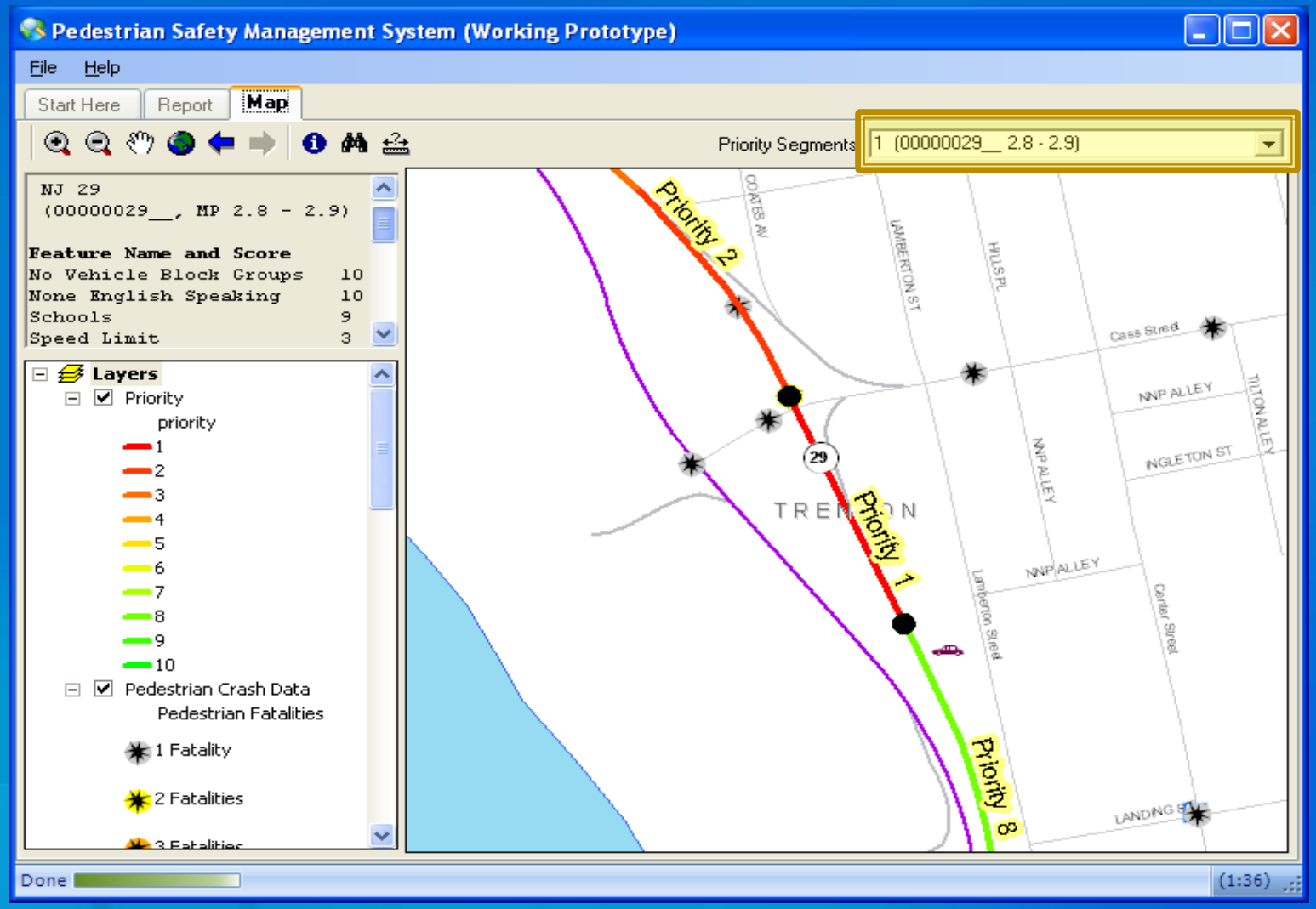
Priority	Score	Roadway	
1	93	NJ 29 (00000029__) - mileposts 2.8 to 2.9	View Map

10	1	No Vehicle Block Groups	One or more Census block groups with over 25% of the households without a vehicle
10	1	None English Speaking	One or more Census block groups with over 25% of the households are non-English speaking
9	4	Schools	One or more public schools located within a 0.5 mile distance.
3	45	Speed Limit	Speed range
5	1	Bus Stops	One or more bus stops within a 0.25 mile distance.
3	2	Crash	One or more pedestrian fatalities
10	Missing	Deficient Sidewalk (Left)	Missing or poor condition sidewalk.
10	Missing	Deficient Sidewalk (Right)	Missing or poor condition sidewalk.
5	1	Public Venues	One or more public venues within a 0.25 mile distance.
3	1	Park and Ride Lots	One or more NJ Transit park and ride lots within a 0.25 mile distance.
5	1	Senior Citizen Centers	One or more senior citizen centers within a 0.25 mile distance.
5	5	Major Comercial District	One or more major commercial districts within a 0.1 mile distance.
5	1	Major Employment Center	One or more major employment centers
5	42493	Traffic Volume	Traffic volume range
5	4	Municipal Parks	One or more municipal parks within a 0.1 mile distance.

Ready

Done (1:25)

Map presentation of the report



Thank you!

Bing Zhu
Software System Developer
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bzhu@mbakercorp.com

UPDATING THE STATE WILDFIRE HAZARD MAP

Anton Getz

Michael Baker Jr. Inc.

New Jersey Forest Fire Service:

Updating the State Wildfire Hazard Map

Anton Getz
GIS Associate
Michael Baker Jr. Inc.

Baker

June 5, 2009

Topics

- The New Jersey Forest Fire Service
- Updating the State Wildfire Hazard Map

- Modelbuilder
- GIS Data

- The Updated State Map

New Jersey Forest Fire Service

- NJFFS

  - Administered by the Division of Parks and Forestry, under the NJDEP.

  - Responsible for protecting life, property, and natural resources from wildfire.

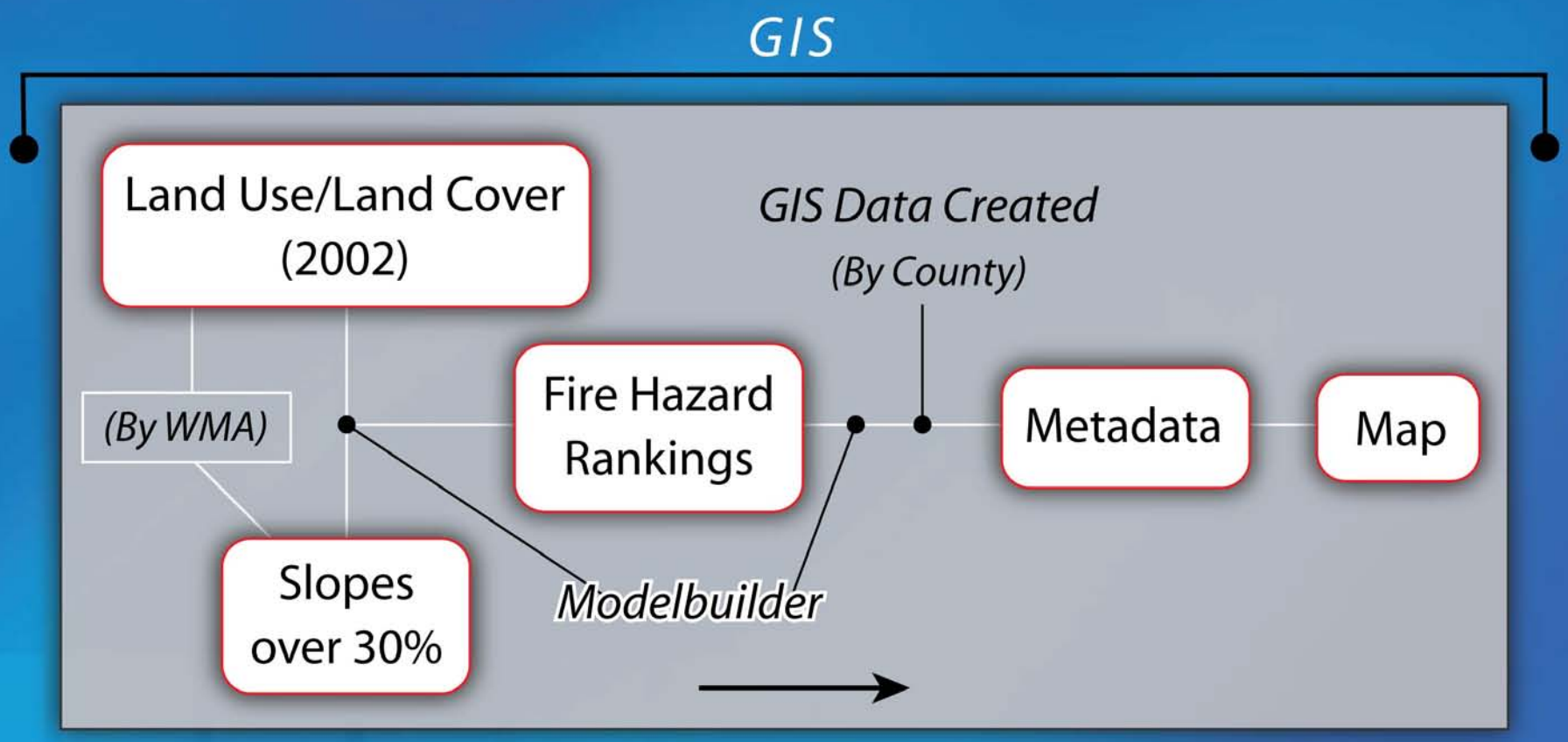
  - Mechanisms by which to mitigate wildfire hazard:

  - Outreach and Education

  - Community Preparedness

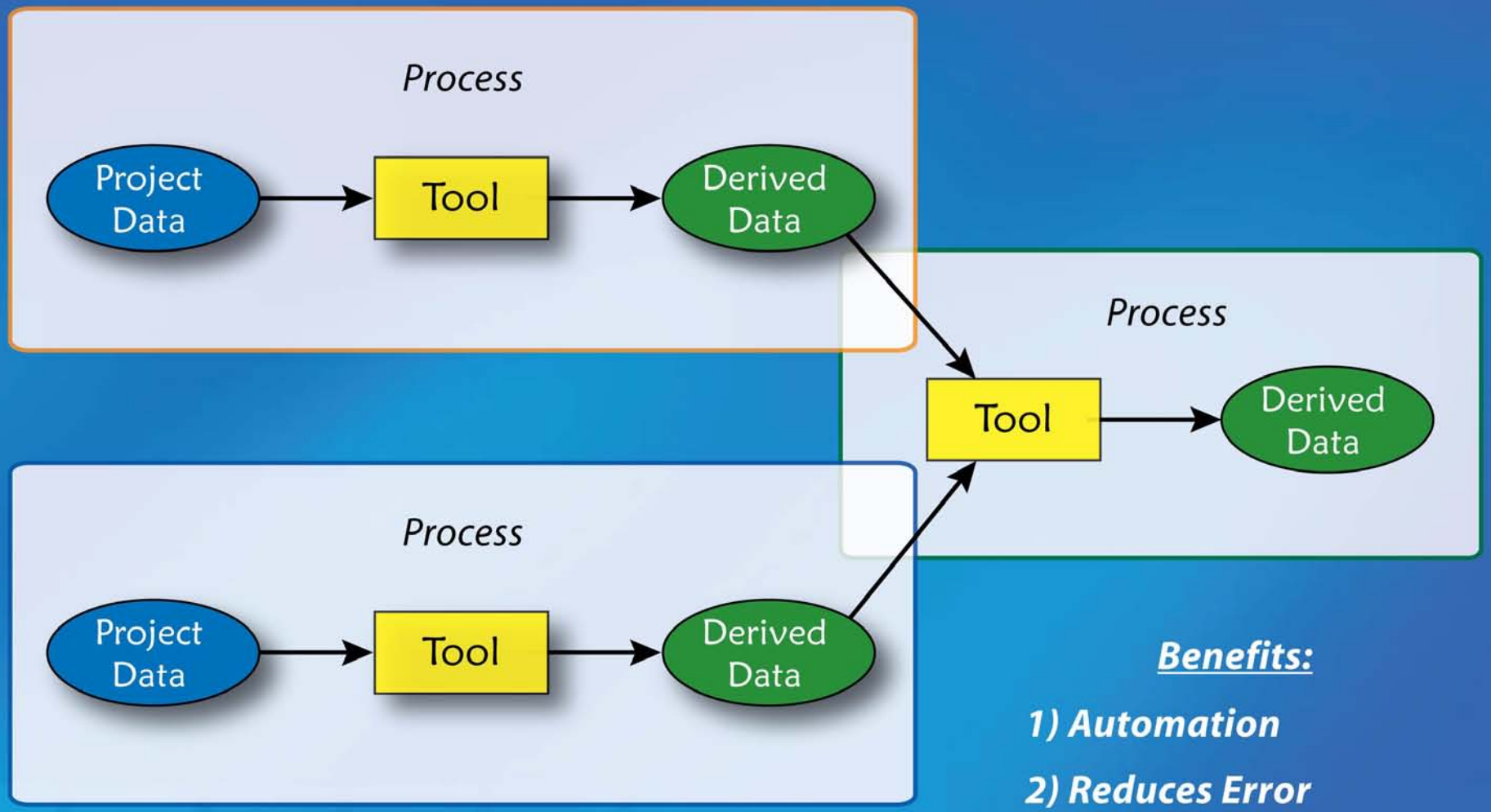
Updating the State Wildfire Hazard Map

<u>GOAL</u> To facilitate better wildfire planning and mitigation activities.



Baker

Modelbuilder



Benefits:

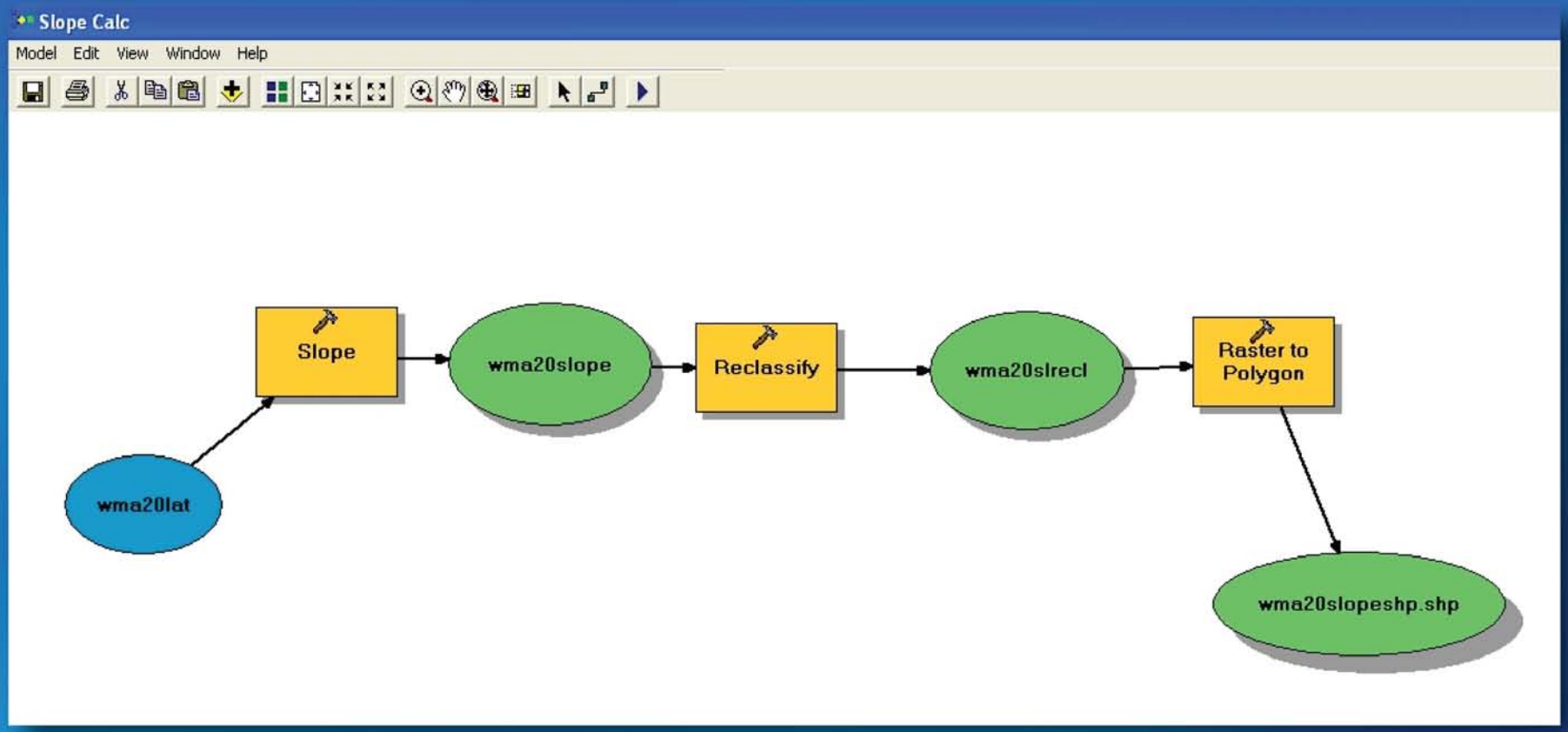
1) Automation

2) Reduces Error

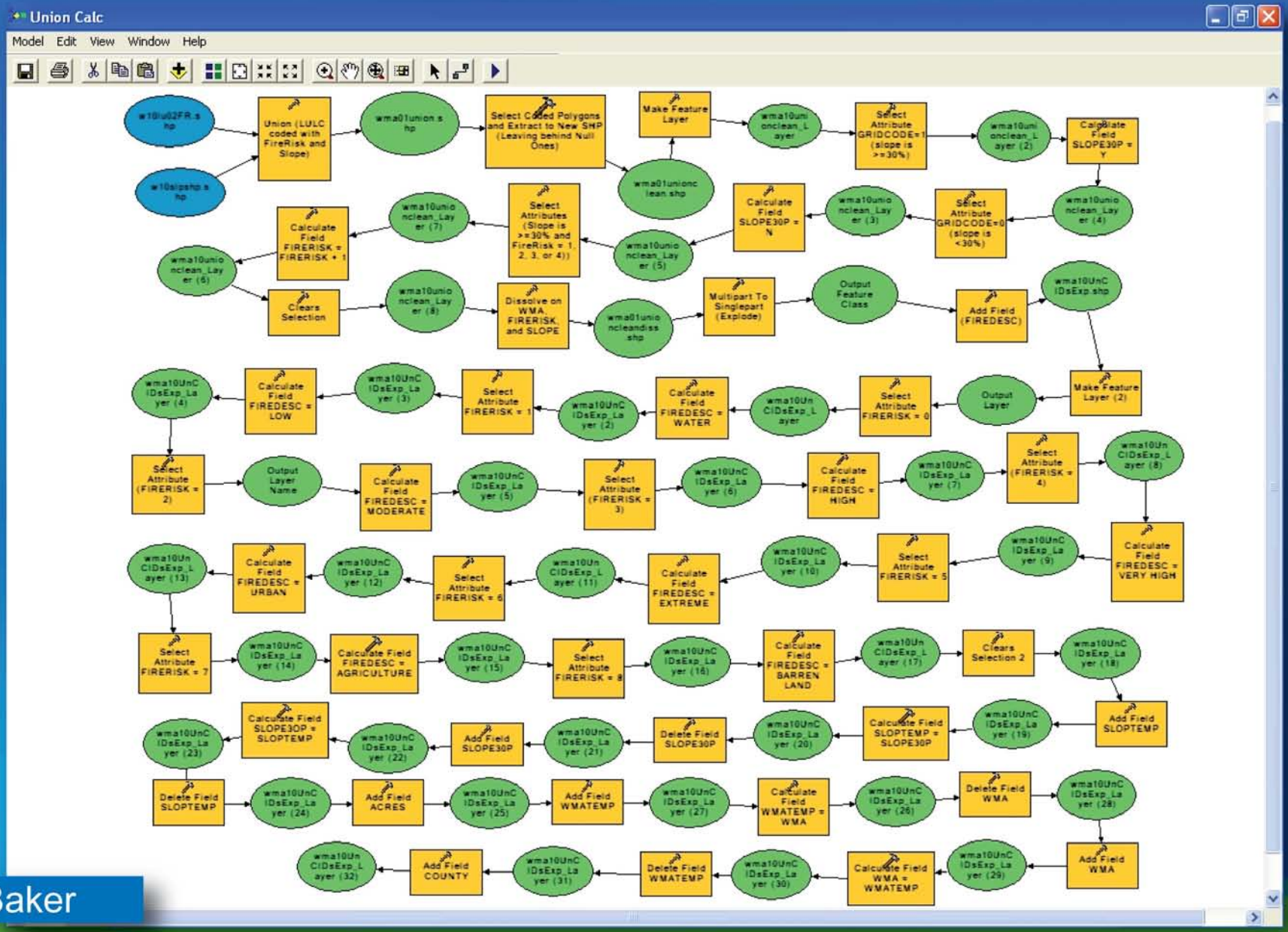
3) Methodology Saved

Baker

Modelbuilder: Slope Model

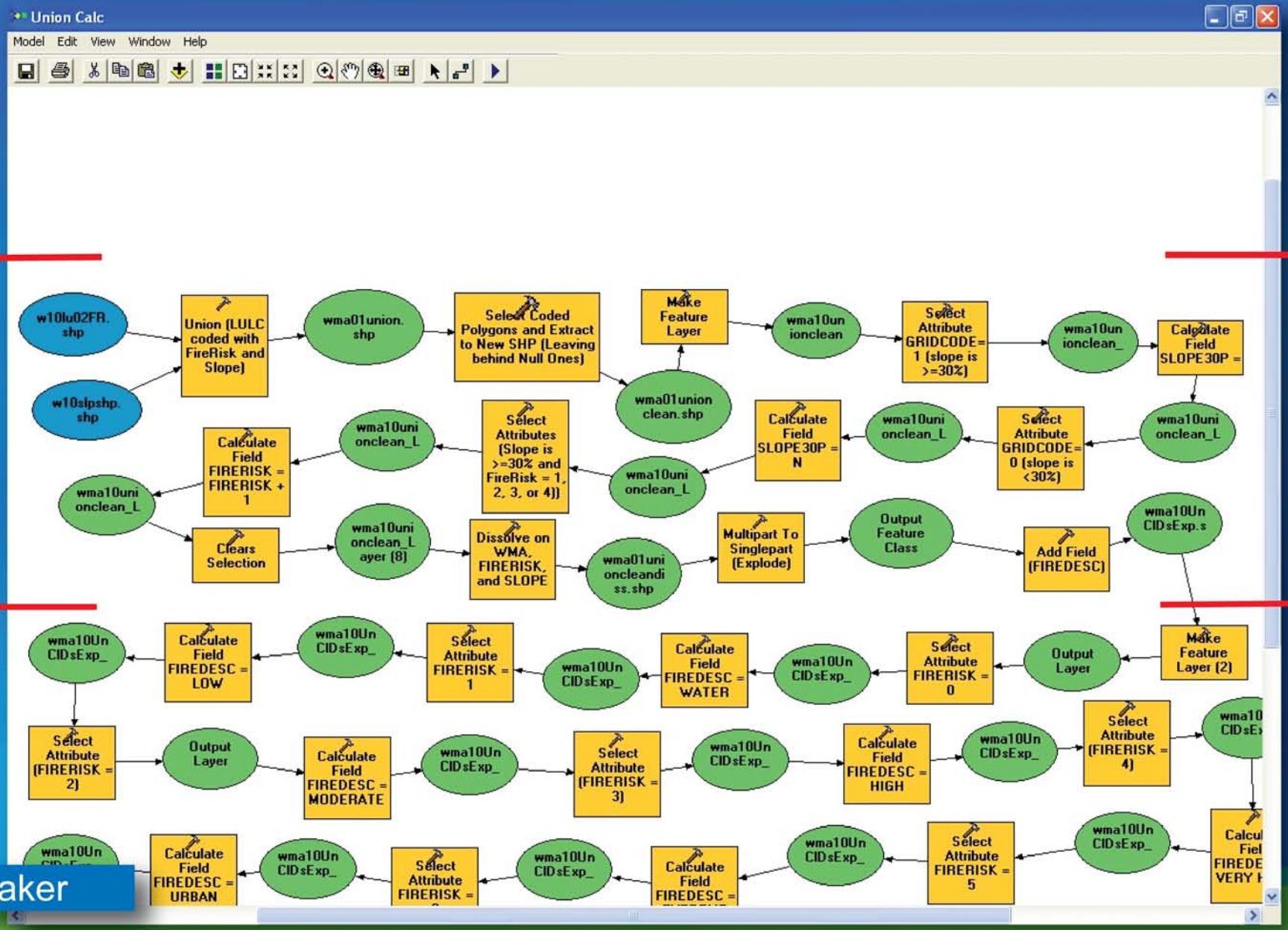


Modelbuilder: Union Model



Baker

Modelbuilder: Union Model



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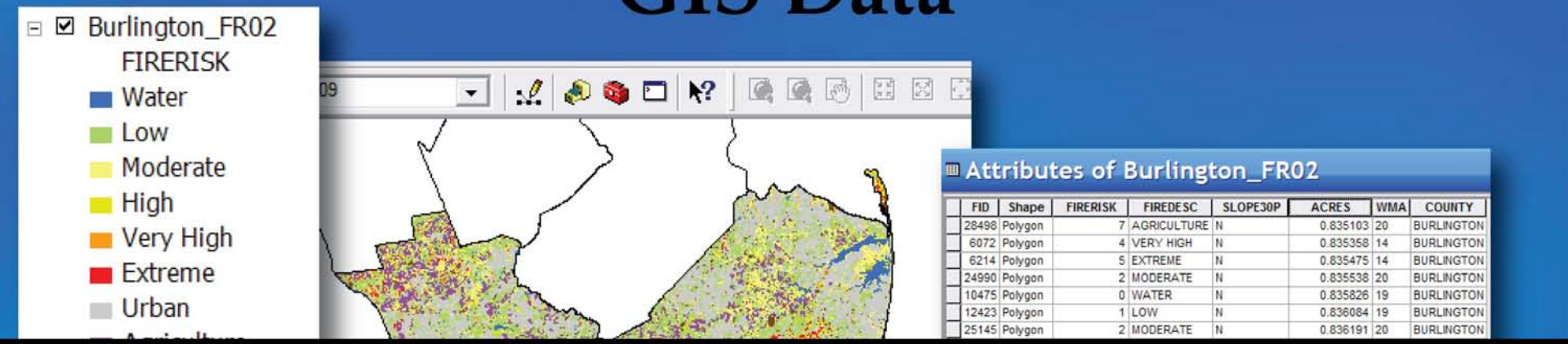
GIS Data



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6072	Polygon	4	VERY HIGH	N	0.835358	14	BURLINGTON
6214	Polygon	5	EXTREME	N	0.835475	14	BURLINGTON
24990	Polygon	2	MODERATE	N	0.835538	20	BURLINGTON
10475	Polygon	0	WATER	N	0.835826	19	BURLINGTON
12423	Polygon	1	LOW	N	0.836084	19	BURLINGTON
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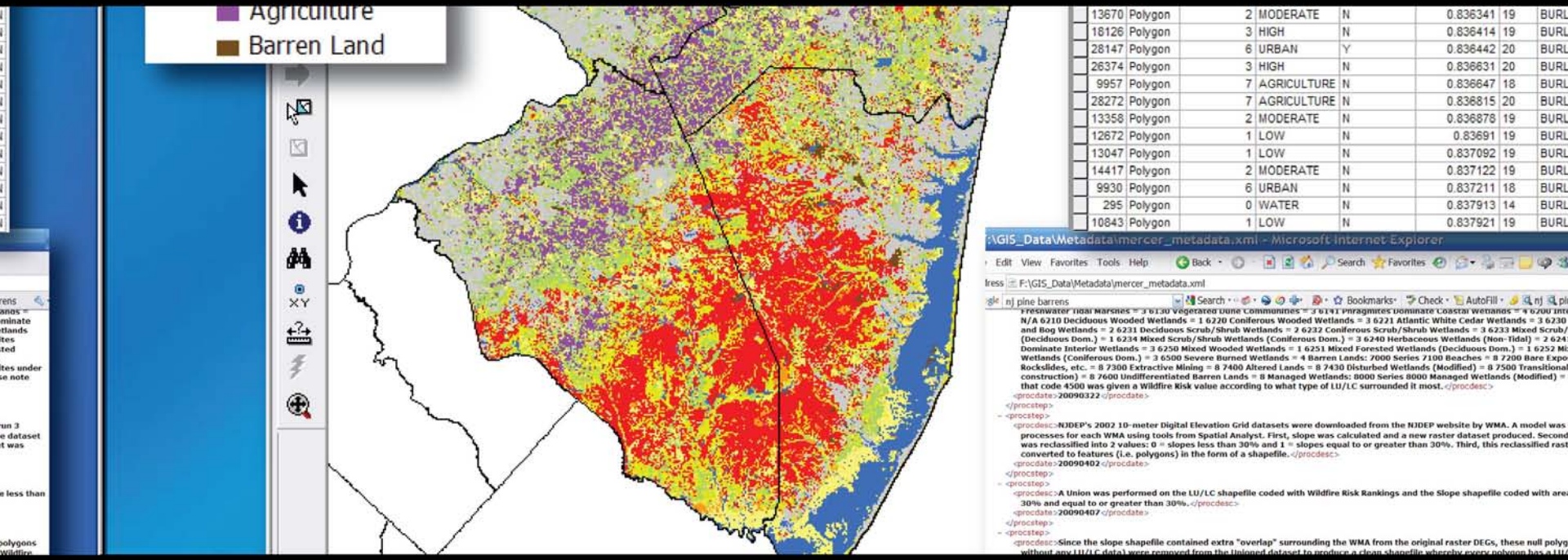

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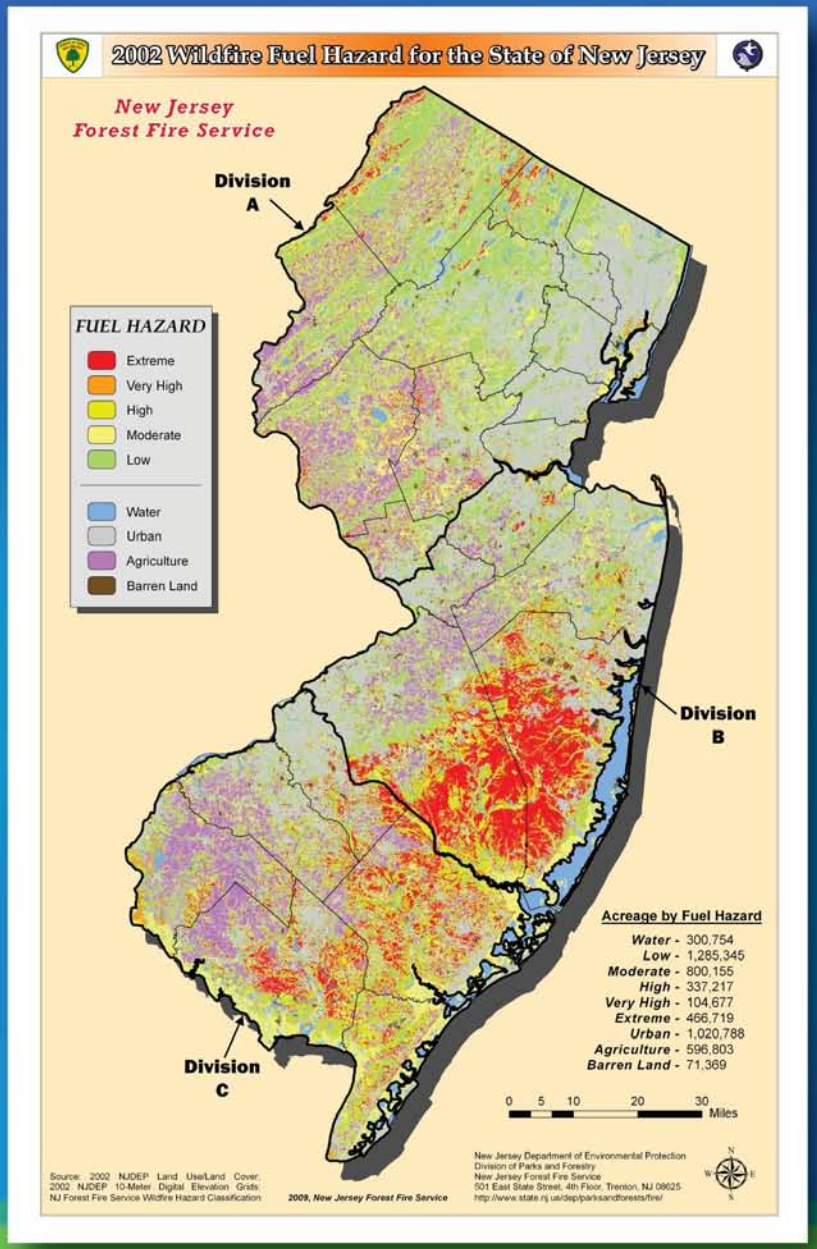
18126	Polygon	3	HIGH	N	0.836414	19	BURL
28147	Polygon	6	URBAN	Y	0.836442	20	BURL
26374	Polygon	3	HIGH	N	0.836631	20	BURL
9957	Polygon	7	AGRICULTURE	N	0.836647	18	BURL
28272	Polygon	7	AGRICULTURE	N	0.836815	20	BURL
13358	Polygon	2	MODERATE	N	0.836878	19	BURL
12672	Polygon	1	LOW	N	0.83691	19	BURL
13047	Polygon	1	LOW	N	0.837092	19	BURL
14417	Polygon	2	MODERATE	N	0.837122	19	BURL
9930	Polygon	6	URBAN	N	0.837211	18	BURL
295	Polygon	0	WATER	N	0.837913	14	BURL
10843	Polygon	1	LOW	N	0.837921	19	BURL

State Wildfire Hazard Map



Baker

Questions

?

Baker

- Anton Getz, CAPM

GIS Associate

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300 American Metro Boulevard
Hamilton, New Jersey 08619
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agetz@mbakercorp.com

LIDAR DERIVED FLOODPLAIN DELINEATION FOR CITY OF VIRGINIA BEACH

Glenn Locke
GIS Specialist
Michael Baker Corporation

LiDAR Derived Floodplain Delineation for City of Virginia Beach

Glenn Locke
GIS Specialist
Michael Baker Corporation

Baker

What is LiDAR?

- LiDAR = Light Detection and Ranging
- Sends laser light towards an object and measures the time of pulse return
- Return time for each pulse back to the sensor is processed to calculate the distance between the sensor and the various surfaces present

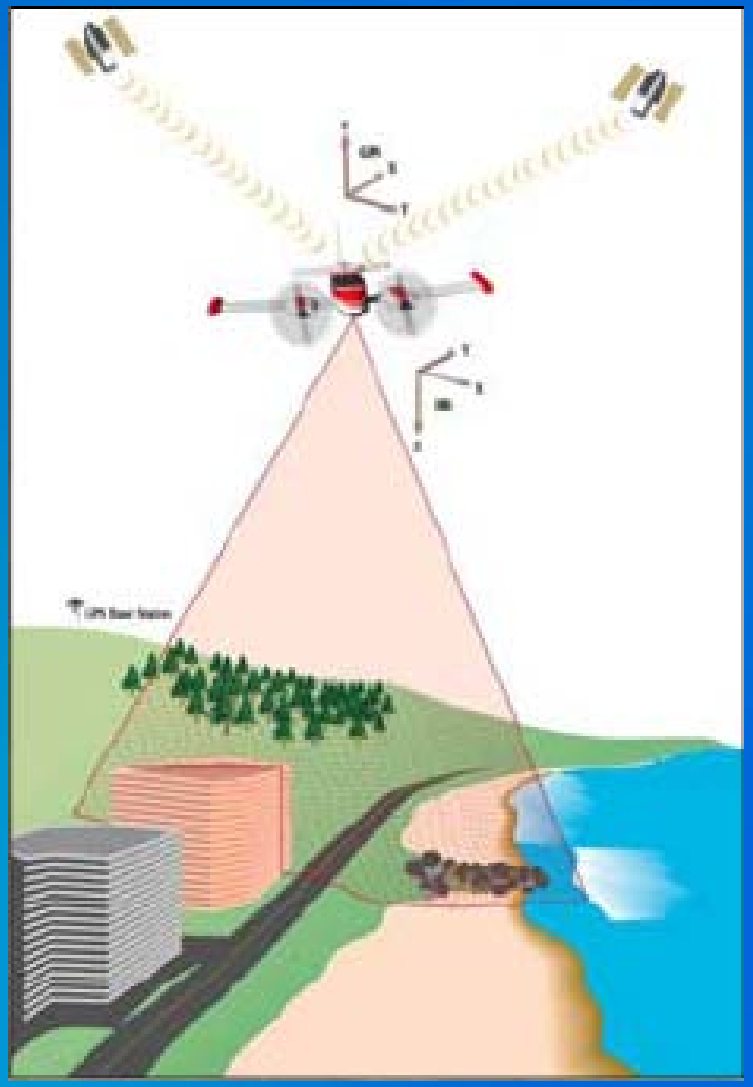
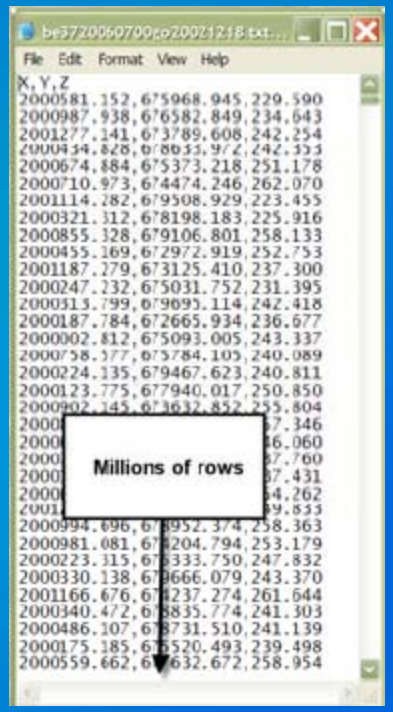


Image Courtesy of Optech, Inc.

Raw LiDAR Data

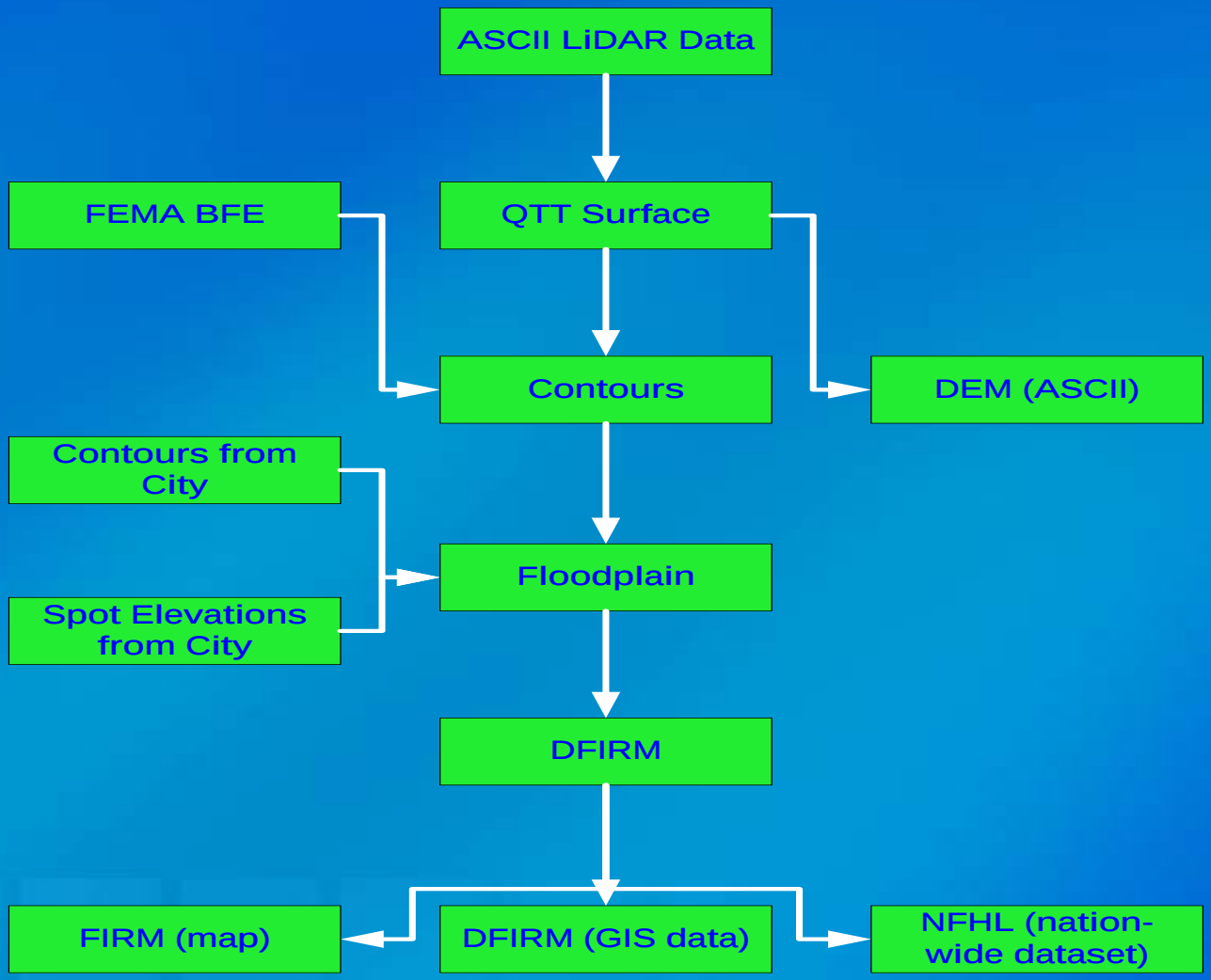
- Stores X, Y, Z data for each point
- Ability to store :
  - Intesity
  - RGB values
  - Timestamp
  - Angle
- Stored as ASCII or LAS
- LAS is “standardized” and requires metadata



Virginia Beach Floodplain Redelineation

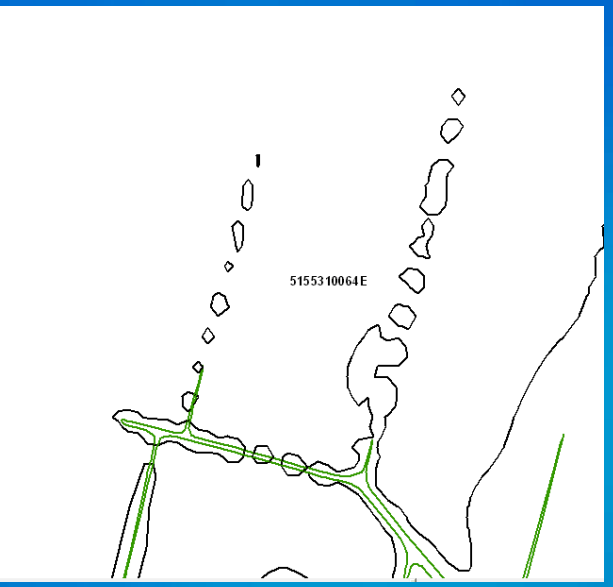
- Utilize existing FEMA Base Flood Elevations on new LiDAR elevation data
- Base Flood Elevations reported to the nearest tenth of a foot for tidal flooding
- Tie riverine and tidal flooding sources together
- Outputs must meet FEMA's guidelines and specifications

Process Overview



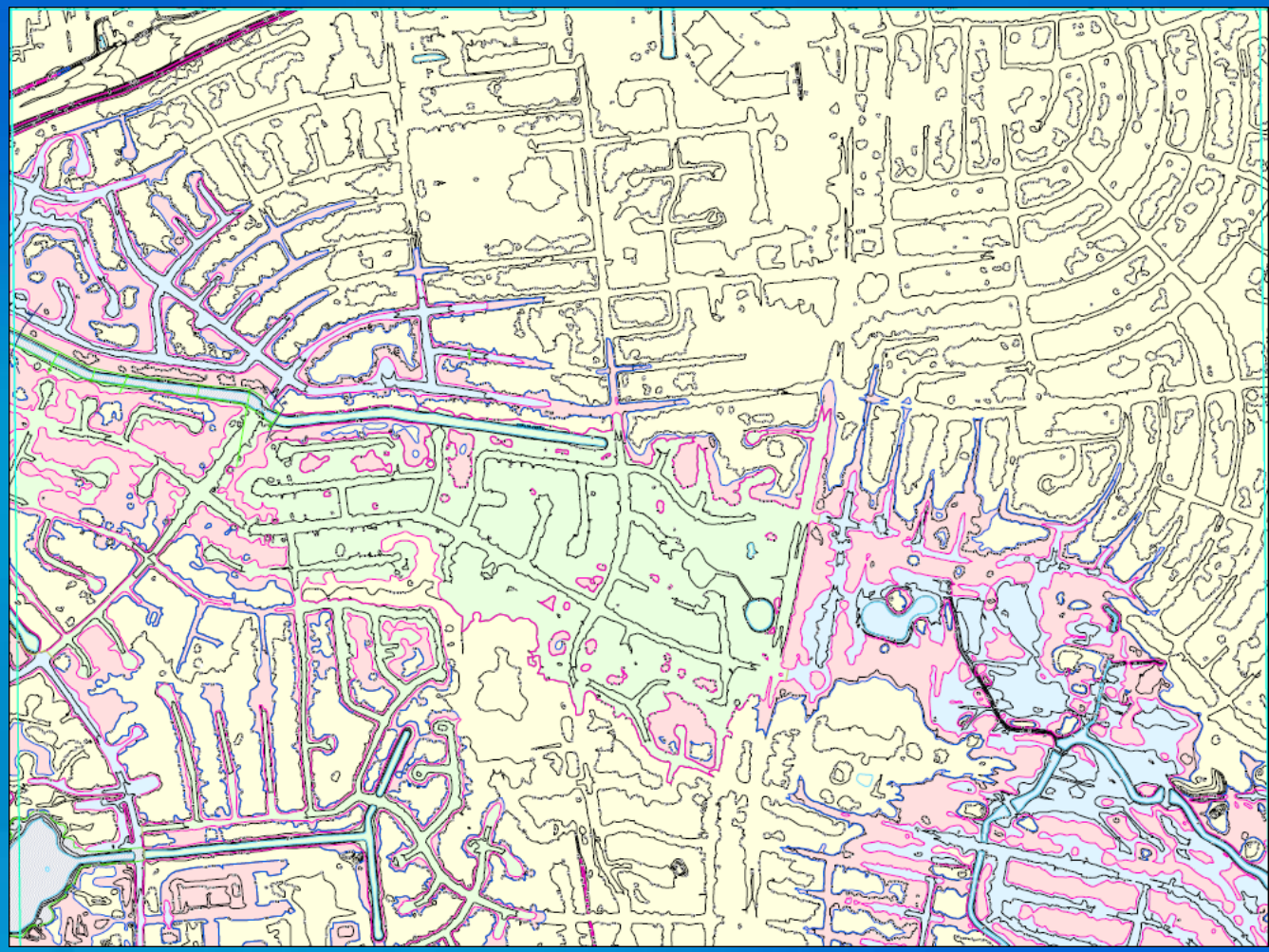
Challenges

- Merging disconnected polygons
- Smoothing lines



Challenges

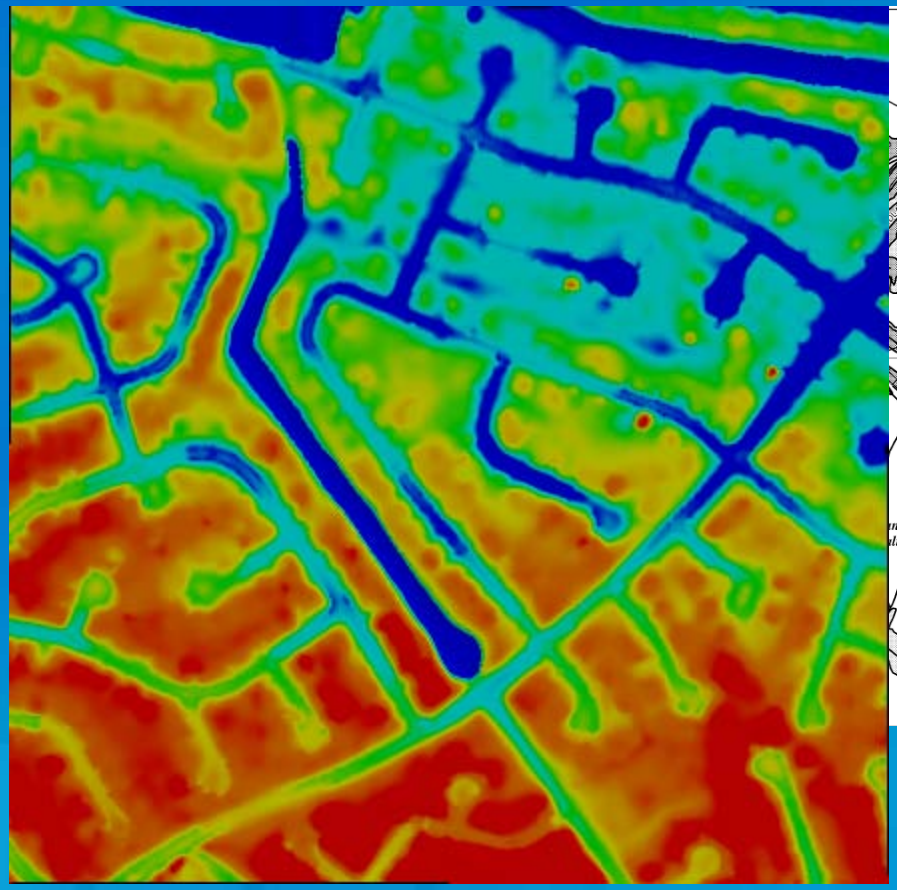
Tying multiple flooding sources together

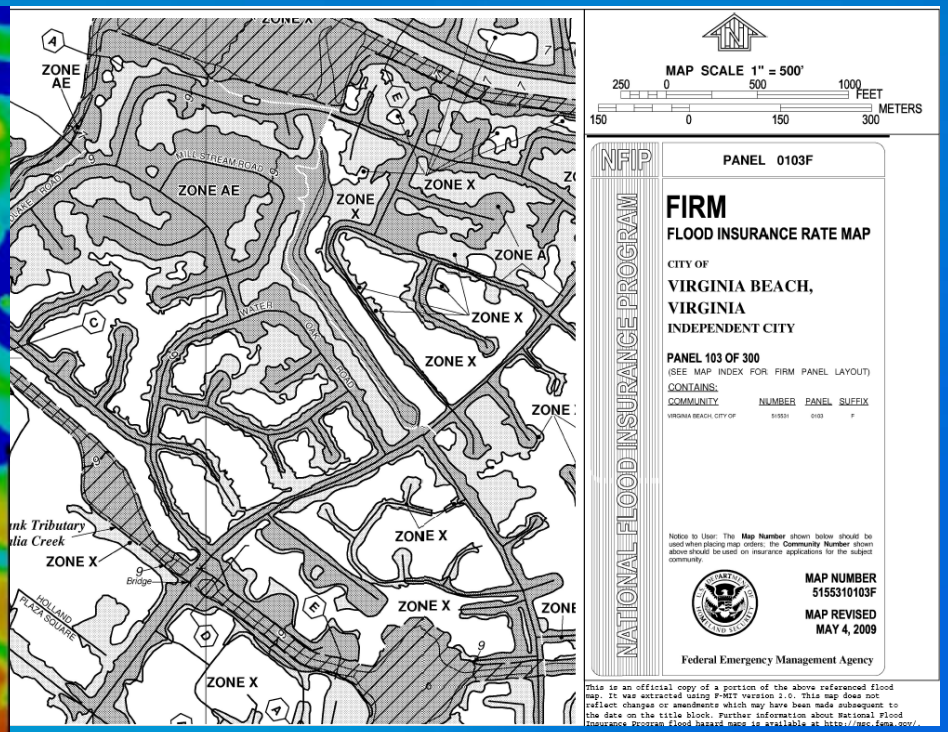


Thalia Creek Area

Results

- City of Virginia Beach Floodplain mapping meets FEMA's Floodplain Boundary Standards





Effective maps on May 4, 2009

Questions/ Open Discussion