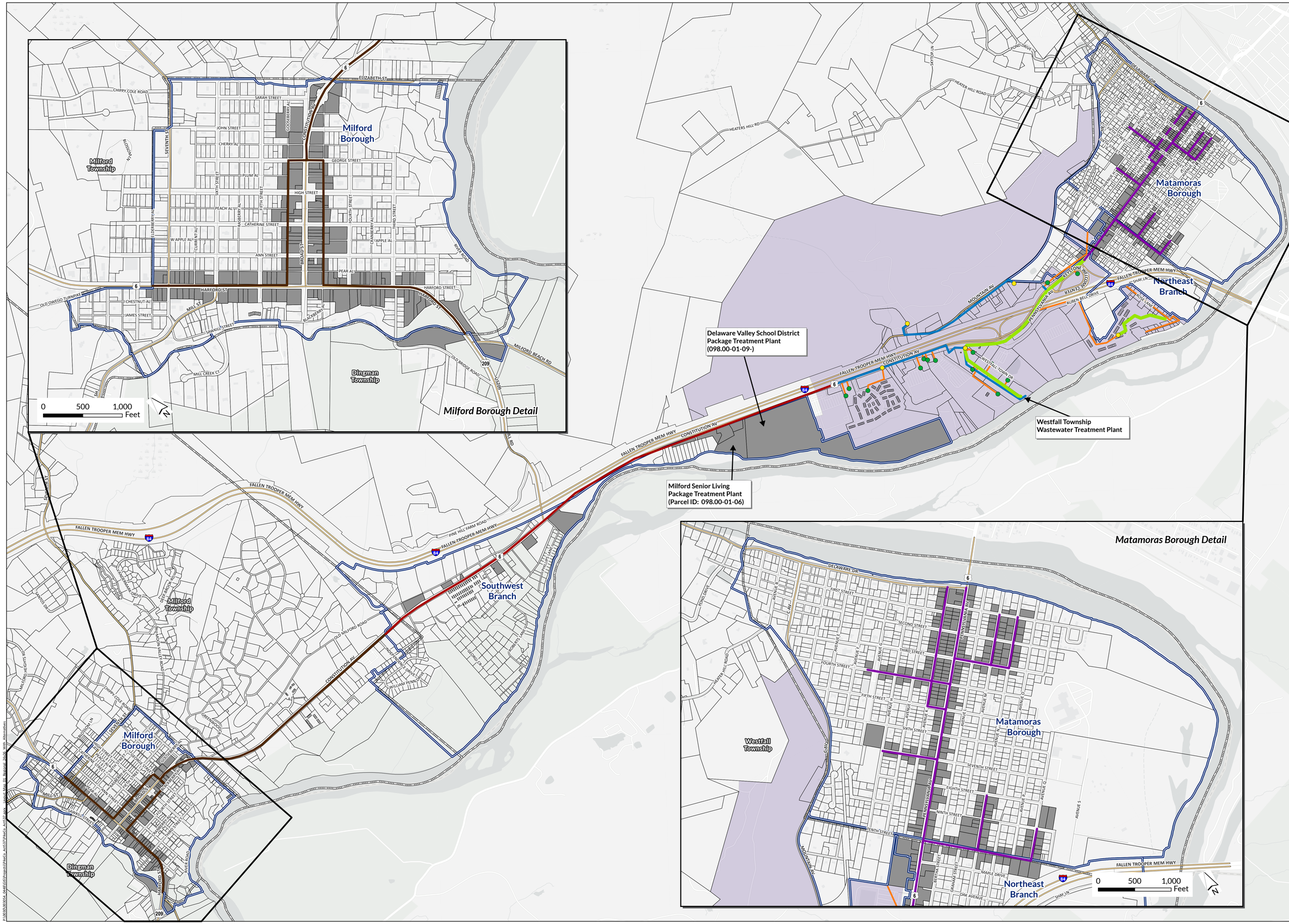
B

Exhibit B: Municipal Mapping



Planning Study Area Map

Map 1

Pike County, Pennsylvania

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
- Alternative 1B 4" Low pressure main
- Alternative 3B 6" Low pressure main
- Alternative 4B 4" Low pressure main
- Interstate
- State Roads
- Local Roads
- Parcel Boundaries
- Municipal Boundary
- Study Areas
- Proposed Sewer Service Area
- Existing Sanitary Sewer Service Area

1,000 0 1,000 Feet

N

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

9/26/2025	PM: MR	GIS: ALV	QA: MR	R003054.0448

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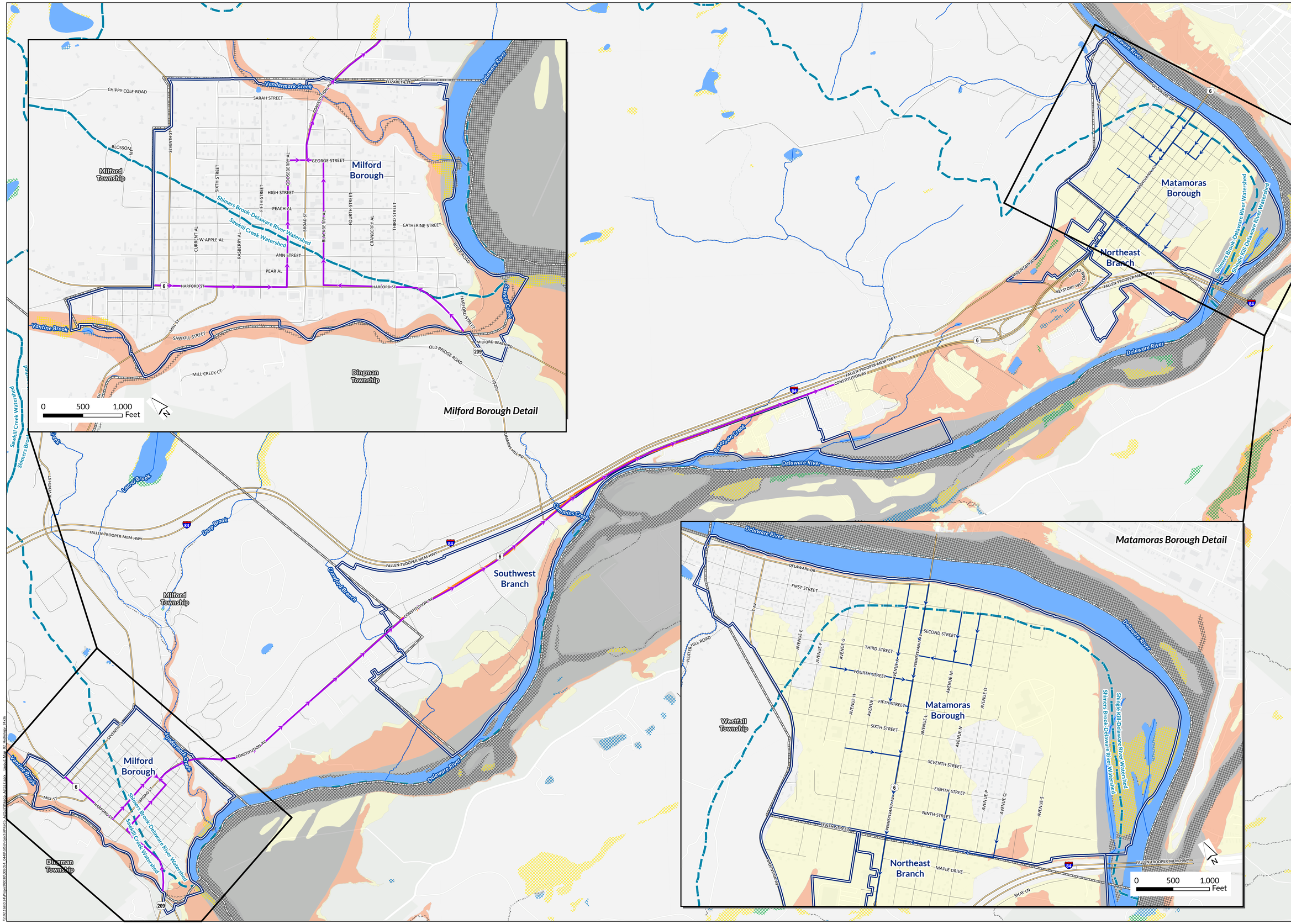

Hydrology

Map 2

Pike County, Pennsylvania

- 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

Floodplain Data from FEMA National Flood Hazard Layer

Wetlands from US Fish & Wildlife Service

1,000 0 1,000 Feet

N

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

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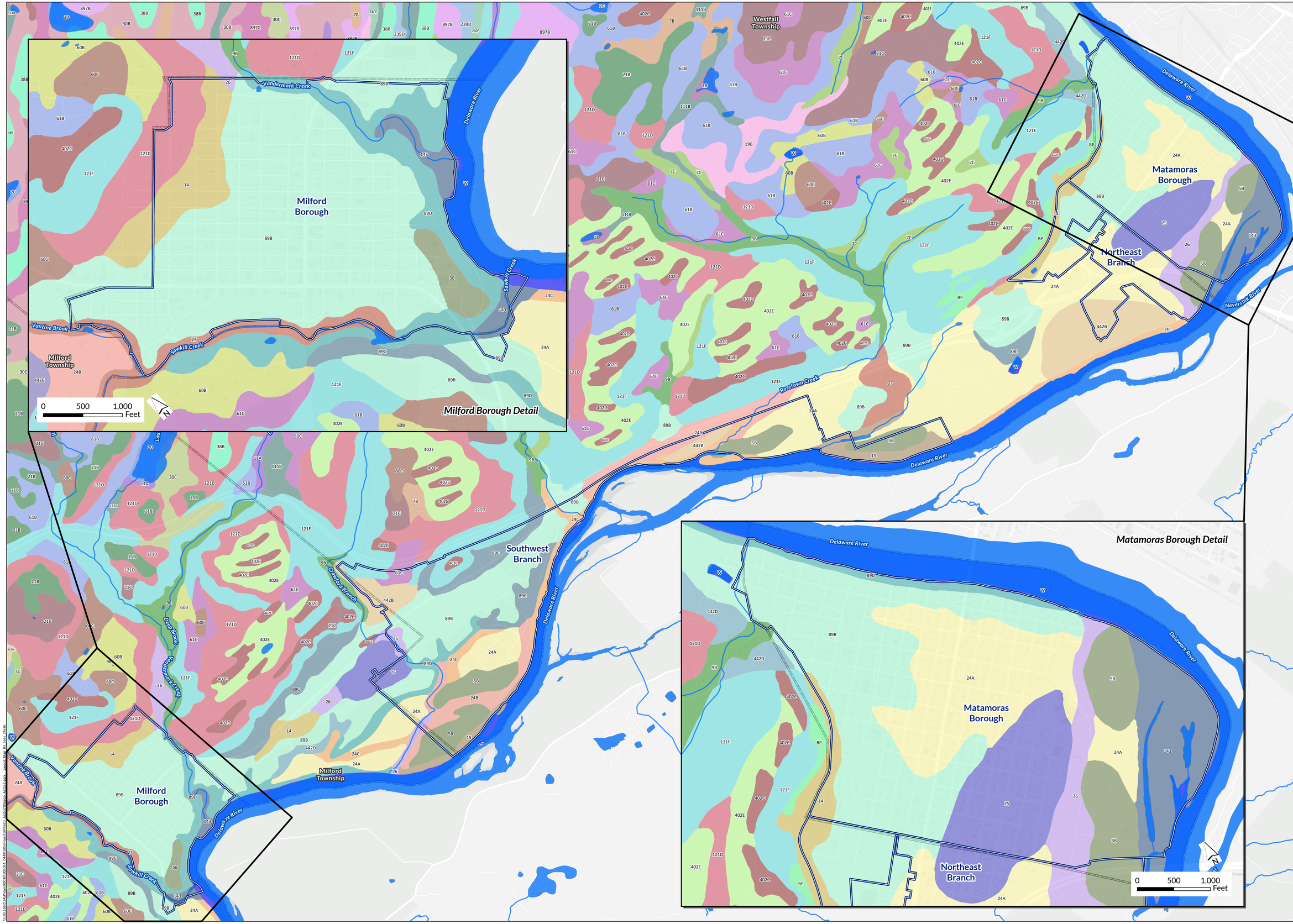

Soils

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

N

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

8/28/2024	PM: MR	GIS: ALV	QA: MR	R003054.0448

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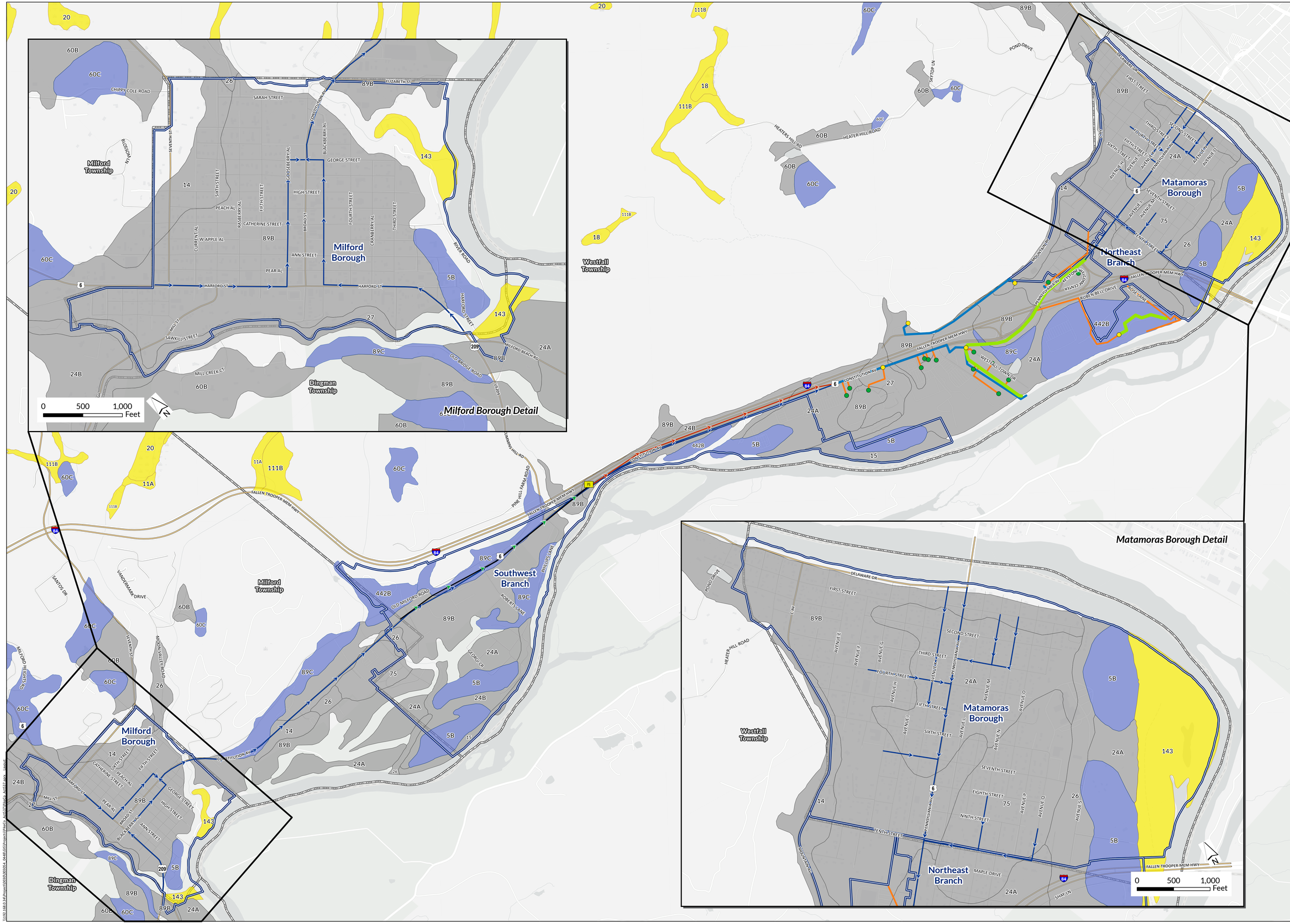

Soil Designations

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

1,000 0 1,000 Feet

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

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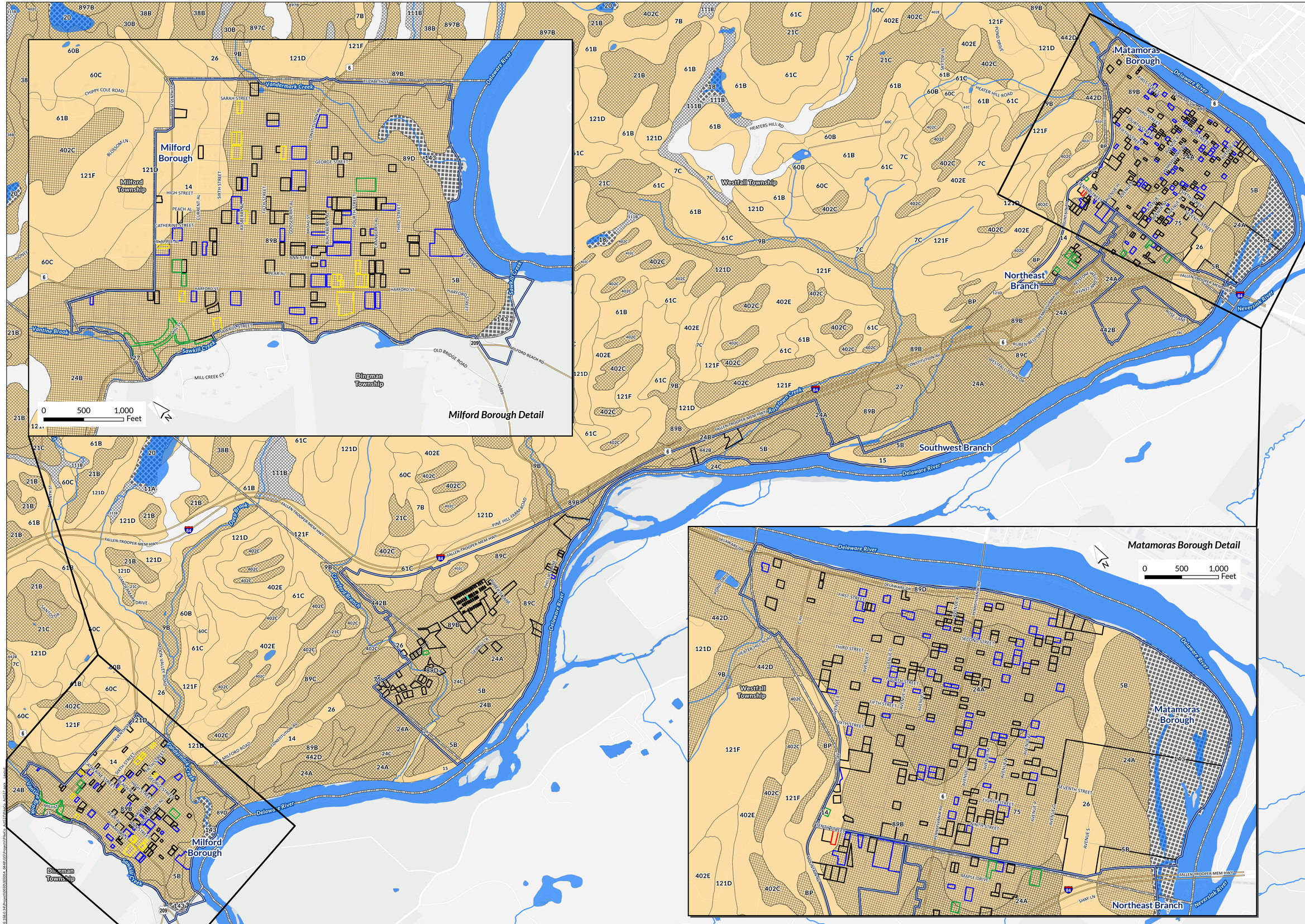

Soil Suitability

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

1,000 0 1,000 Feet

N

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

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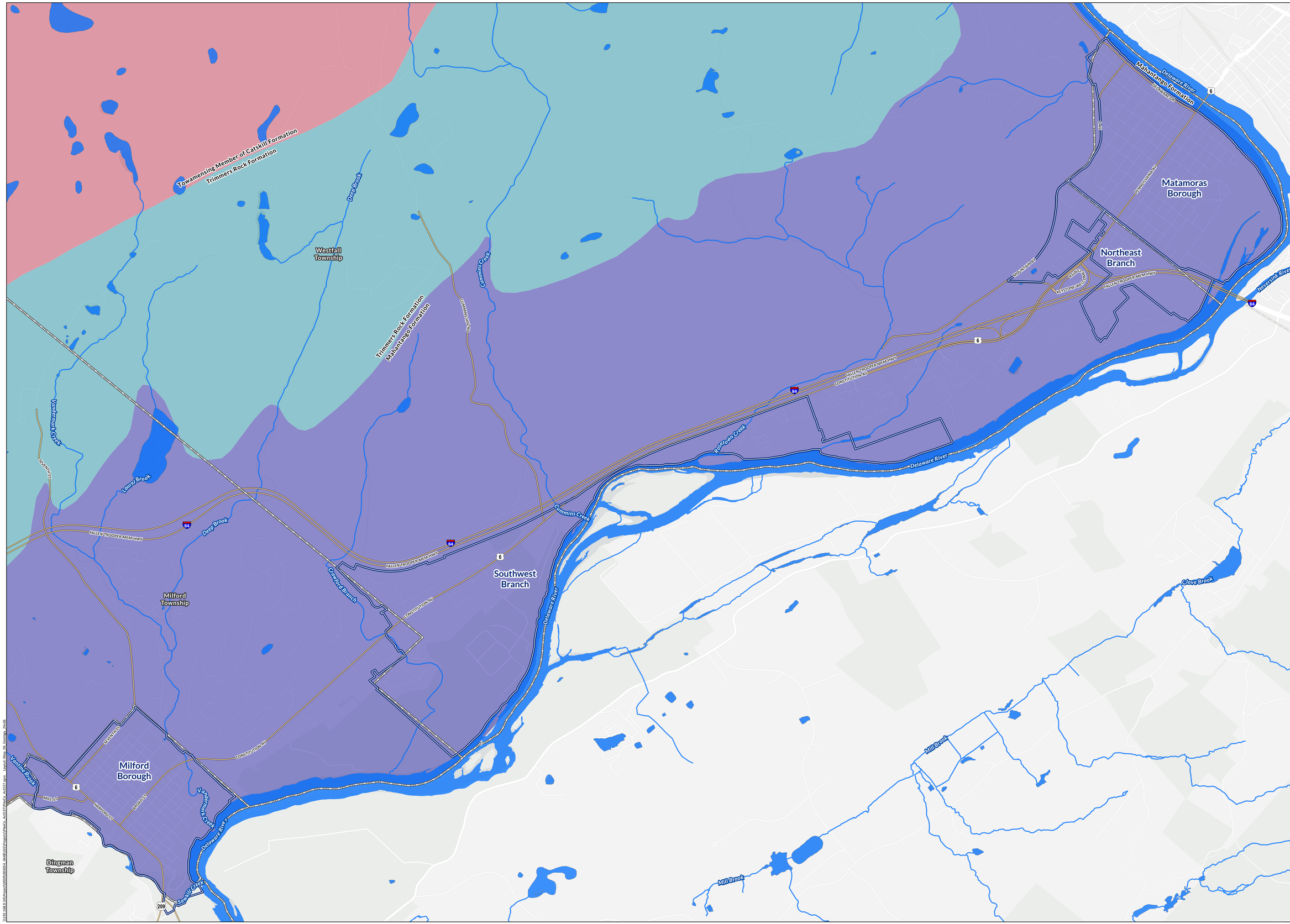

Geology

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

1,000 0 1,000 Feet

N

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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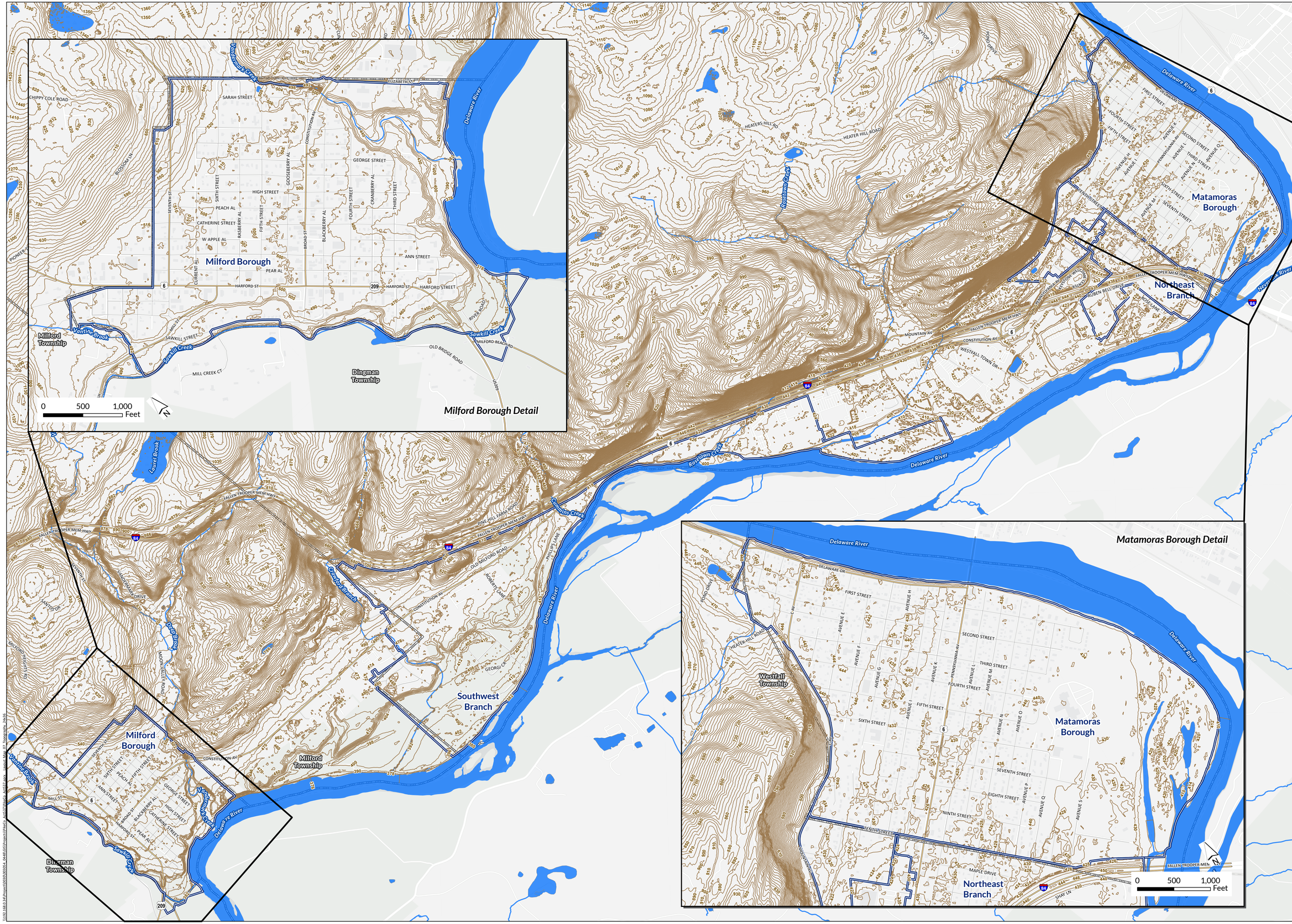

Topography

Map 7

Pike County, Pennsylvania

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

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

N

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

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

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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)
- None (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

N

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

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Milford Borough Detail

0 500 1,000 Feet

Milford Township
Milford Borough
Dingman Township
Vandermark Creek
Sawkill Creek
Ventine Brook
Delaware River
CHIPPY COLE ROAD
SARAH STREET
ELIZABETH ST
GEORGE STREET
HIGH STREET
BEACH AL
CATHERINE STREET
ANN STREET
PEAR AL
HARFORD ST
HARFORD STREET
SAWKILL STREET
MILFORD BEACH RD
OLD BRIDGE ROAD
CREEK CT
WYKE ROAD
SEVENTH ST
SIXTH STREET
FIFTH STREET
FOURTH STREET
THIRD STREET
BROAD ST
CONSTITUTION AV
GOOSEBERRY AL
BLACKBERRY AL
CRANBERRY AL
RASPBERRY AL
CURRENT AL
WHORTLE AL
BLOSSOM LN

Matamoras Borough Detail

0 500 1,000 Feet

Matamoras Borough
Westfall Township
Northeast Branch
Delaware River
DELAWARE DR
FIRST STREET
SECOND STREET
THIRD STREET
FOURTH STREET
FIFTH STREET
SIXTH STREET
SEVENTH STREET
EIGHTH STREET
NINTH STREET
PENNSYLVANIA AV
AVENUE E
AVENUE F
AVENUE G
AVENUE H
AVENUE I
AVENUE K
AVENUE L
AVENUE M
AVENUE N
AVENUE O
AVENUE P
AVENUE S
MOUNTAIN AV
FALLEN TRAVELER MEM HWY

Southwest Branch Detail

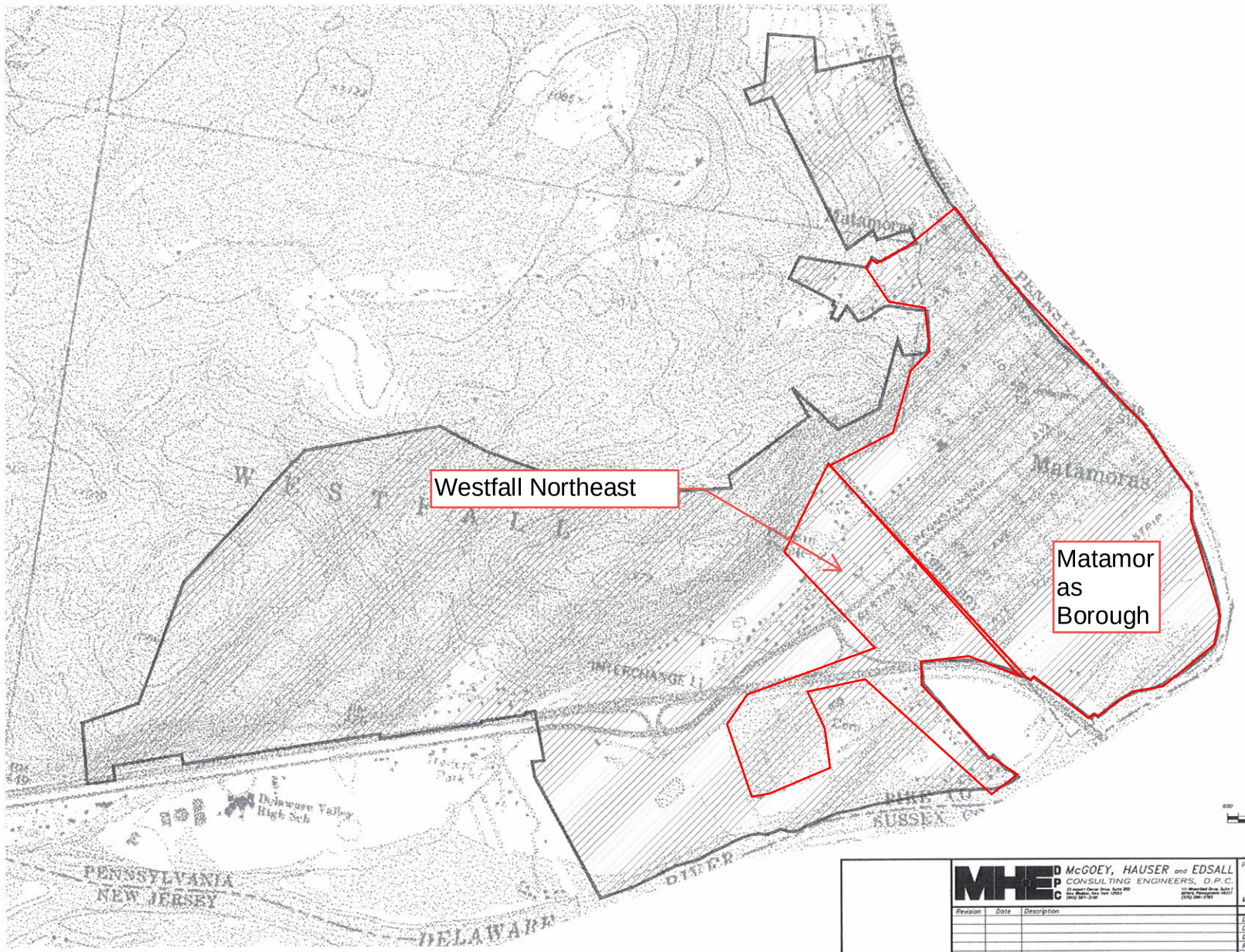
0 500 1,000 Feet

Southwest Branch
Milford Township
Crawford Branch
Delaware River
OLD MILFORD ROAD
CONSTITUTION AV
ROBERTS LANE
GEORGI CR
ERNIE LN
PRIVATE RD
STENZLERS LN
N BULL RD
INDEPENDENCE DRIVE
THOMAS BROWN DRIVE
PHILLIPS LANE
SANTOS DR
VANDERMARK DRIVE
MOON VALLEY ROAD
MILFORD HEIGHTS RD
PINE HILL FARM ROAD
FALLEN TRAVELER MEM HWY
Laurel Brook
Deep Brook
Cummins Creek
Dingman Township
Milford Borough
Vandermark Creek
Sawkill Creek
Delaware River
Mill Brook
Crawford Branch
Southwest Branch

Matamoras Borough

Matamoras Borough
Northeast Branch
Delaware River
Neversink River
POND DRIVE
FALLEN TRAVELER MEM HWY
KEYSTONE WEST TOWN
REUBEN BELL DRIVE
ROSE LANE
WESTFALL TOWN DR
MOUNTAIN AV
PENNSYLVANIA AV
SECOND STREET
THIRD STREET
FOURTH STREET
FIFTH STREET
SIXTH STREET
SEVENTH STREET
AVENUE E
AVENUE F
AVENUE G
AVENUE H
AVENUE I
AVENUE K
AVENUE L
AVENUE M
AVENUE N
AVENUE O
AVENUE P
AVENUE S

Map 9



GRAPHIC SCALE

600 0 300 600 1200 2400

1 inch = 600 feet +/-

McGOEY, HAUSER and EDSALL CONSULTING ENGINEERS, D.P.C.

Plans for: MATAMORAS MUNICIPAL AUTHORITY

Matamoras Borough & Westfall Township — Pike County, PA

Concept | Preliminary | Final | Construction

Revision	Date	Description

Design: M.J.S.
Drawn: H.P.B.Jr.
Dwg. Checked:
Reviewed:
Date: 5/1/18
Job No. 87-180 Task No. 00-00

WATER SUPPLY SERVICE AREA MAP

1

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