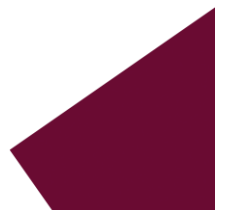
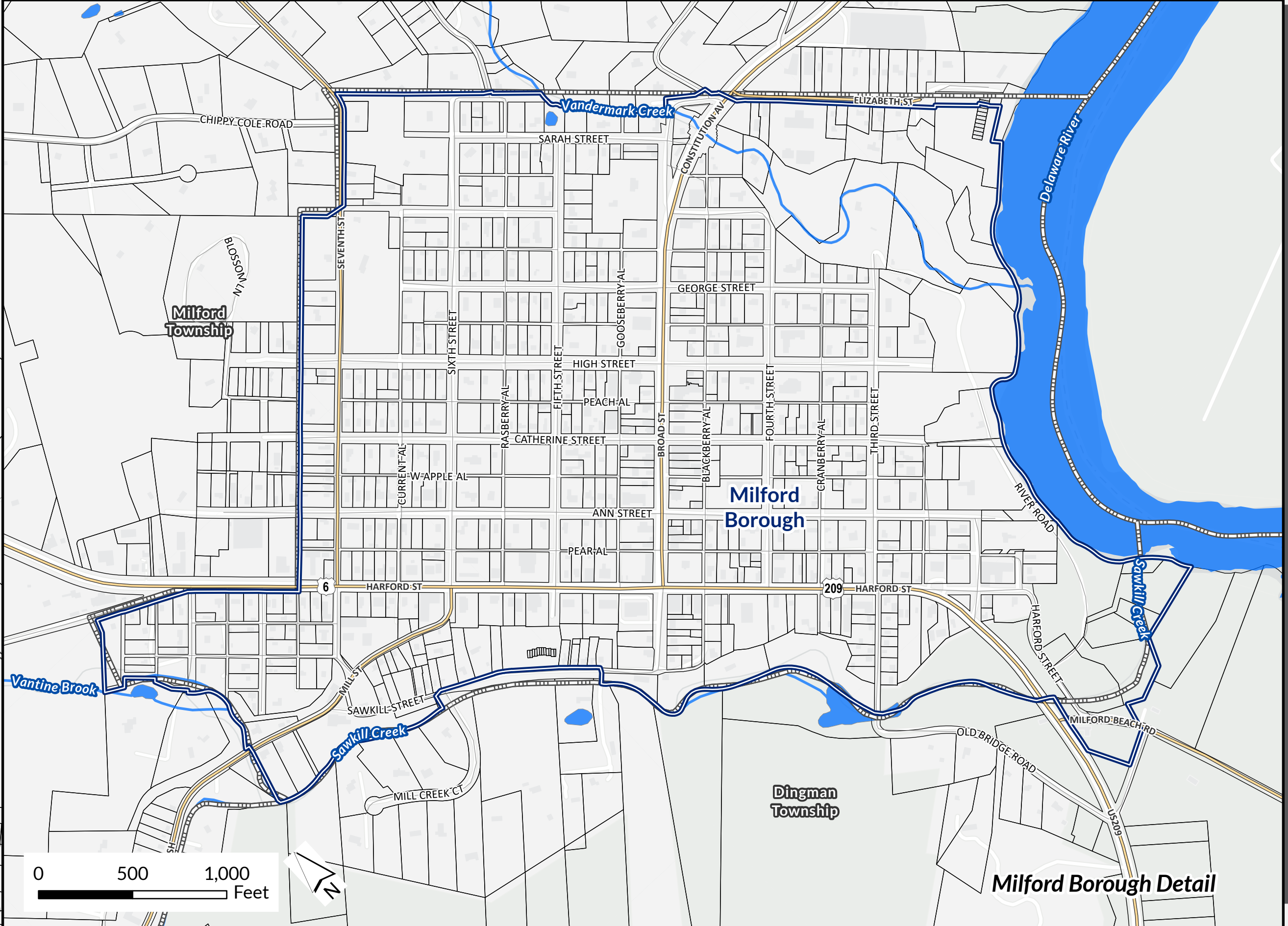


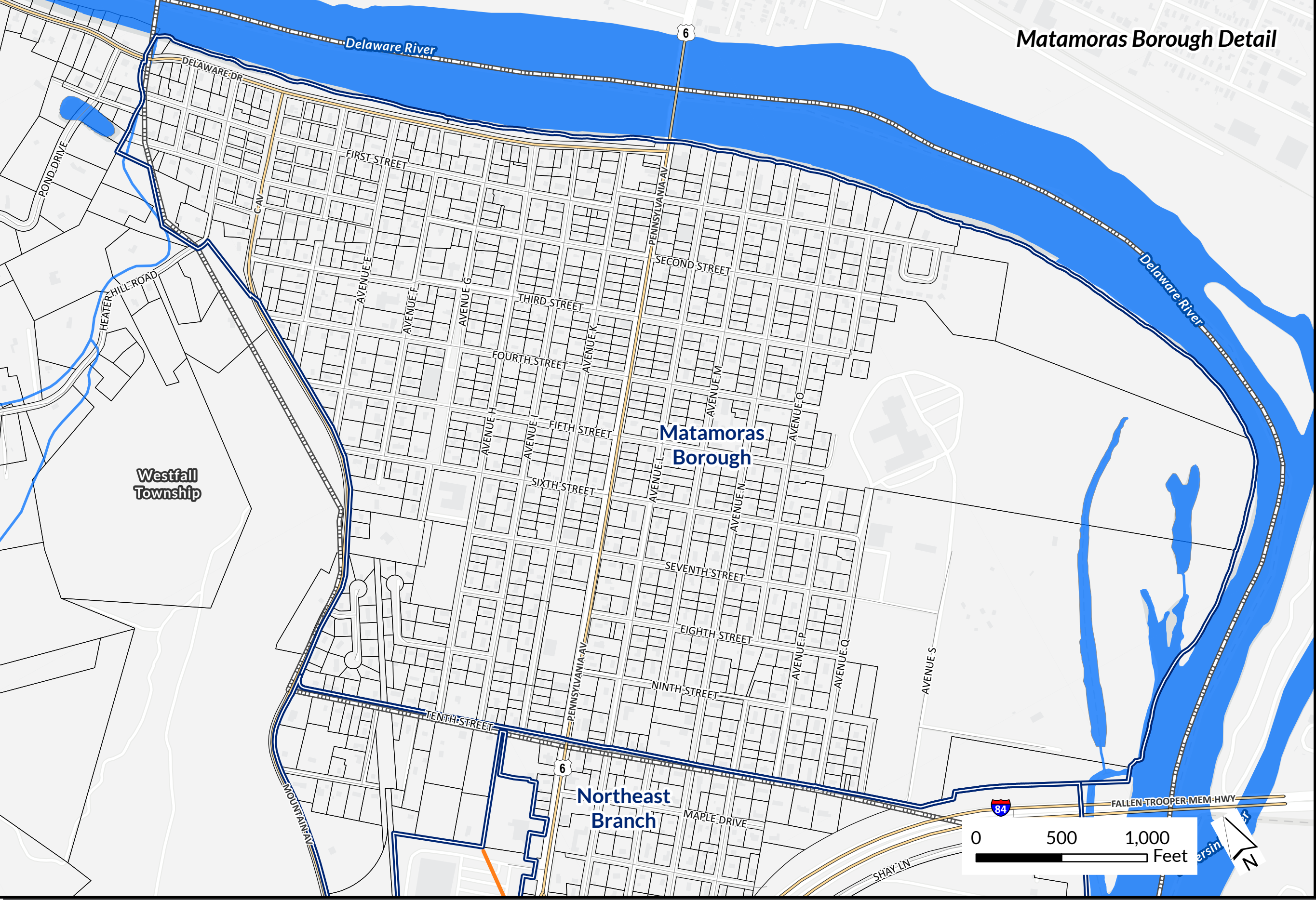
Appendix C:
Planning Area
Maps



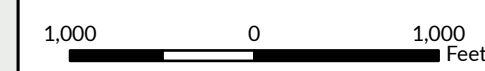
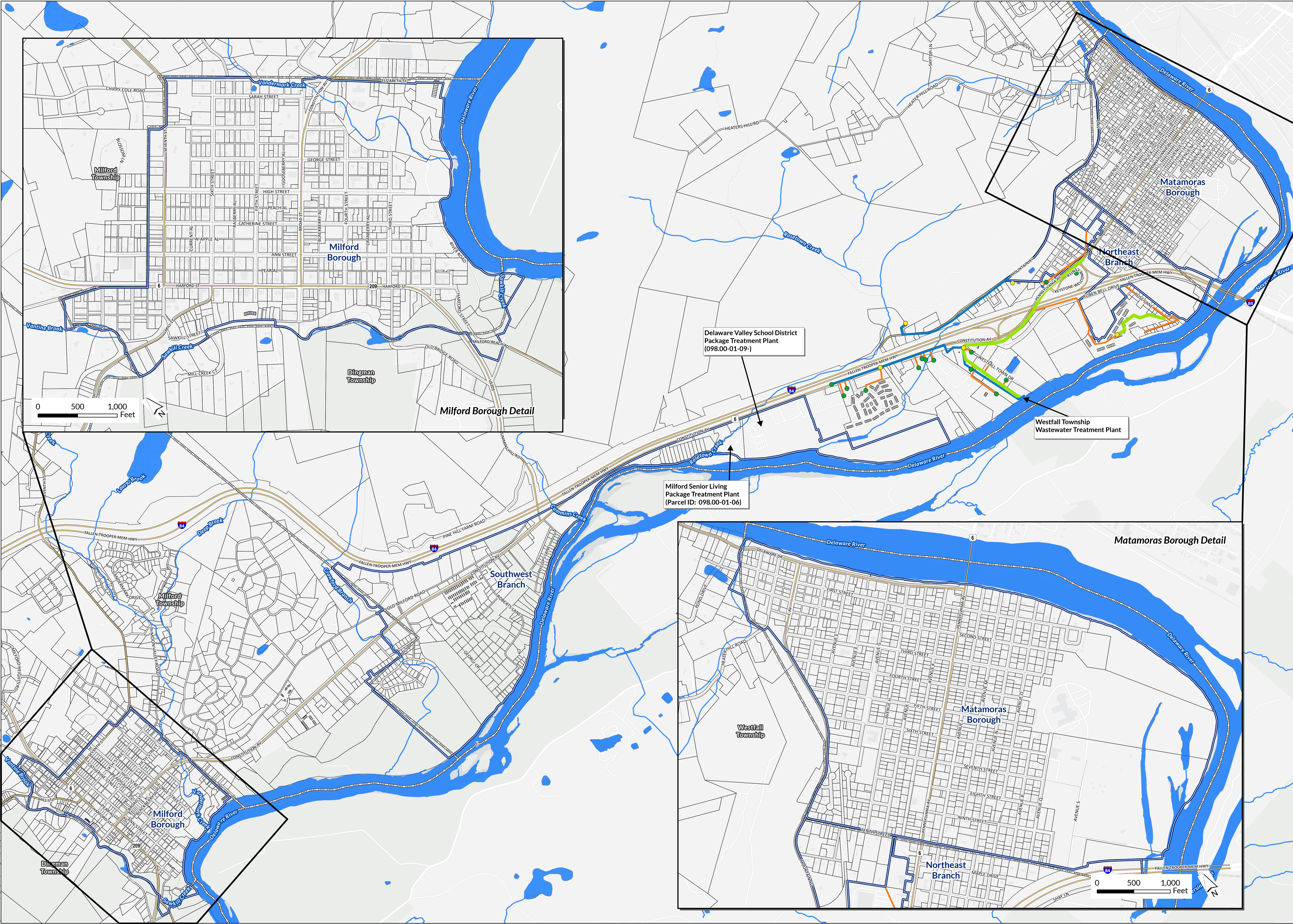
- Study Areas
- Existing Pump Station
- Authority Owned Pump Station
- Privately Owned Pump Station
- Existing Sanitary Sewer Pipe
- 4" or less Force Main
- 6" Force Main
- 8" Force Main
- Parcel Boundaries
- Interstate
- State Roads
- Local Roads
- Municipal Boundary



Milford Borough Detail



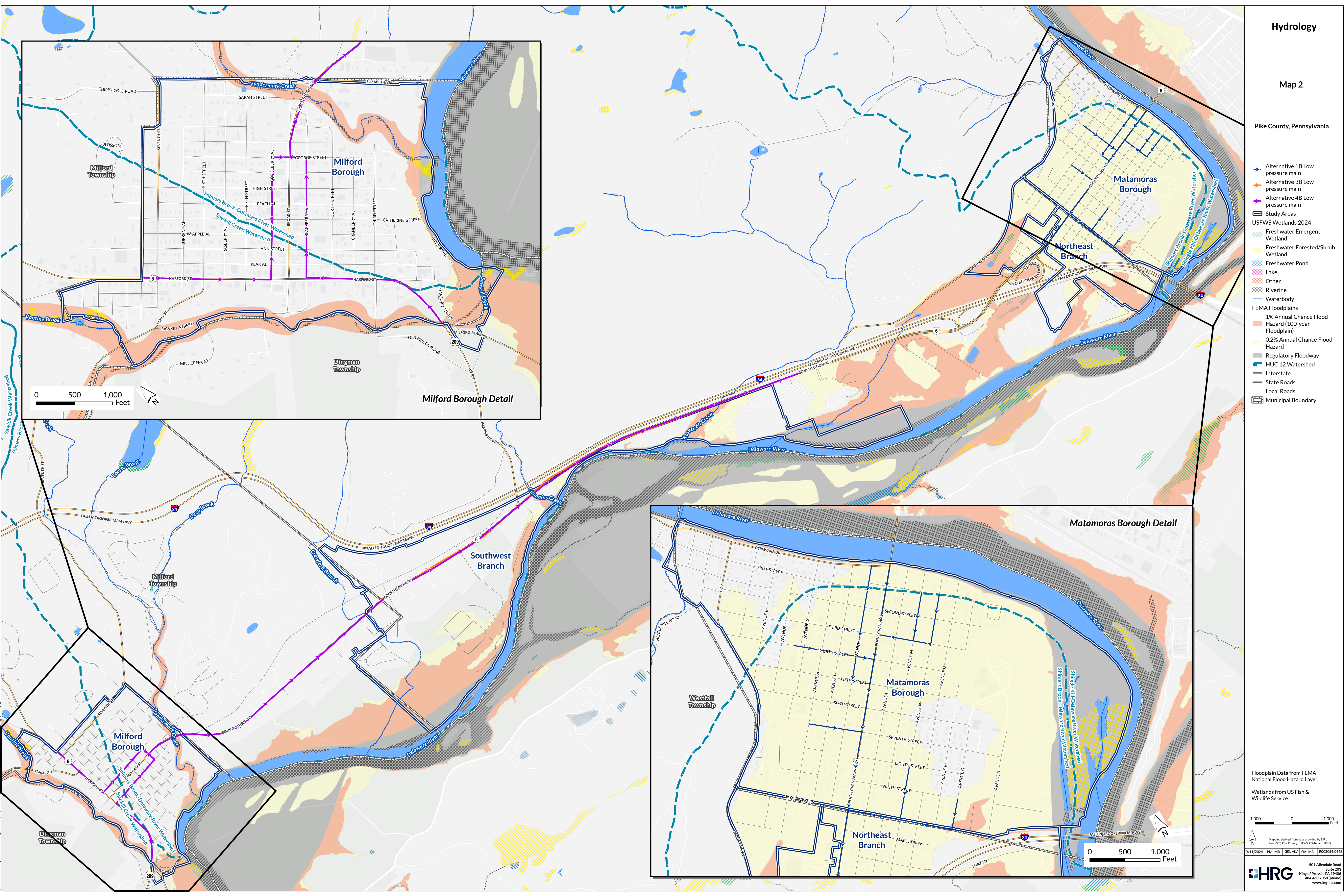
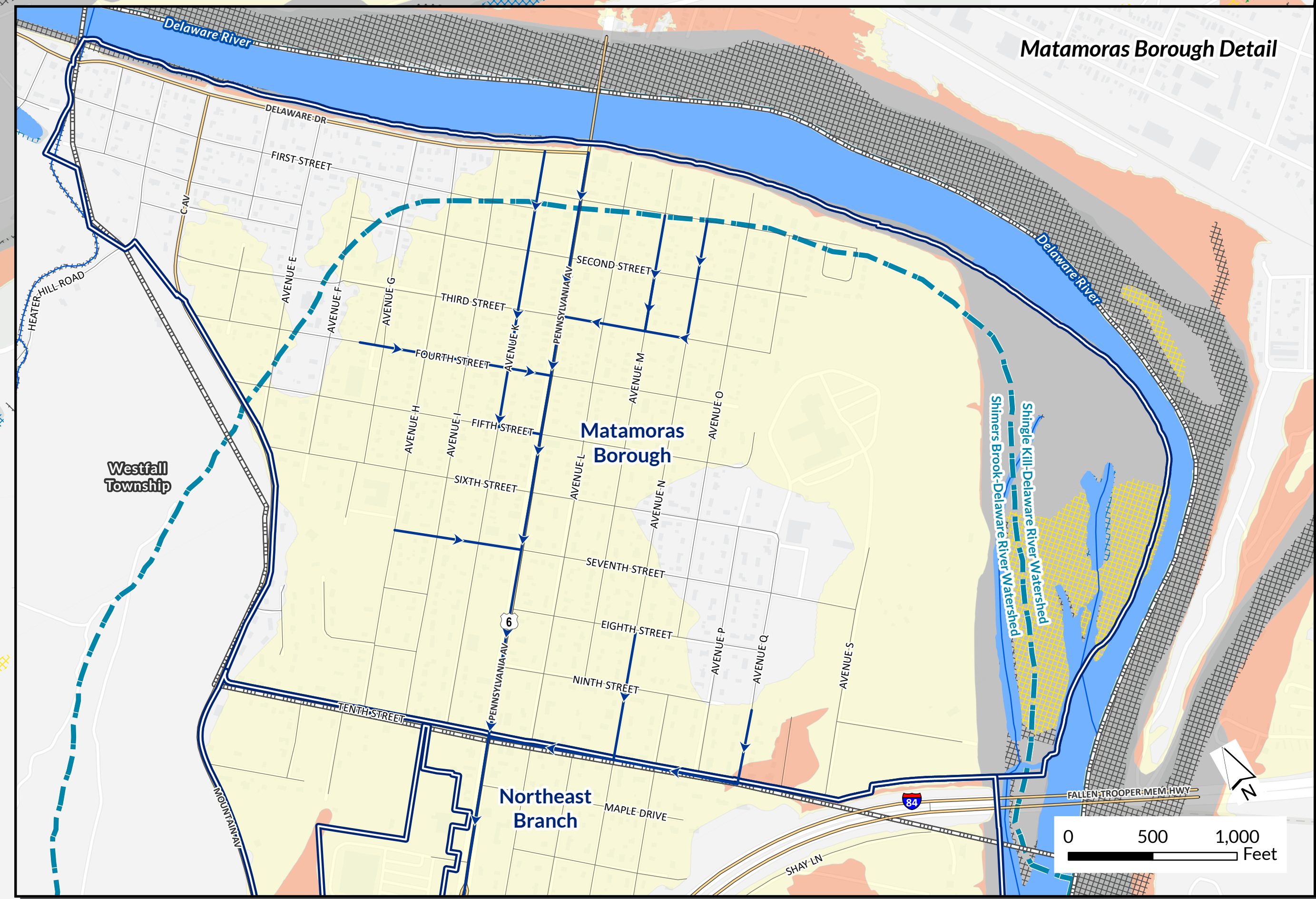
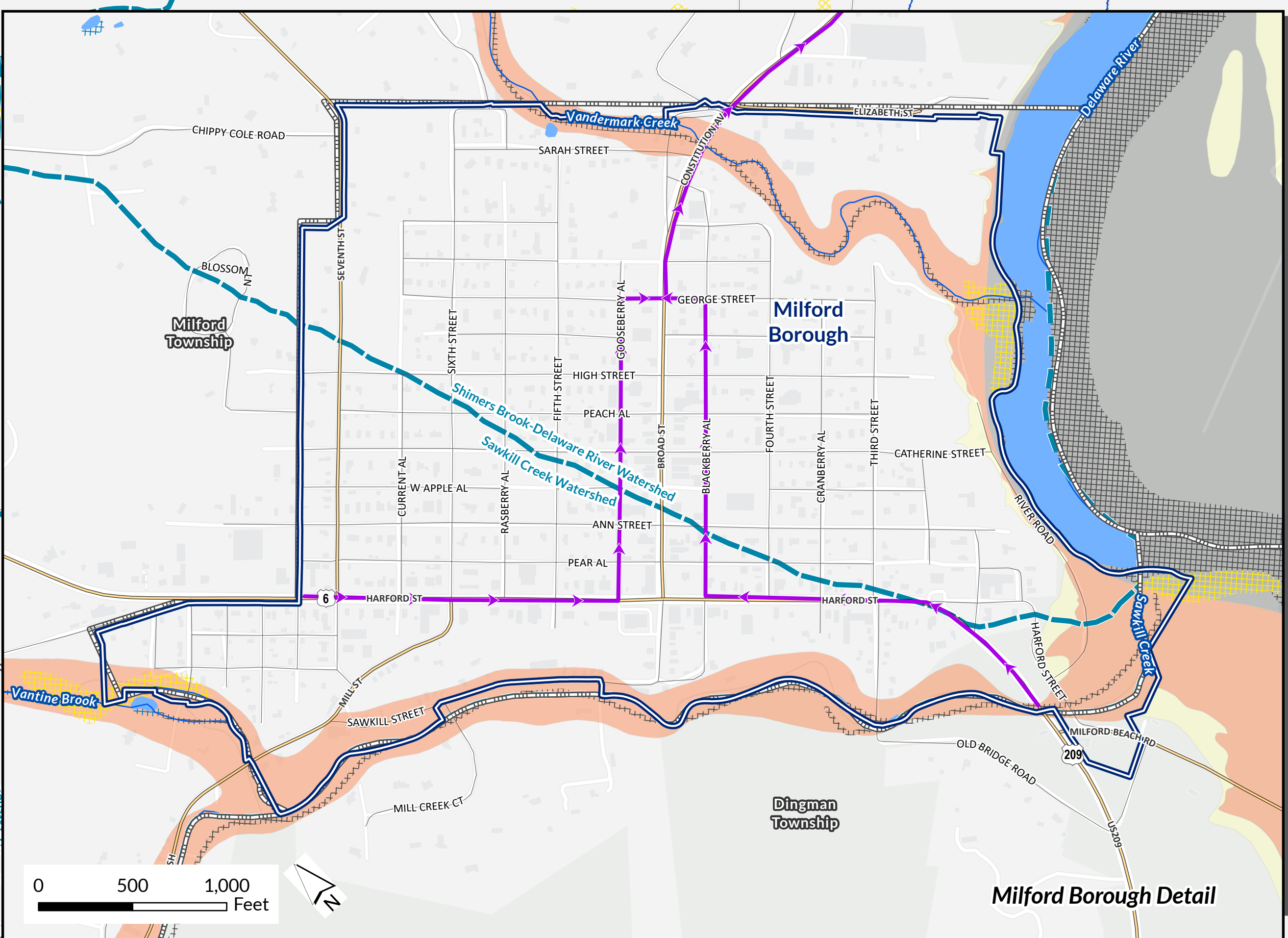
Matamoras Borough Detail



Mapping derived from data provided by ESRI, PennDOT, Pike County, and USGS.

8/29/2024 PM: MR GIS: ALV CA: MR R003054-0448

- Alternative 1B Low pressure main
- Alternative 3B Low pressure main
- Alternative 4B Low pressure main
- Study Areas
- USFWS Wetlands 2024
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
 - Waterbody
- FEMA Floodplains
 - 1% Annual Chance Flood Hazard (100-year Floodplain)
 - 0.2% Annual Chance Flood Hazard
 - Regulatory Floodway
- HUC 12 Watershed
- Interstate
- State Roads
- Local Roads
- Municipal Boundary



Soils

Map 3

Pike County, Pennsylvania

- Study Areas
- Waterbody
- Municipal Boundary

Soils

- 111B
- 11A
- 121D
- 121F
- 14
- 143
- 15
- 18
- 19B
- 20
- 21B
- 21C
- 239B
- 239C
- 239D
- 240F
- 24A
- 24B
- 24C
- 25B
- 25C
- 26
- 27
- 30B
- 30C
- 38B
- 38C
- 402C
- 402E
- 442B
- 442D
- 5B
- 60B
- 60C
- 61B
- 61C
- 75
- 7B
- 7C
- 897B
- 897C
- 89B
- 89C
- 89D
- 97B
- 9B
- BP
- W; WATER

Soil data from USDA NRCS Web Soil Survey Accessed 2024-08-28

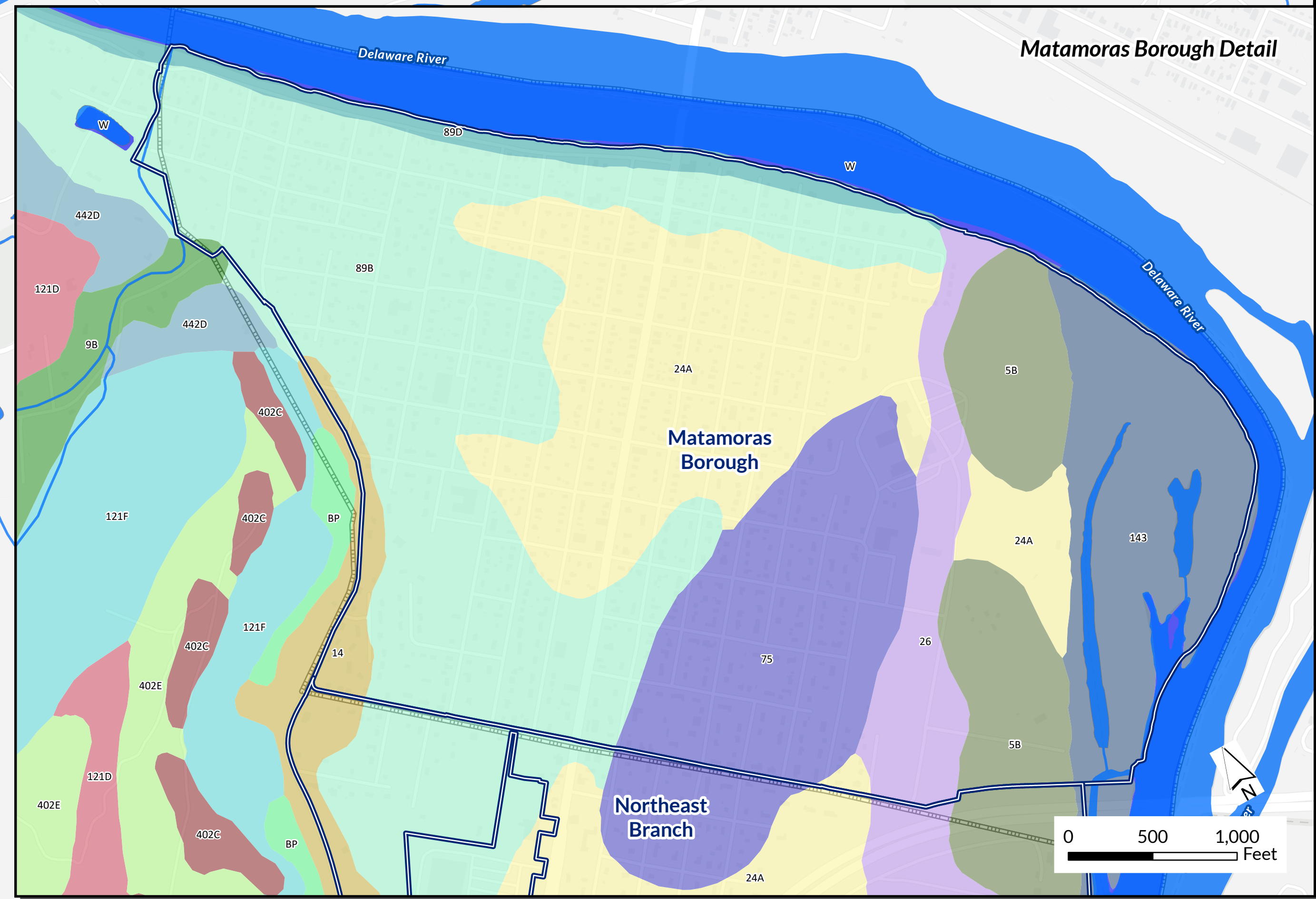
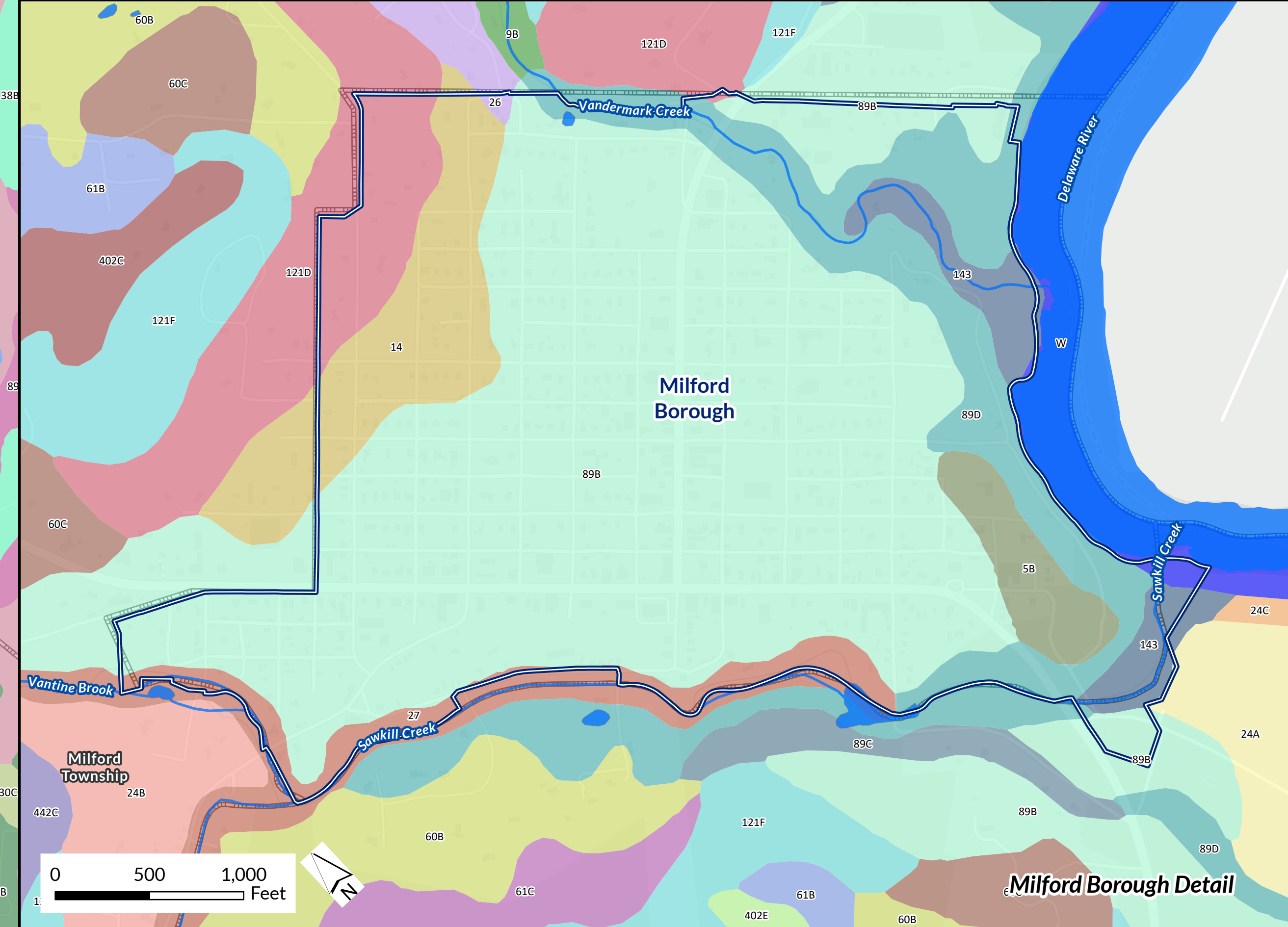
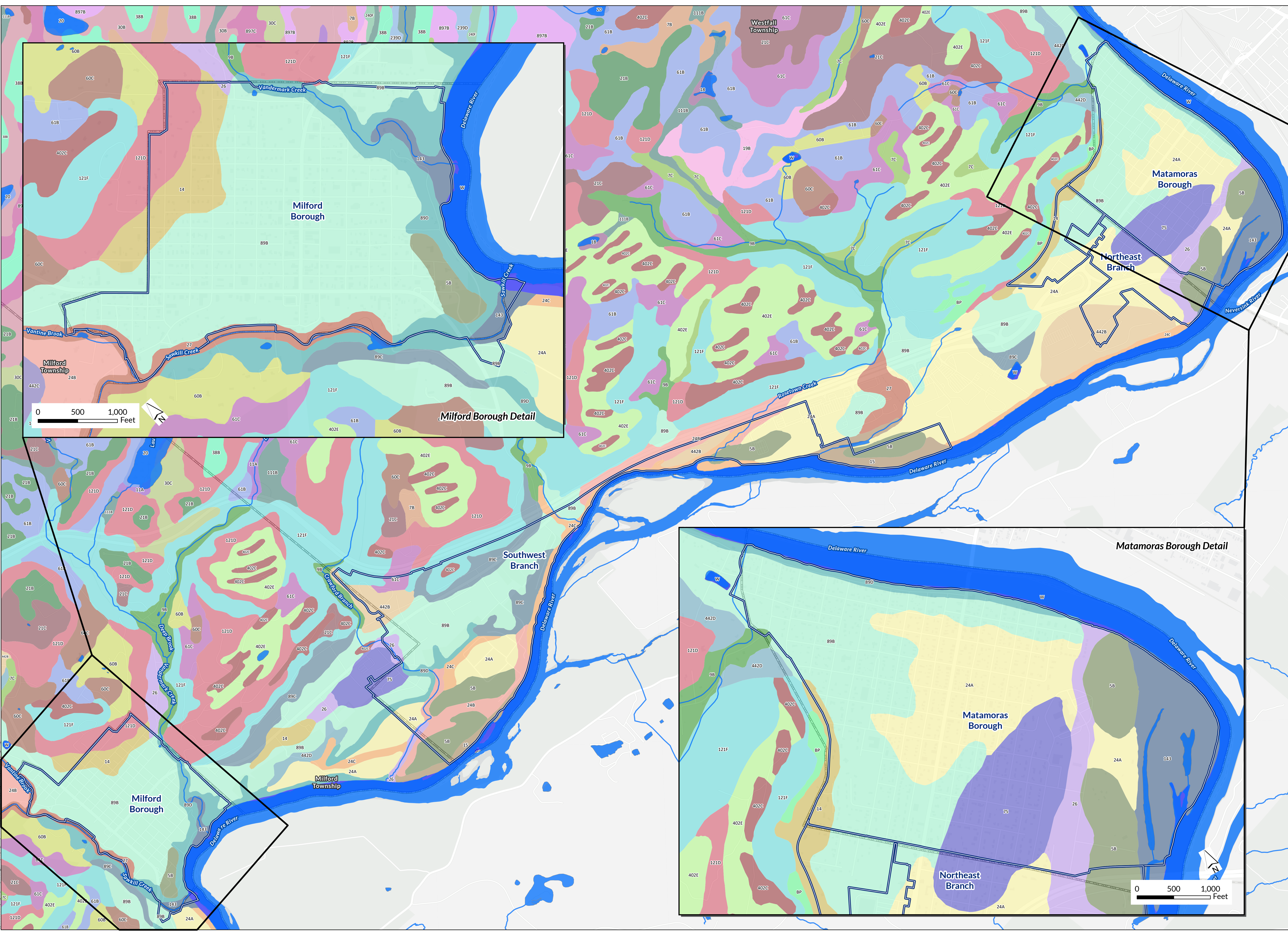
Tabular: Version 16, Sep 7, 2023 Spatial: Version 4, Sep 17, 2019

1,000 0 1,000 Feet

Mapping derived from data provided by ESRI, PennDOT, Pike County, USDA NRCS, and USGS.

8/28/2024 PM: MR GIS: ALV QA: MR R003054.048

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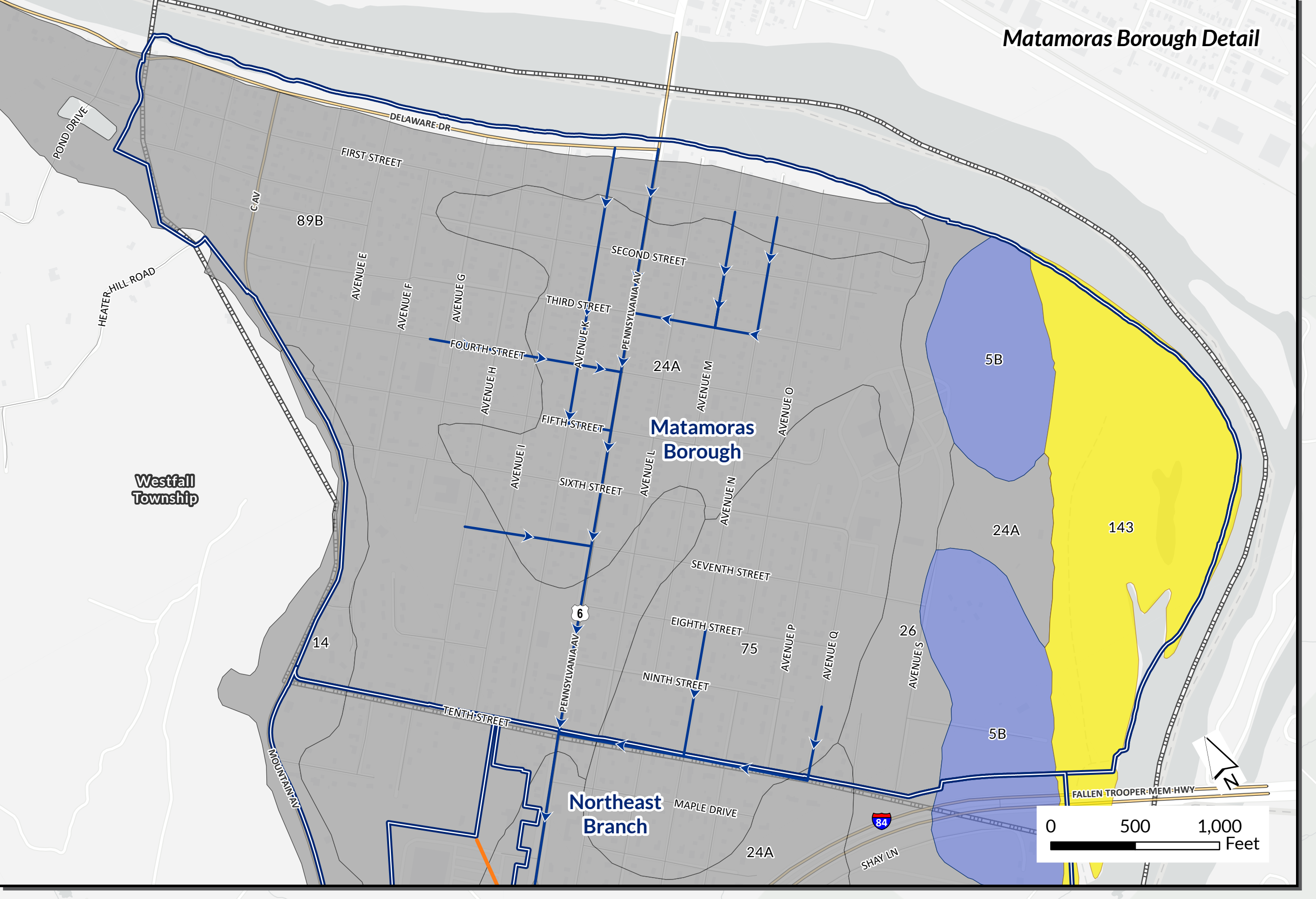
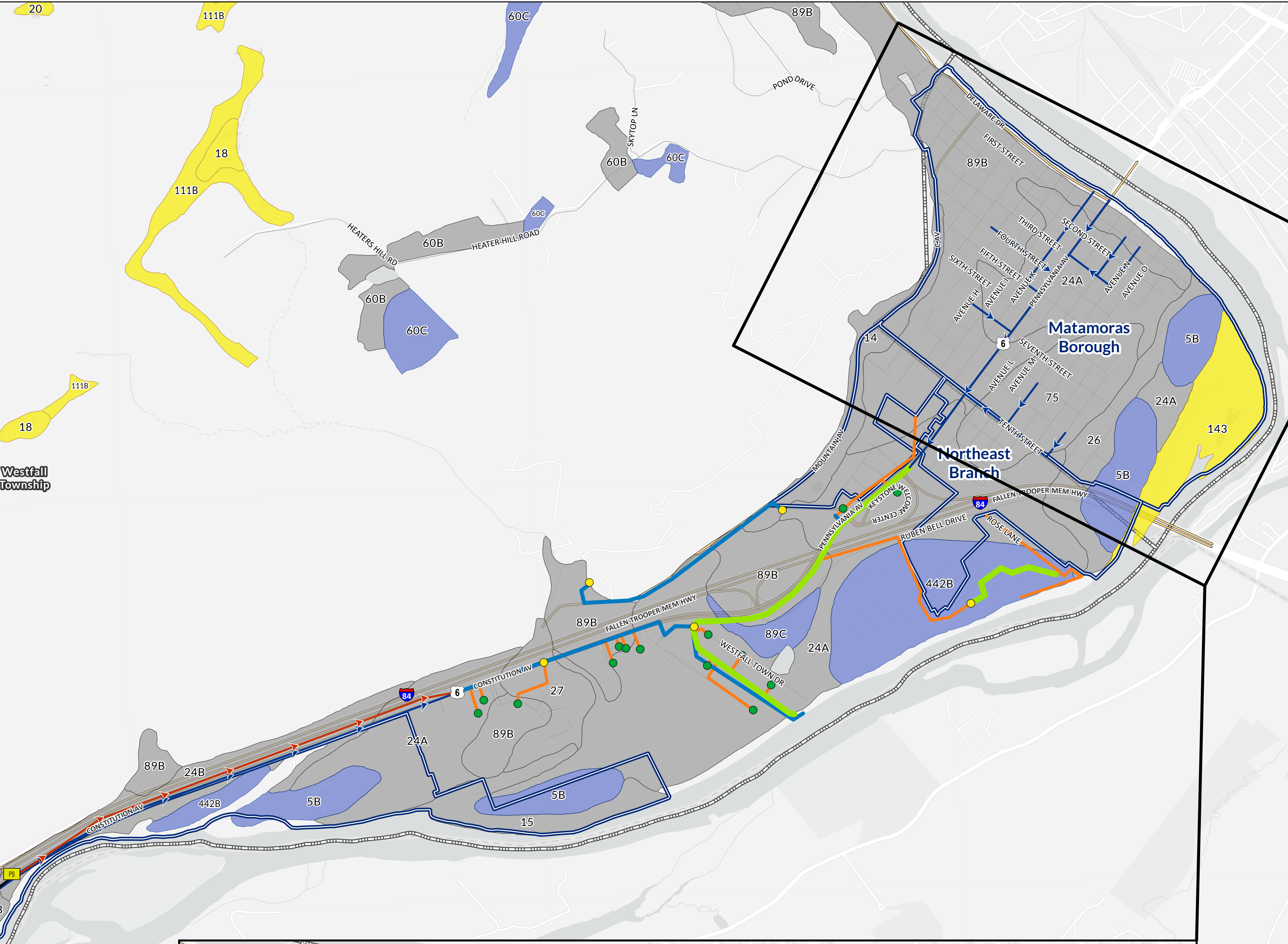
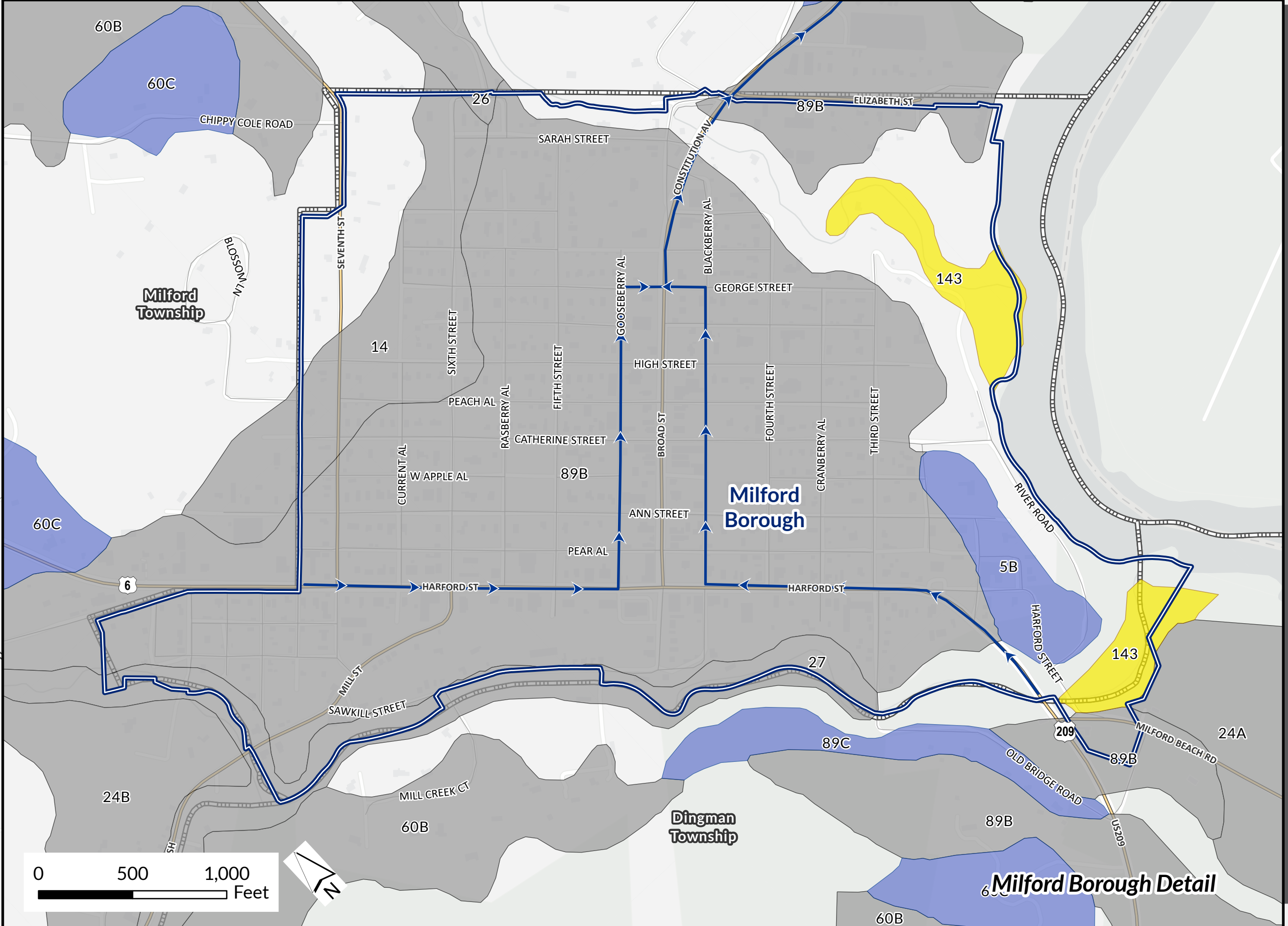
\\SRV1501\GIS\Projects\2024\08\08_Soils_PikeCounty\Map3\Map3_Soils.mxd 03/28/2024 2:38:36 PM

Soil Designations

Map 4

Pike County, Pennsylvania

- Alternative 1B Low pressure main
- Alternative 3A Pump Station
- Alternative 3A Gravity Main
- Alternative 3A Force Main
- Alternative 4B Low pressure main
- Study Areas
- Existing Pump Station
- Authority Owned Pump Station
- Privately Owned Pump Station
- Existing Sanitary Sewer Pipe
- 4" or less Force Main
- 6" Force Main
- 8" Force Main
- Hydric Soils
- Farmland of Statewide Importance
- Prime Agricultural Soils
- Interstate
- State Roads
- Local Roads
- Municipal Boundary



Soil data from USDA NRCS
Web Soil Survey
Accessed 2024-08-28

Tabular: Version 16, Sep 7, 2023
Spatial: Version 4, Sep 17, 2019



Mapping derived from data provided by ESRI, PennDOT, Pike County, USDA NRCS, and USGS.

9/11/2024 PM: MR GIS: ALV QA: MR R003054-0448

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King of Prussia, PA 19406
484.460.7150 (phone)
www.hrg-inc.com

Soil Suitability

Map 5

Pike County, Pennsylvania

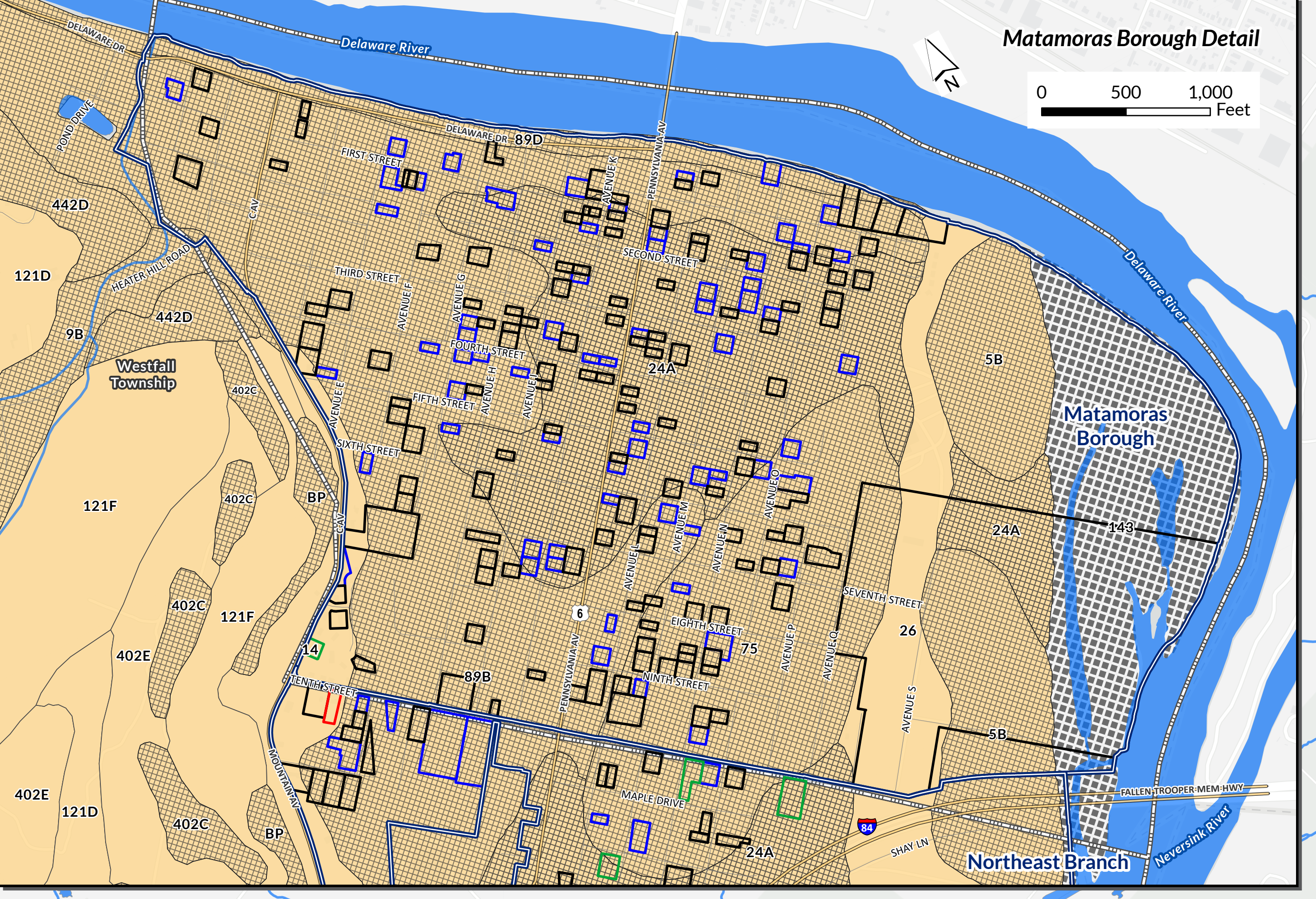
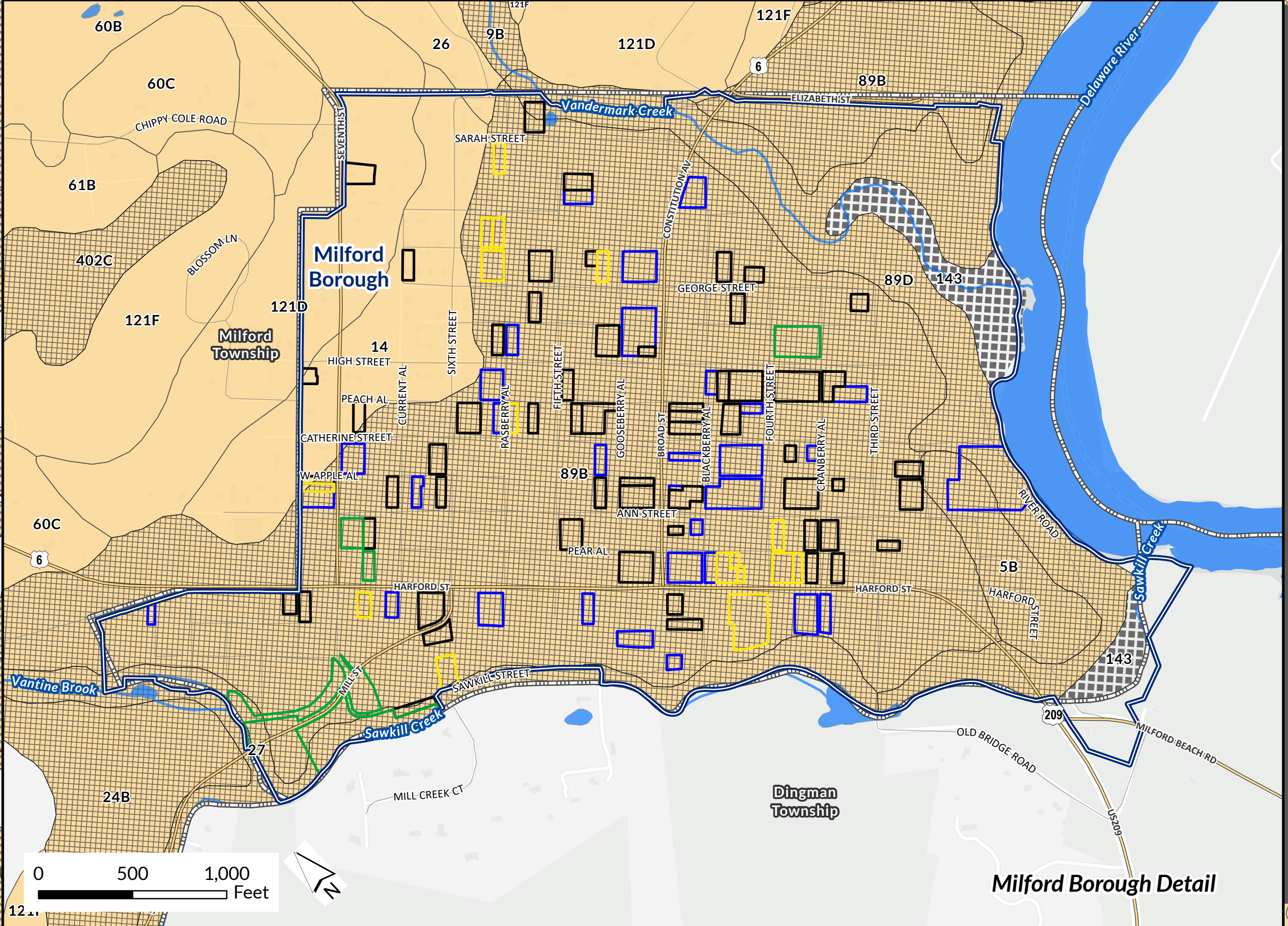
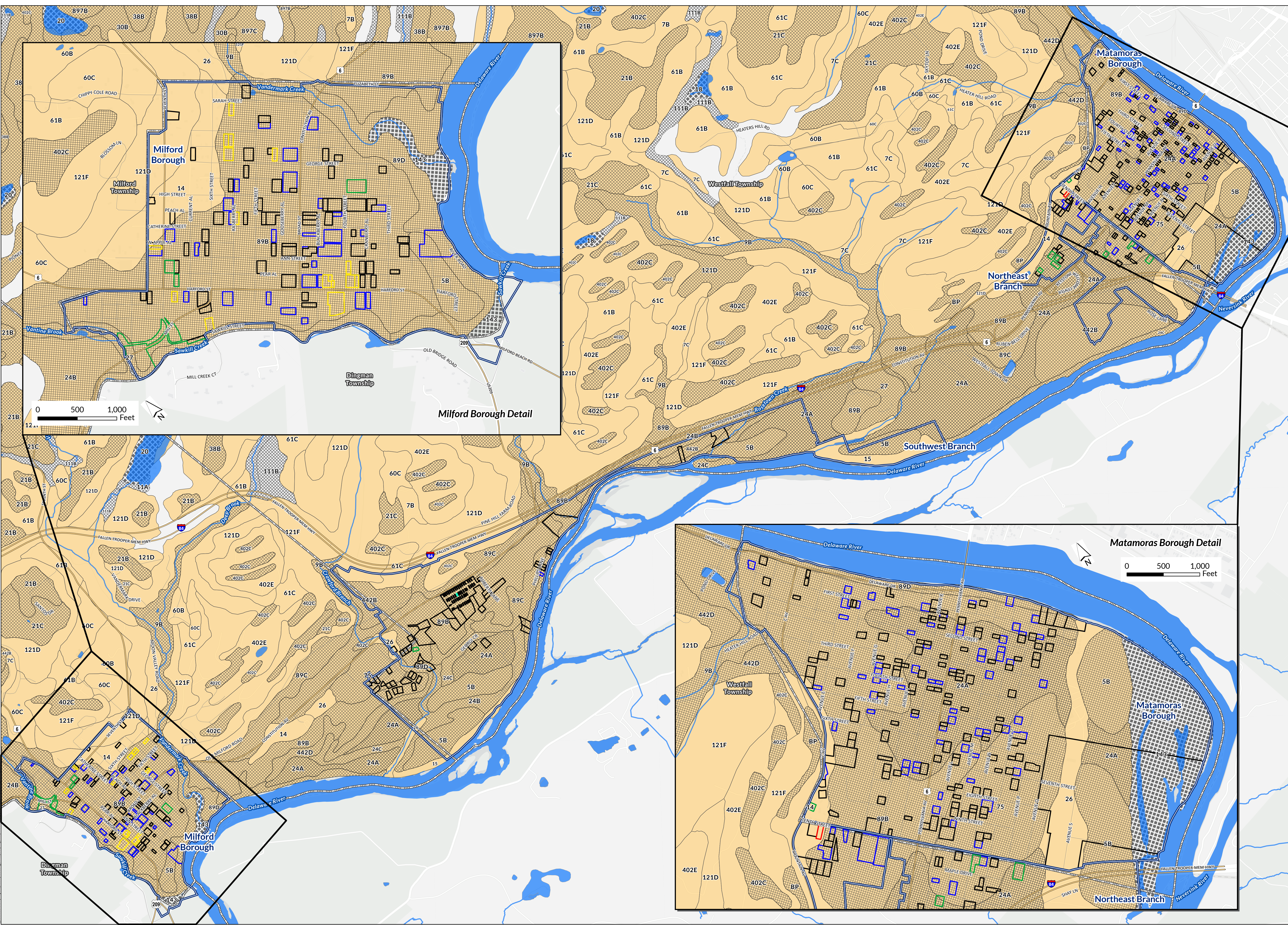
OLDS Type

- Cesspool (105)
- Septic Tank (254)
- None (15)
- Elevated Sand Mound (13)
- Community System (1)
- Dry Well (1)

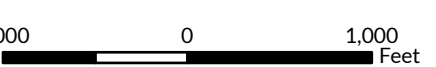
- Suitable for Conventional In-Ground systems
- Unsuitable for Any System

- Suitable for Elevated Sand Mound
- Study Areas
- Interstate
- State Roads
- Local Roads
- Municipal Boundary
- Waterbody

Soil type 27 is marginal for conventional and suitable for sand mound



Soil data from USDA NRCS Web Soil Survey 2020



Mapping derived from data provided by ESRI, PennDOT, Pike County, USDA NRCS, and USGS.

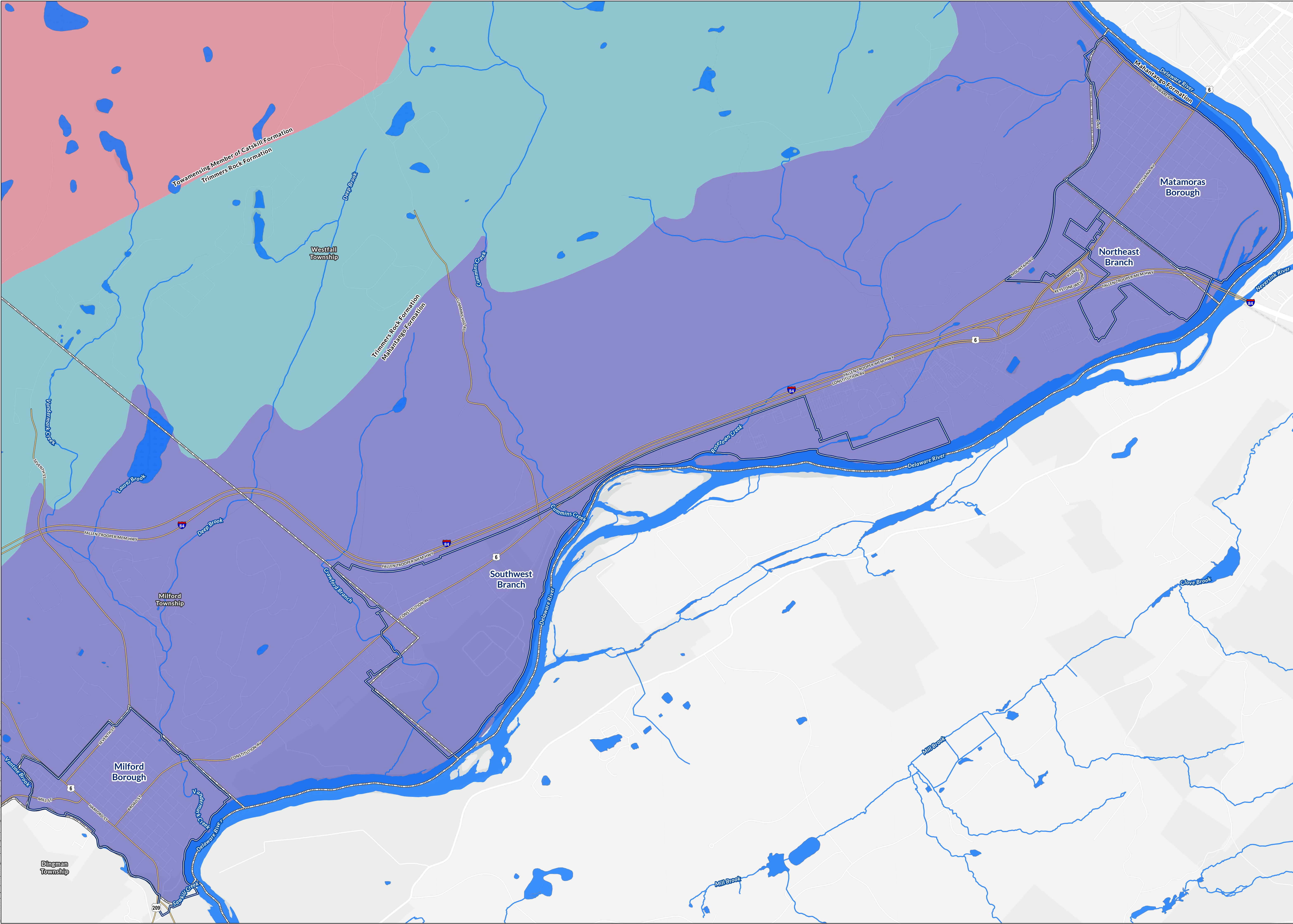
9/26/2024 PM: MR GIS: ALV QA: MR R003054-0448

Geology

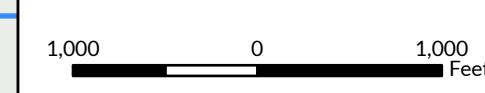
Map 6

Pike County, Pennsylvania

- Study Areas
- Geologic Formations
 - Mahantango Formation
 - Towamensing Member of Catskill Formation
 - Trimmers Rock Formation
- Interstate
- State Roads
- Municipal Boundary
- Waterbody



Geology data from PA DCNR, 2020










Mapping derived from data provided by ESRI, PennDOT, Pike County, PA DCNR, and USGS.

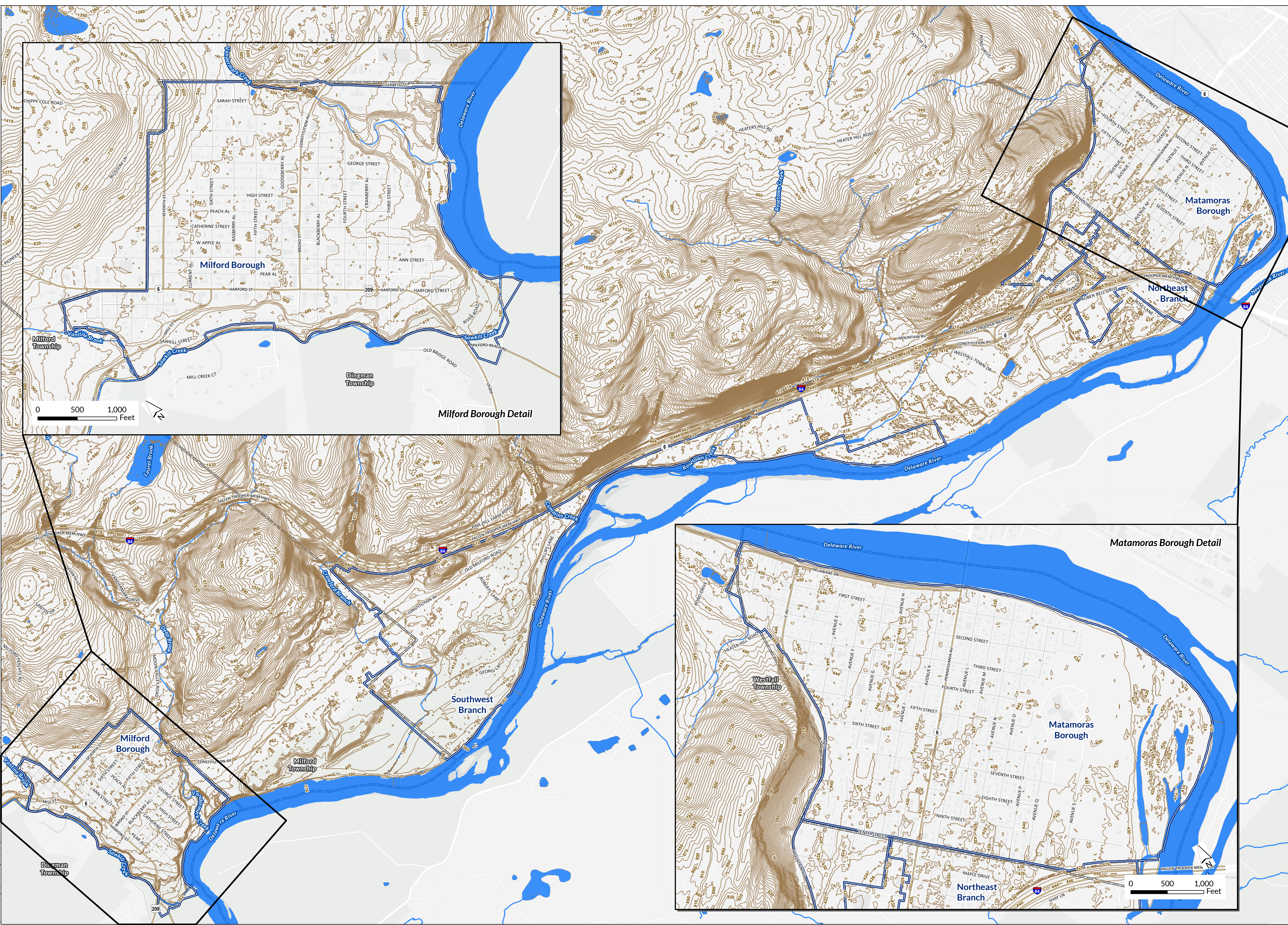
8/29/2024 PM: MR GIS: ALV QA: MR R003054.0448

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\\SRV16803\proj\GIS\2024\08\05\Map6_Geology_PikeCounty_PA.mxd

-  Study Areas
-  10ft contours
-  Waterbody
-  Municipal Boundary
-  Interstate
-  State Roads
-  Local Roads



0 500 1,000
Feet

Milford Borough Detail

Matamoras Borough Detail

0 500 1,000
Feet

Soil data from USDA NRCS
Web Soil Survey
Accessed 2024-08-28
Tabular: Version 16, Sep 7, 2023
Spatial: Version 4, Sep 17, 2019

1:000 0 1:000
Feet

OLDS Status and Sampling Results

Map 8

Pike County, Pennsylvania

HRG Survey and Sampling Results

On-Lot Malfunction Status

- No Malfunction (208)
- Suspected (187)
- Confirmed (16)

Well Water Nitrate-Nitrite (mg/L)

- < 1 mg/L (11)
- < 2.5 mg/L (13)
- Not Detected (8)

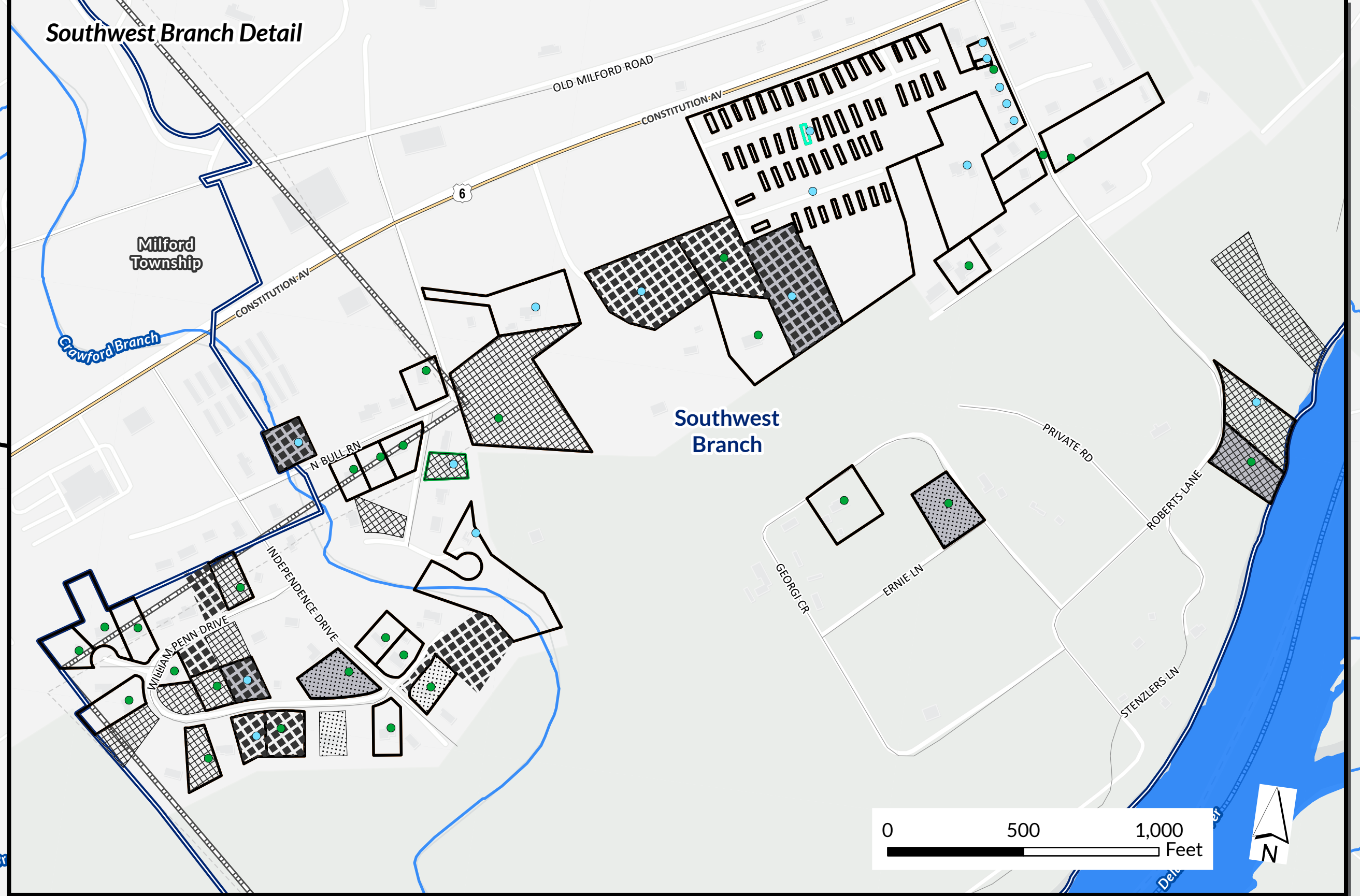
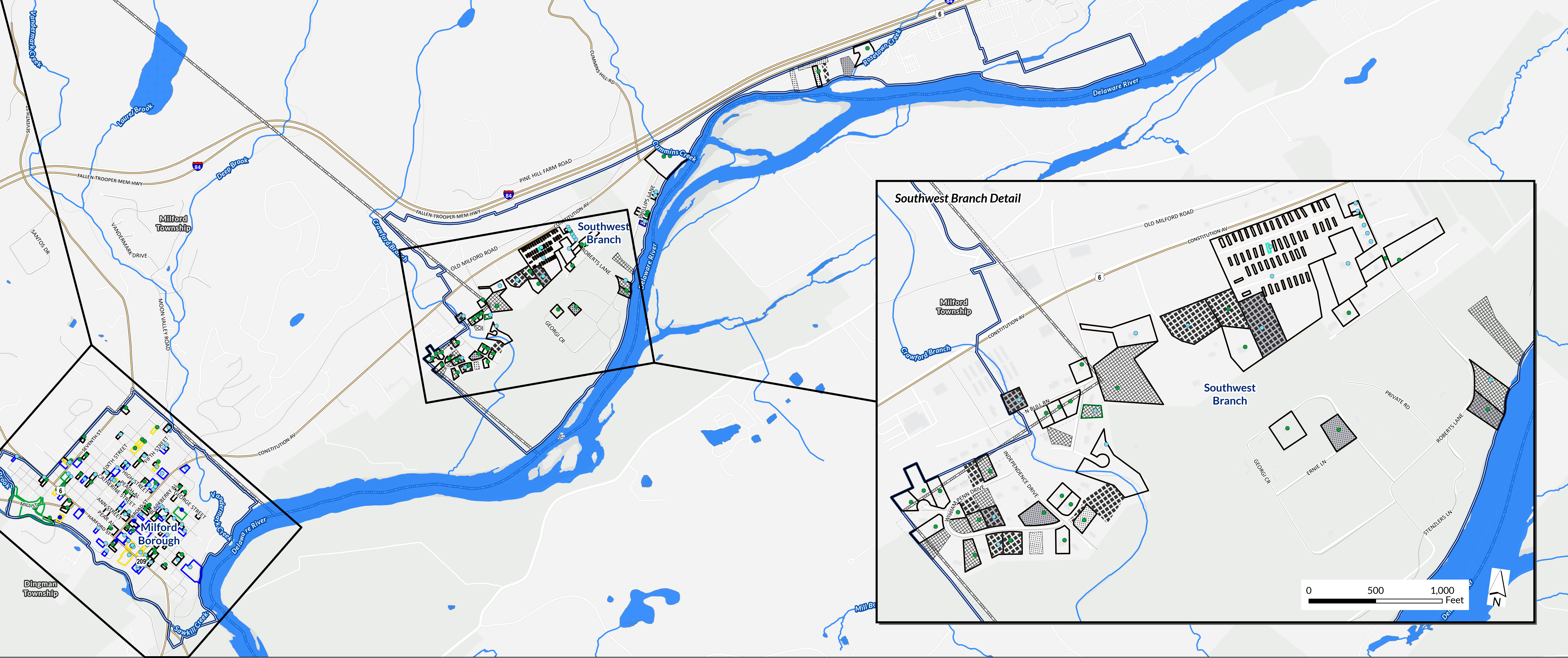
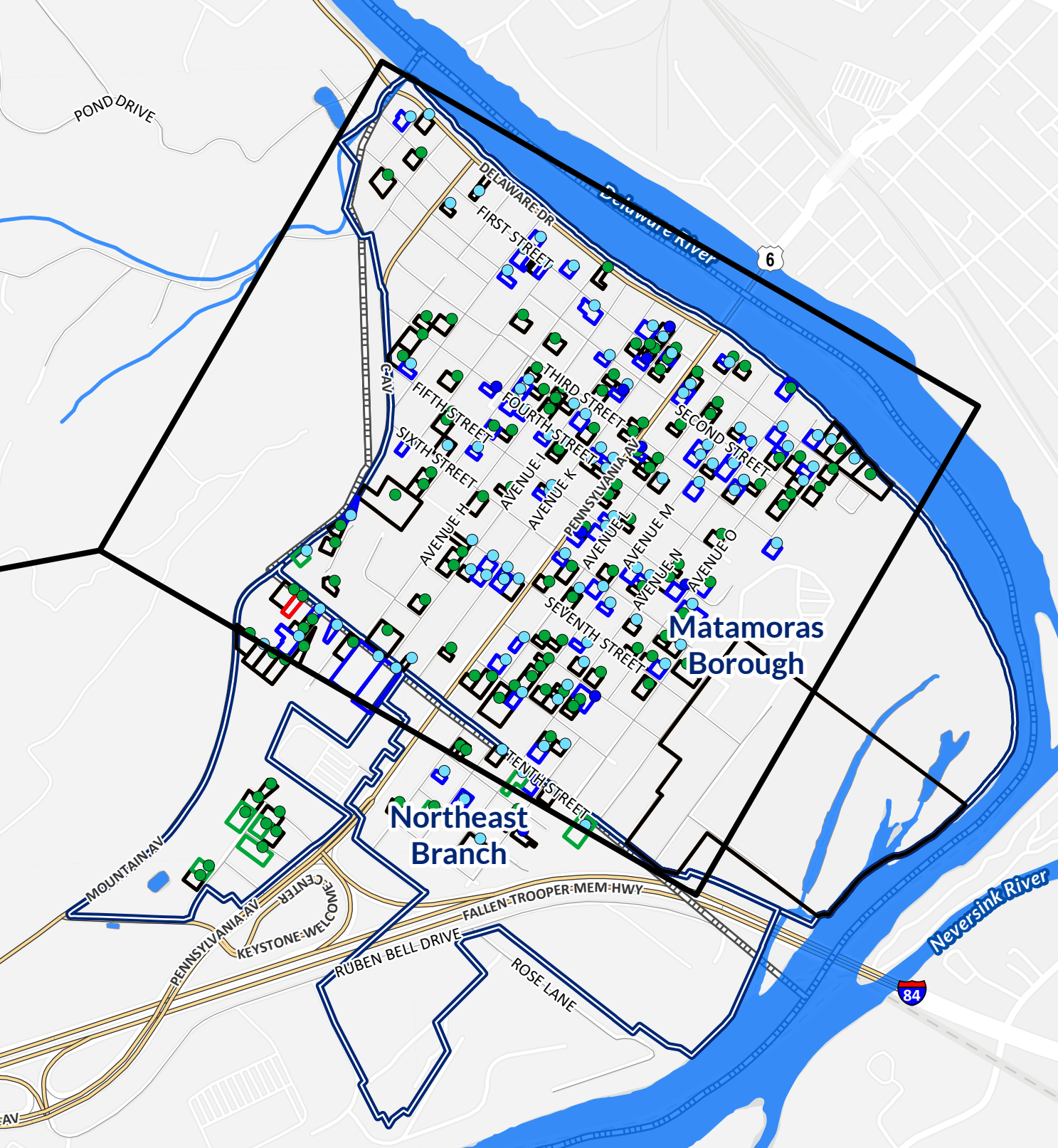
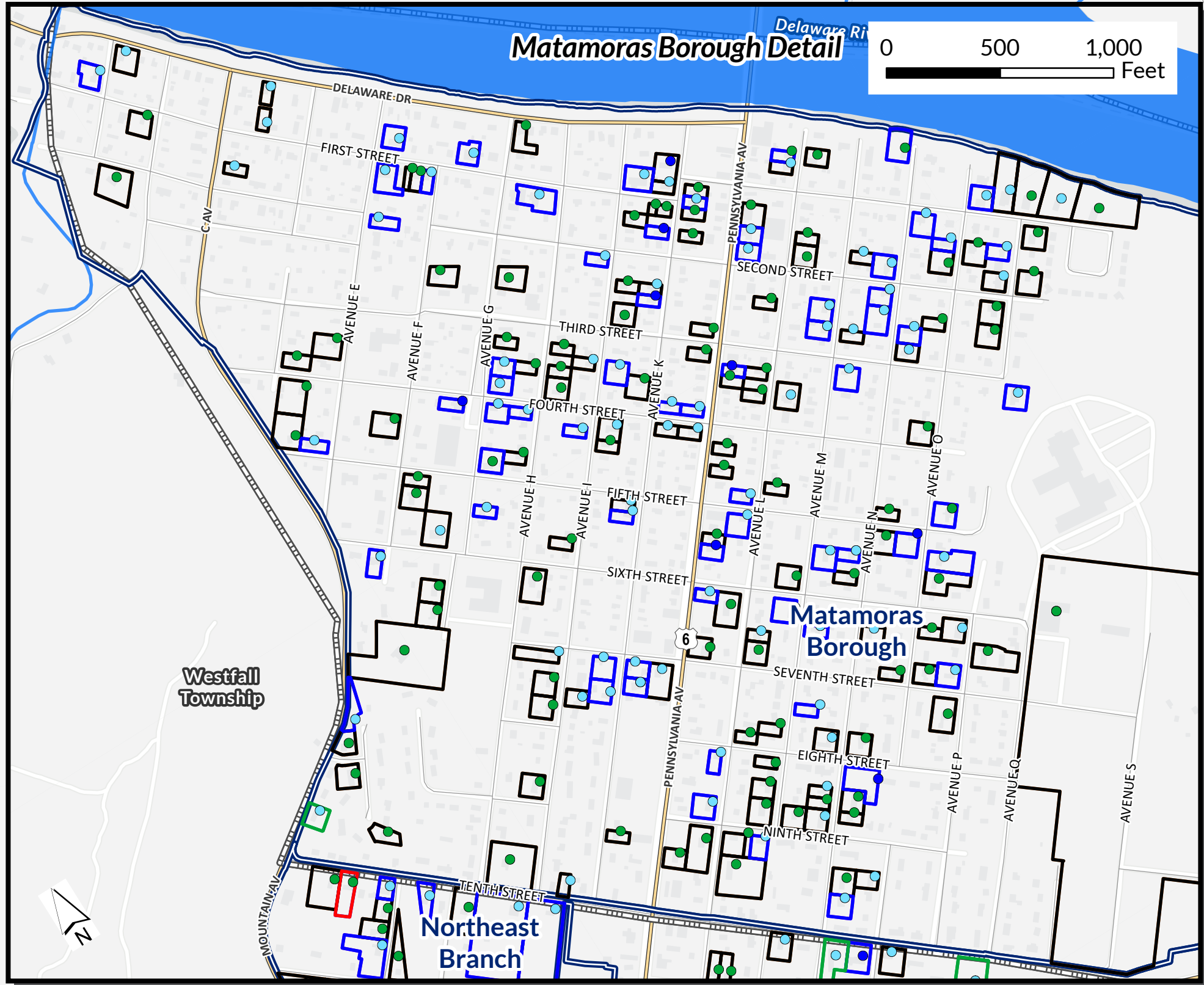
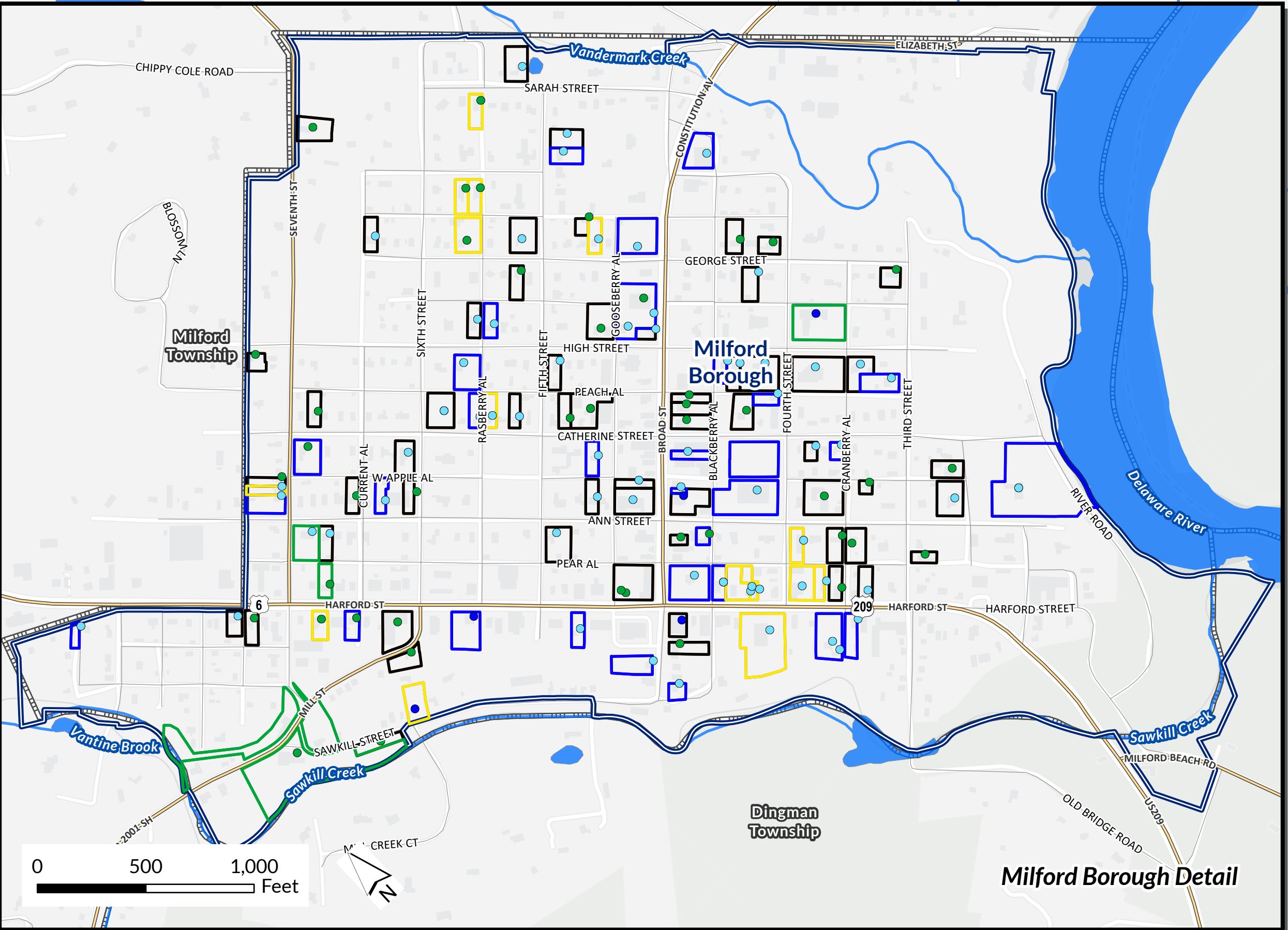
Well Water (Total Coliform)

- Present (7)

OLDS Type

- Septic Tank (254)
- Cesspool (105)
- Other (15)
- Elevated Sand Mound (13)
- Community System (1)
- Dry Well (1)

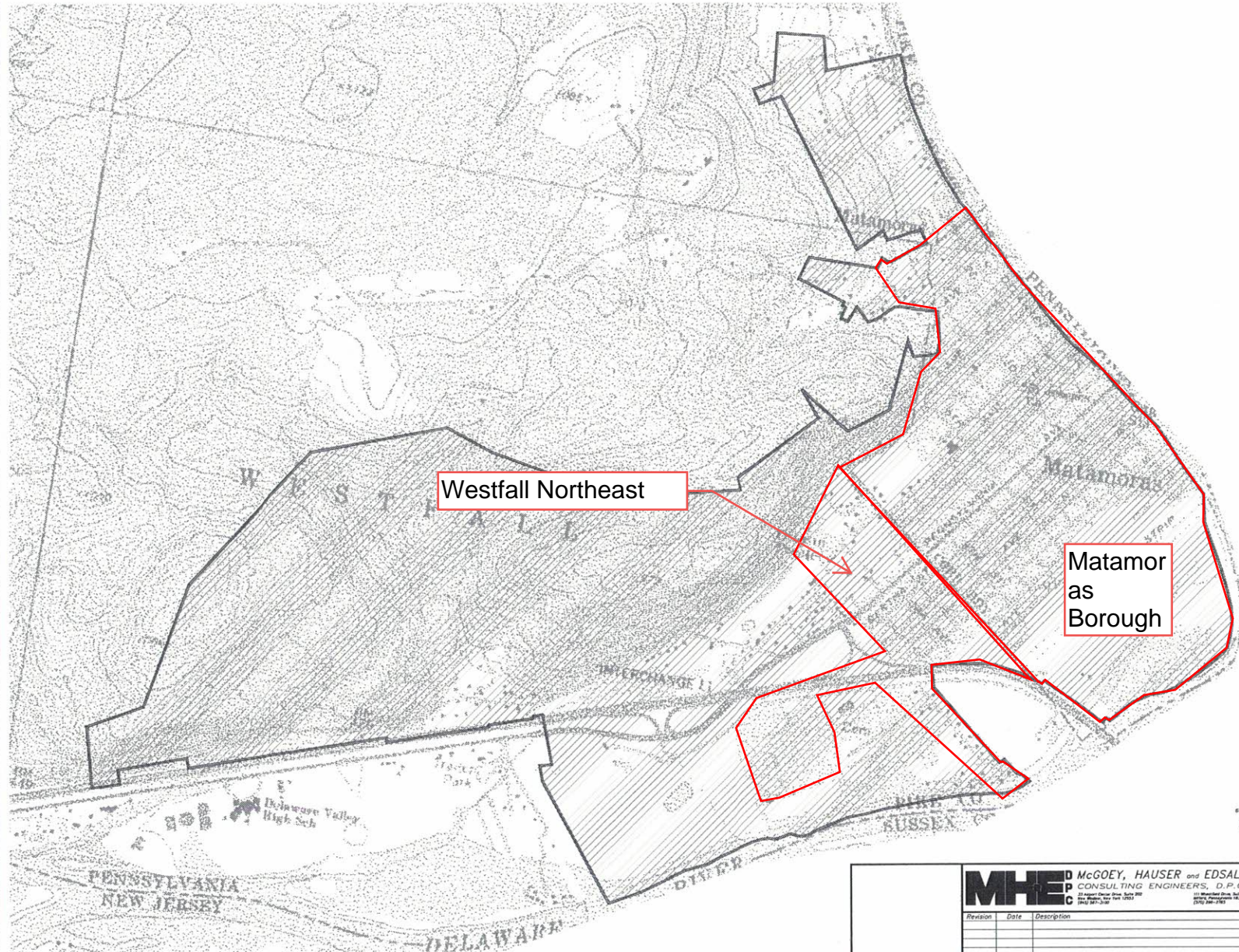
- Waterbody
- Interstate
- State Roads
- Local Roads
- Municipal Boundary
- Study Areas



1,000 0 1,000 Feet

Mapping derived from data provided by ESRI, PennDOT, Pike County, USDA NRCS, and USGS.

9/27/2024 PM: MR GIS: ALV QA: MR R003054.0448



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MHEC McGOEY, HAUSER and EDSALL CONSULTING ENGINEERS, D.P.C. <small>1100 North 10th Street, Suite 200 Matamoras, PA 18204 (610) 261-2100</small>			Plans for: MATAMORAS MUNICIPAL AUTHORITY Matamoras Borough & Westfall Township, Pike County, PA																																														
			Design: M.S.S. Drawn: H.P.B. Eng. Checked: Reviewed: Date: 3/1/98 Job No: 87-180 Task No: 00-00																																														
<table border="1"> <thead> <tr> <th>Revision</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Revision	Date	Description													<table border="1"> <thead> <tr> <th> </th> <th> </th> <th> </th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>																	<table border="1"> <thead> <tr> <th> </th> <th> </th> <th> </th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>																
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Westfall- Southwest

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Milford Water Authority
WATER SYSTEM INDEX MAP
 Date: June 2015

Milford Borough
 Planning Area

LEGEND

BB	BLUE BRUTE/C-900 PVC
CI	CAST IRON
CU	COPPER
DI	DUCTILE IRON
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
W	WATER (MAIN)
⊕	FIRE HYDRANT
⊘	GATE VALVE
→	FLOW ARROW
∞	BLOWOFF

Color Coding Legend
 Link Diameter (in)

Green	<= 4.0
Blue	<= 6.0
Orange	<= 8.0
Red	<= 10.0
Dark Red	<= 12.0