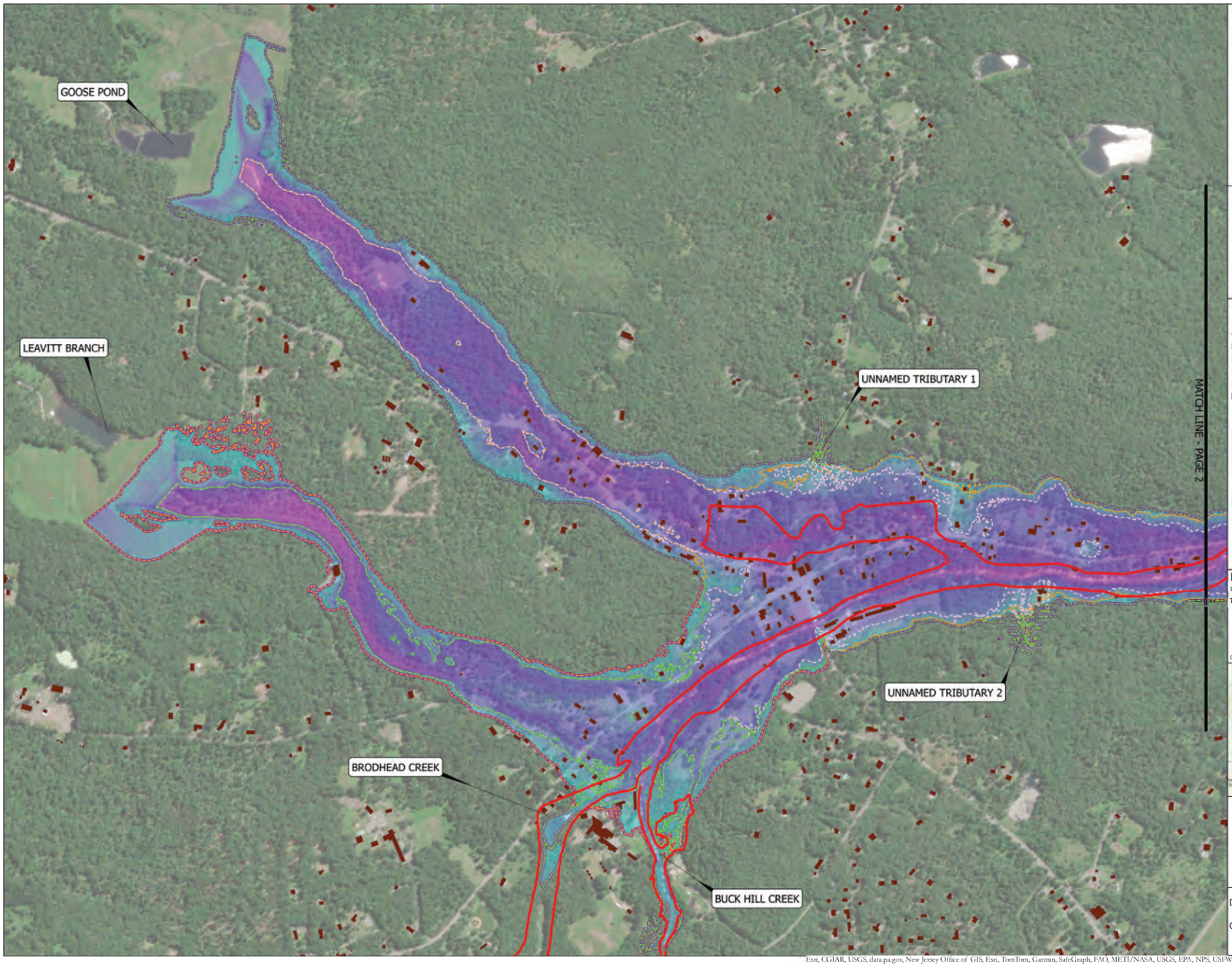


BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT INUNDATION MAP
PAGE 1 OF 5

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY GOOSE BREACH, LEAVITT DECOMMISSIONED
- INUNDATION BOUNDARY BOTH DAMS DECOMMISSIONED
- INUNDATION BOUNDARY LEAVITT BREACH, GOOSE DECOMMISSIONED
- INUNDATION BOUNDARY - BOTH DAMS BREACH

FBH - BOTH DAMS BREACHING INUNDATION DEPTH

VALUE
37 FT
30 FT
25 FT
20 FT
15 FT
10 FT
5 FT
0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



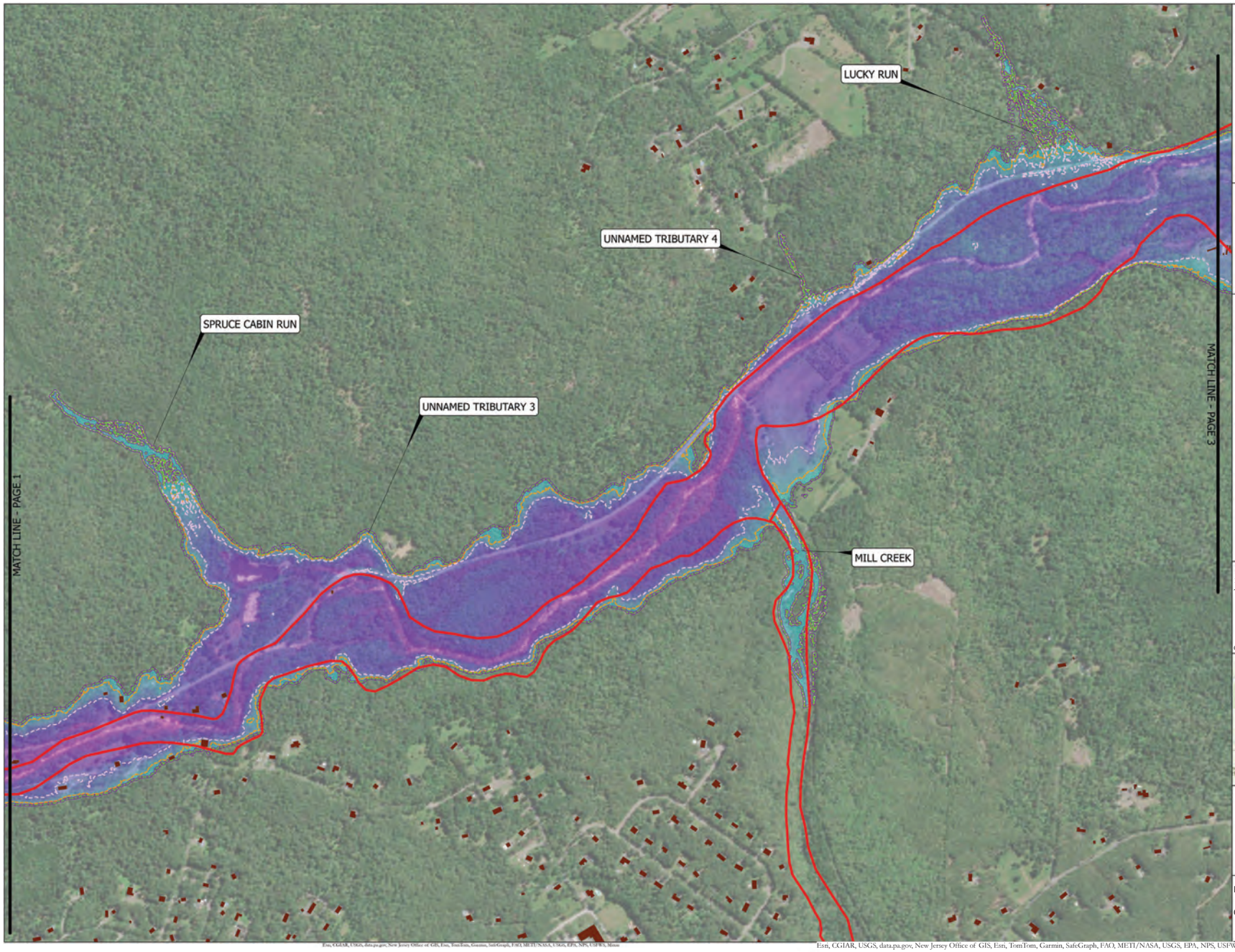
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT INUNDATION MAP

PAGE 2 OF 5

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY GOOSE BREACH, LEAVITT DECOMMISSIONED
- INUNDATION BOUNDARY BOTH DAMS DECOMMISSIONED
- INUNDATION BOUNDARY LEAVITT BREACH, GOOSE DECOMMISSIONED
- INUNDATION BOUNDARY - BOTH DAMS BREACH

FBH - BOTH DAMS BREACHING INUNDATION DEPTH

VALUE
- 37 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



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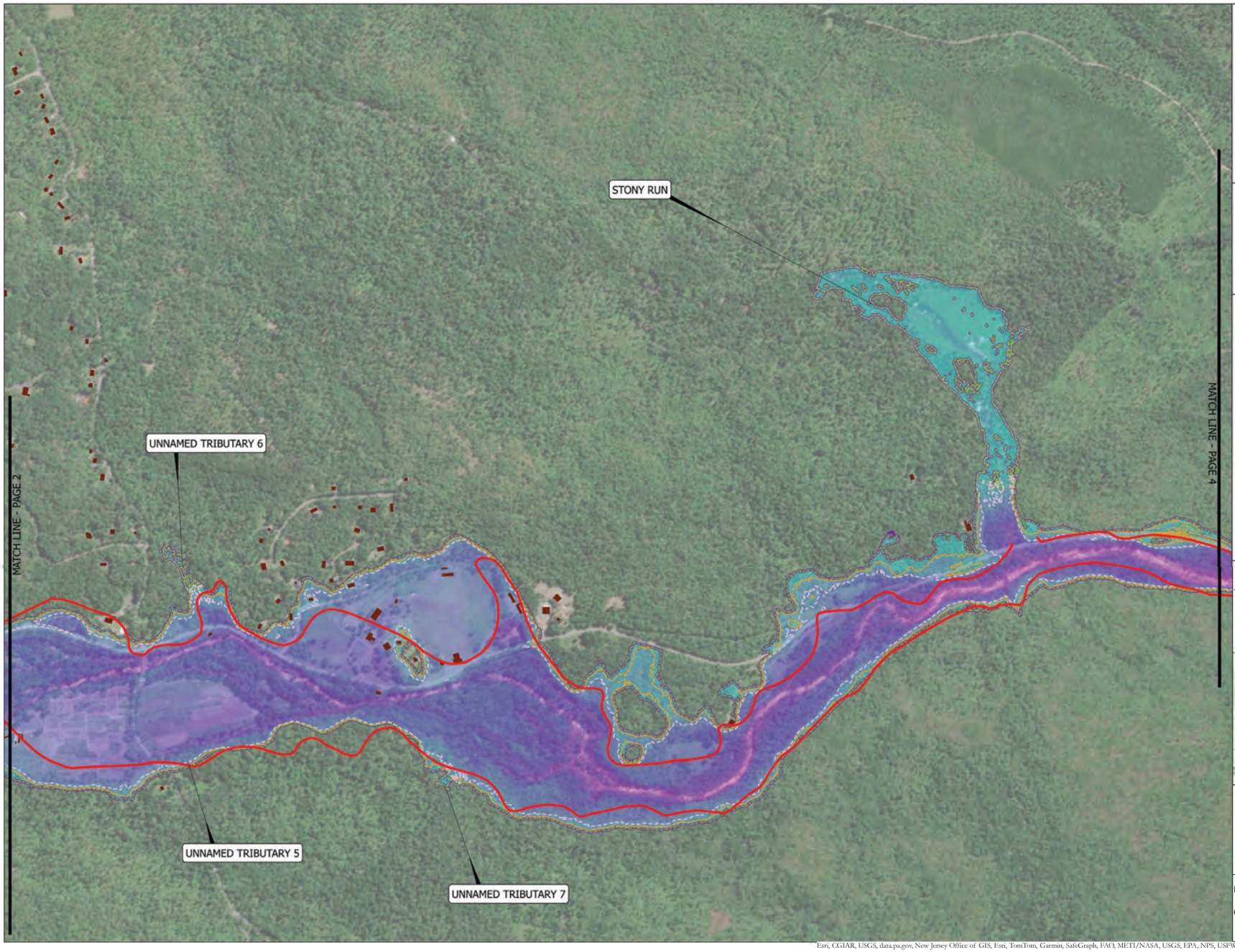
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT INUNDATION MAP

PAGE 3 OF 5

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY GOOSE BREACH, LEAVITT DECOMMISSIONED
- INUNDATION BOUNDARY BOTH DAMS DECOMMISSIONED
- INUNDATION BOUNDARY LEAVITT BREACH, GOOSE DECOMMISSIONED
- INUNDATION BOUNDARY - BOTH DAMS BREACH

FBH - BOTH DAMS BREACHING INUNDATION DEPTH

VALUE

- 37 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



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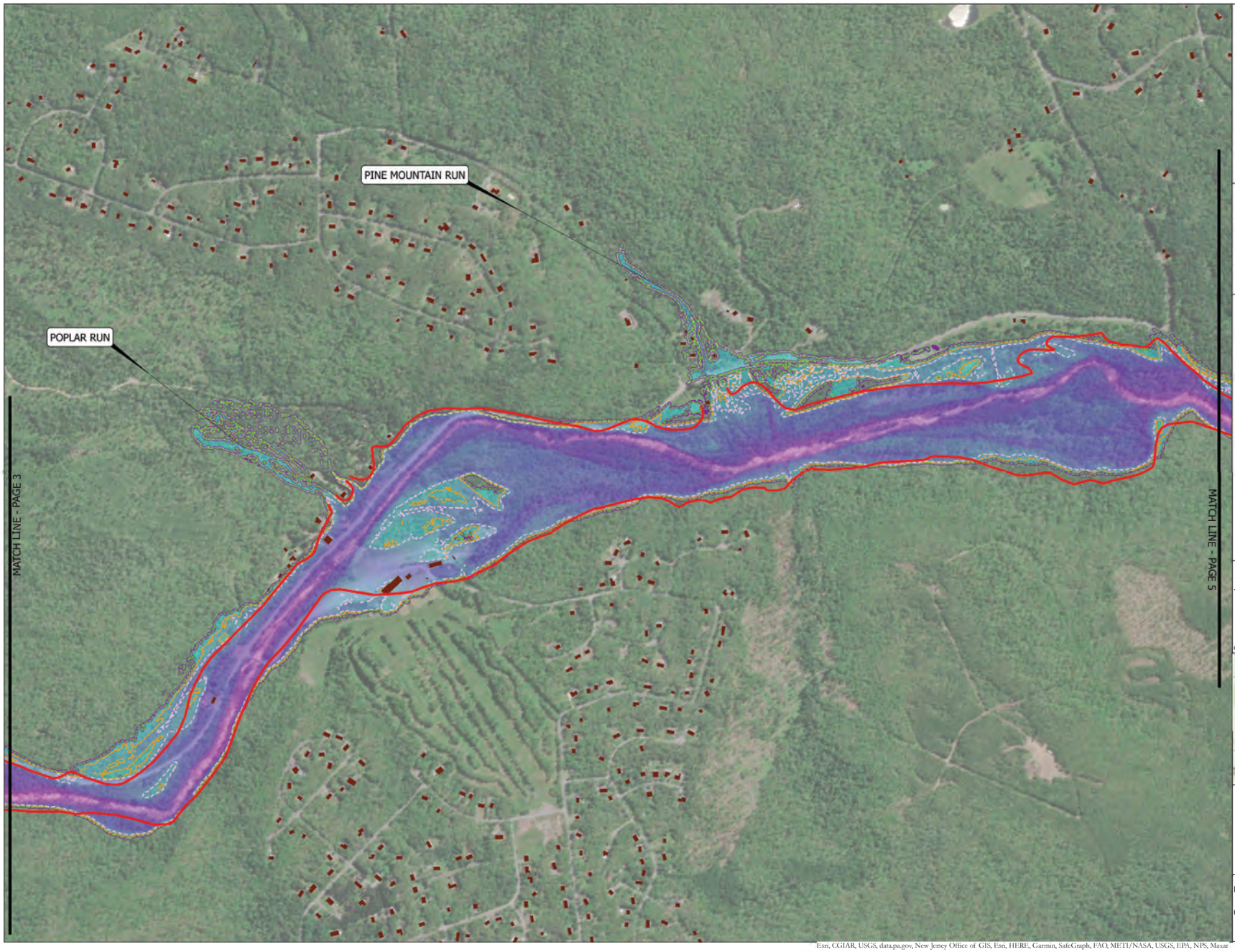
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT INUNDATION MAP

PAGE 4 OF 5

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY GOOSE BREACH, LEAVITT DECOMMISSIONED
- INUNDATION BOUNDARY BOTH DAMS DECOMMISSIONED
- INUNDATION BOUNDARY LEAVITT BREACH, GOOSE DECOMMISSIONED
- INUNDATION BOUNDARY - BOTH DAMS BREACH

FBH - BOTH DAMS BREACHING INUNDATION DEPTH

VALUE

- 37 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



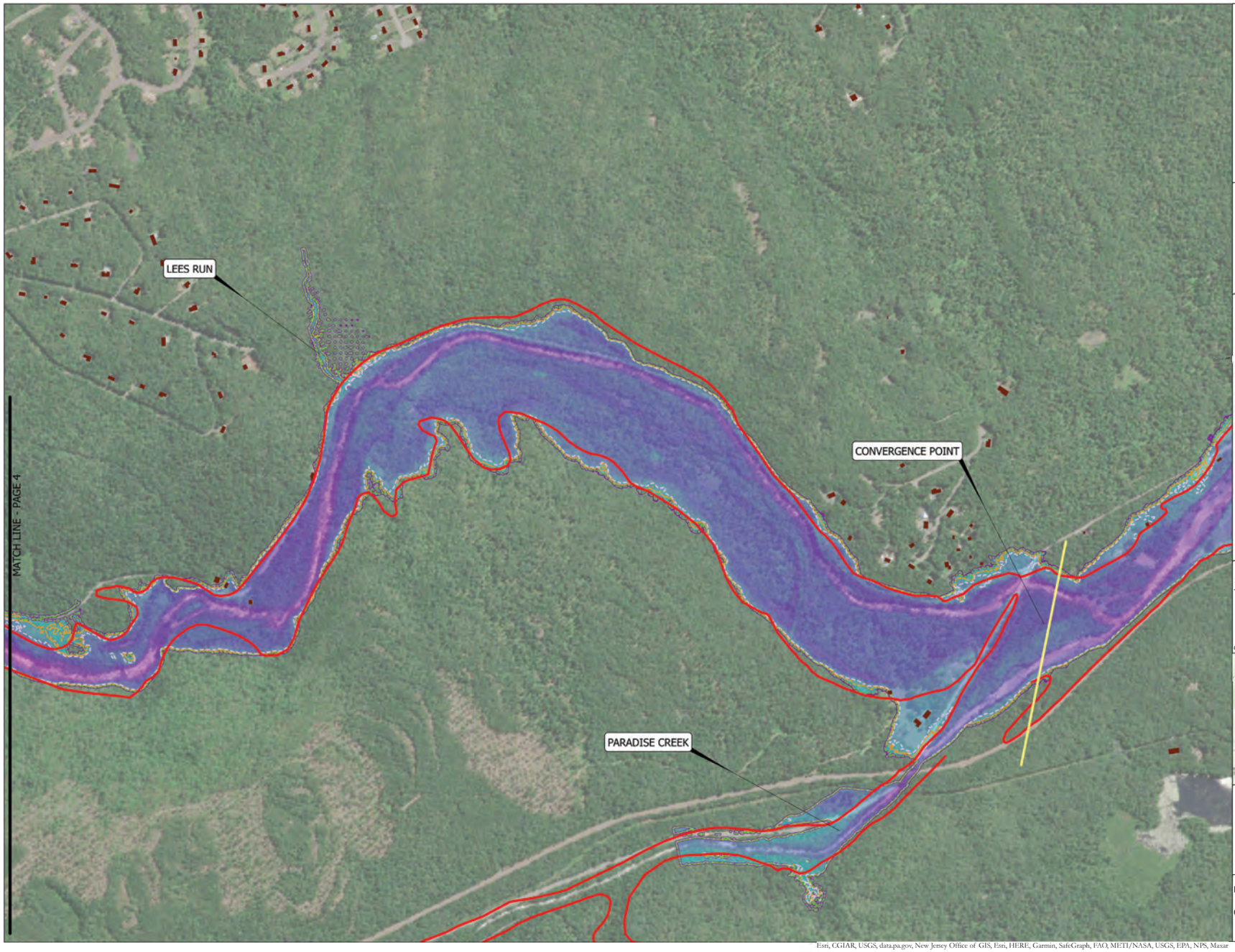
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT INUNDATION MAP

PAGE 5 OF 5

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY GOOSE BREACH, LEAVITT DECOMMISSIONED
- INUNDATION BOUNDARY BOTH DAMS DECOMMISSIONED
- INUNDATION BOUNDARY LEAVITT BREACH, GOOSE DECOMMISSIONED
- INUNDATION BOUNDARY - BOTH DAMS BREACH

FBH - BOTH DAMS BREACHING INUNDATION DEPTH

VALUE

- 37 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North

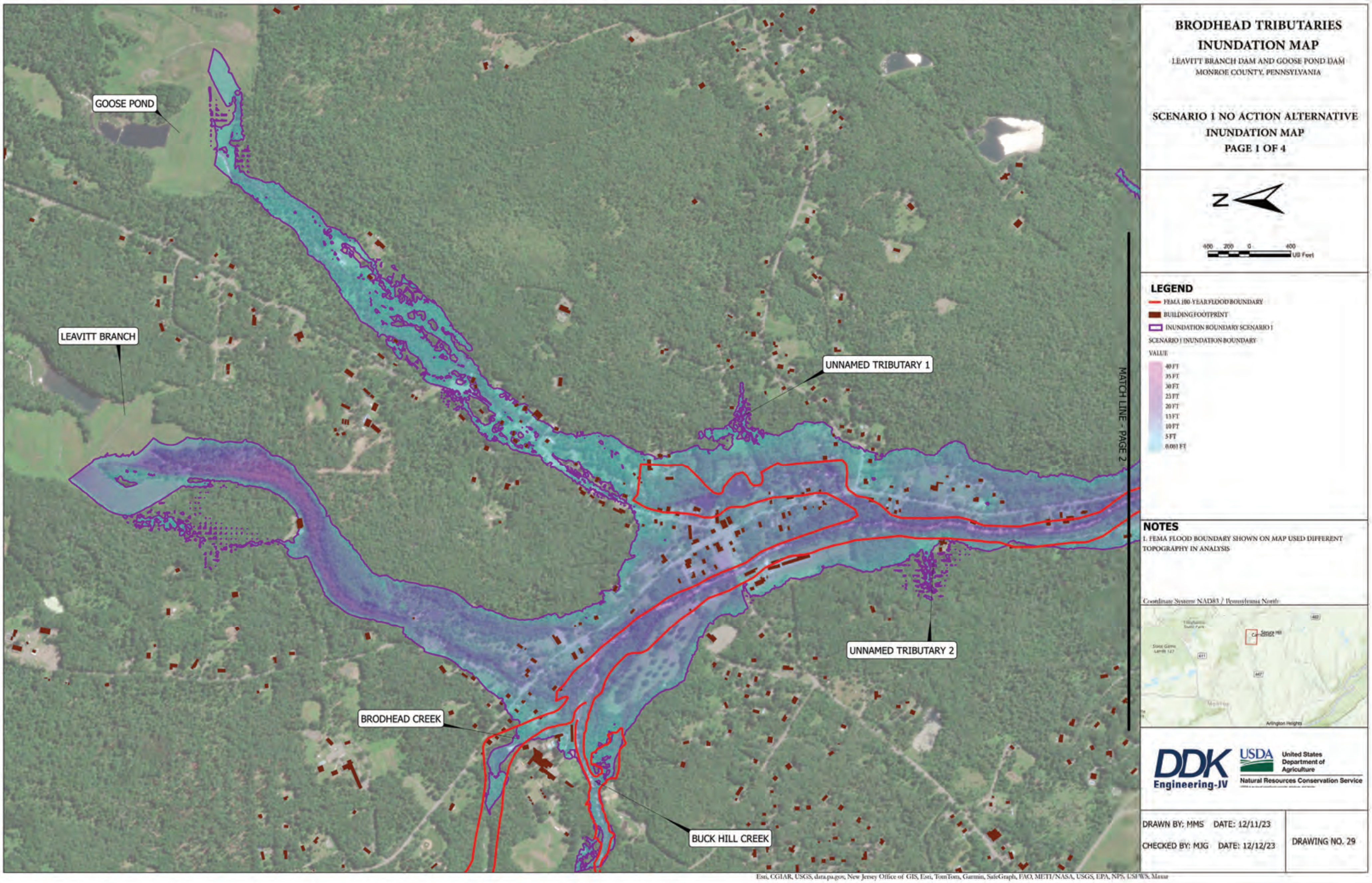


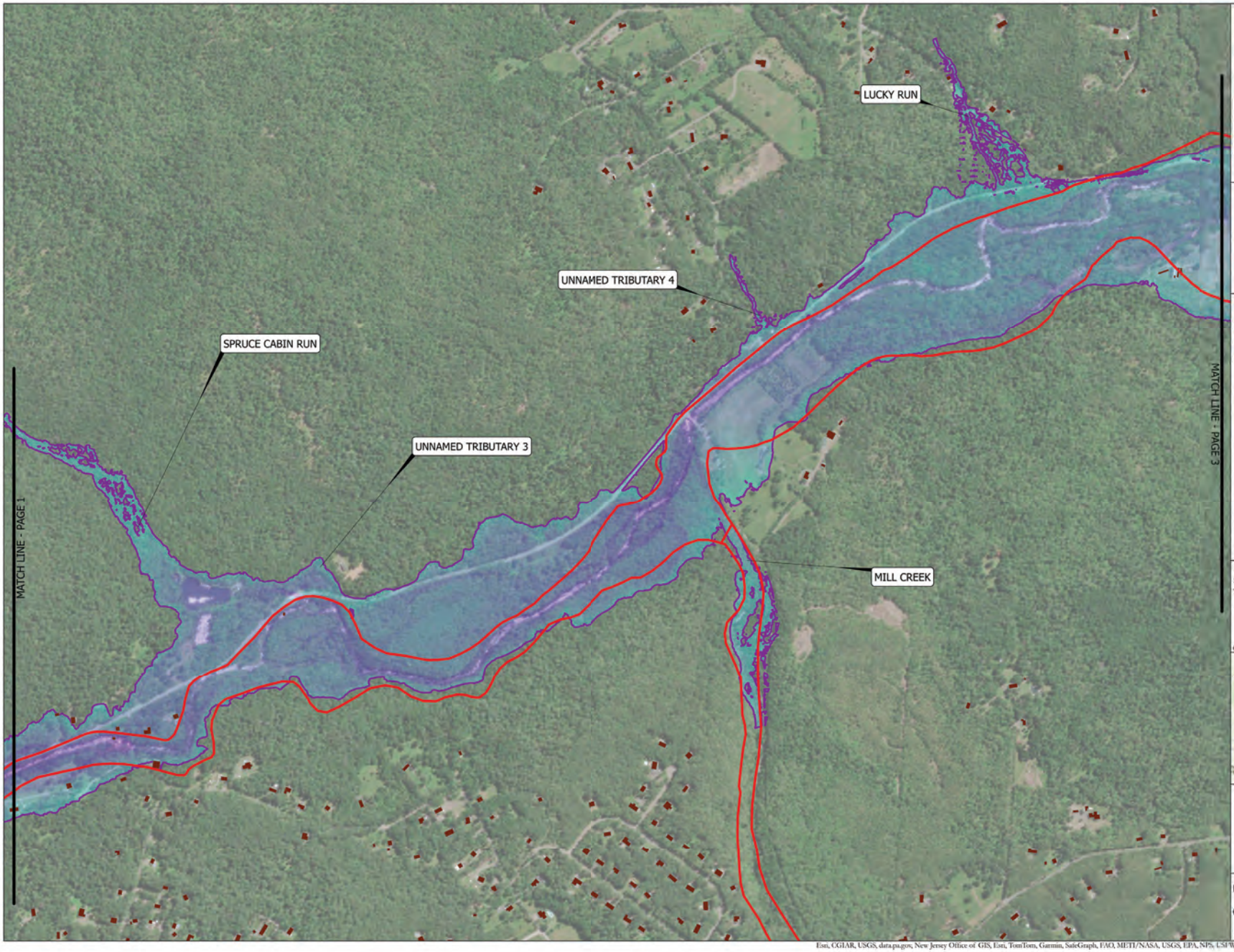
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BRODHEAD TRIBUTARIES
INUNDATION MAP
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA
SCENARIO 1 NO ACTION ALTERNATIVE
INUNDATION MAP
PAGE 1 OF 4
N
400 200 0 400
US Feet
LEGEND
FEMA 100-YEAR FLOOD BOUNDARY
BUILDING FOOTPRINT
INUNDATION BOUNDARY SCENARIO 1
SCENARIO 1 INUNDATION BOUNDARY
VALUE
40 FT
35 FT
30 FT
25 FT
20 FT
15 FT
10 FT
5 FT
0.001 FT
NOTES
1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS
Coordinate System: NAD83 / Pennsylvania North
DDK Engineering-JV
USDA United States Department of Agriculture
Natural Resources Conservation Service
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GOOSE POND
LEAVITT BRANCH
UNNAMED TRIBUTARY 1
UNNAMED TRIBUTARY 2
BRODHEAD CREEK
BUCK HILL CREEK
MATCH LINE - PAGE 2
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

SCENARIO 1 NO ACTION ALTERNATIVE INUNDATION MAP
PAGE 2 OF 4

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY SCENARIO 1

SCENARIO 1 INUNDATION BOUNDARY
VALUE
- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



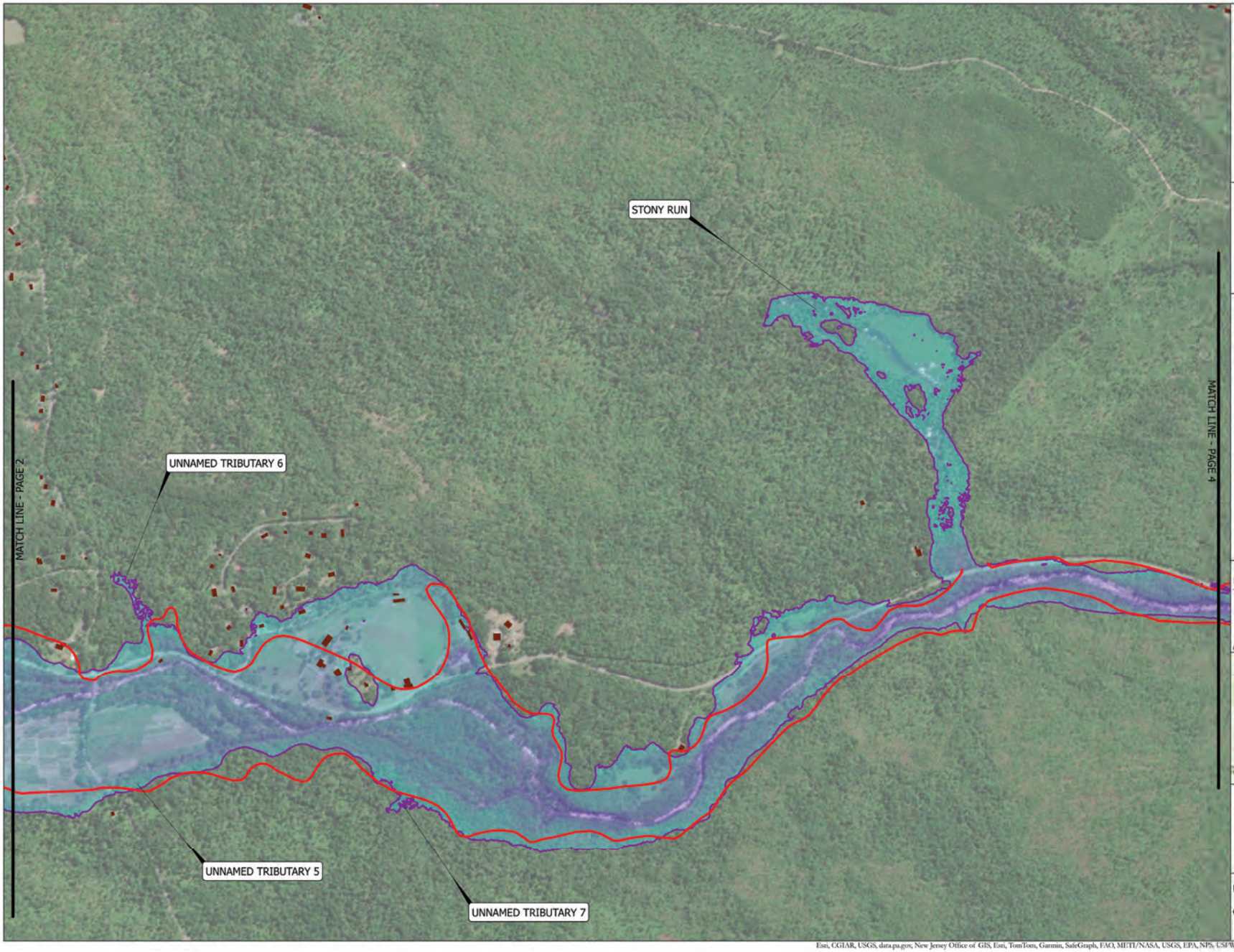
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

SCENARIO 1 NO ACTION ALTERNATIVE INUNDATION MAP

PAGE 3 OF 4

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY SCENARIO 1

SCENARIO 1 INUNDATION BOUNDARY

VALUE

- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.00 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



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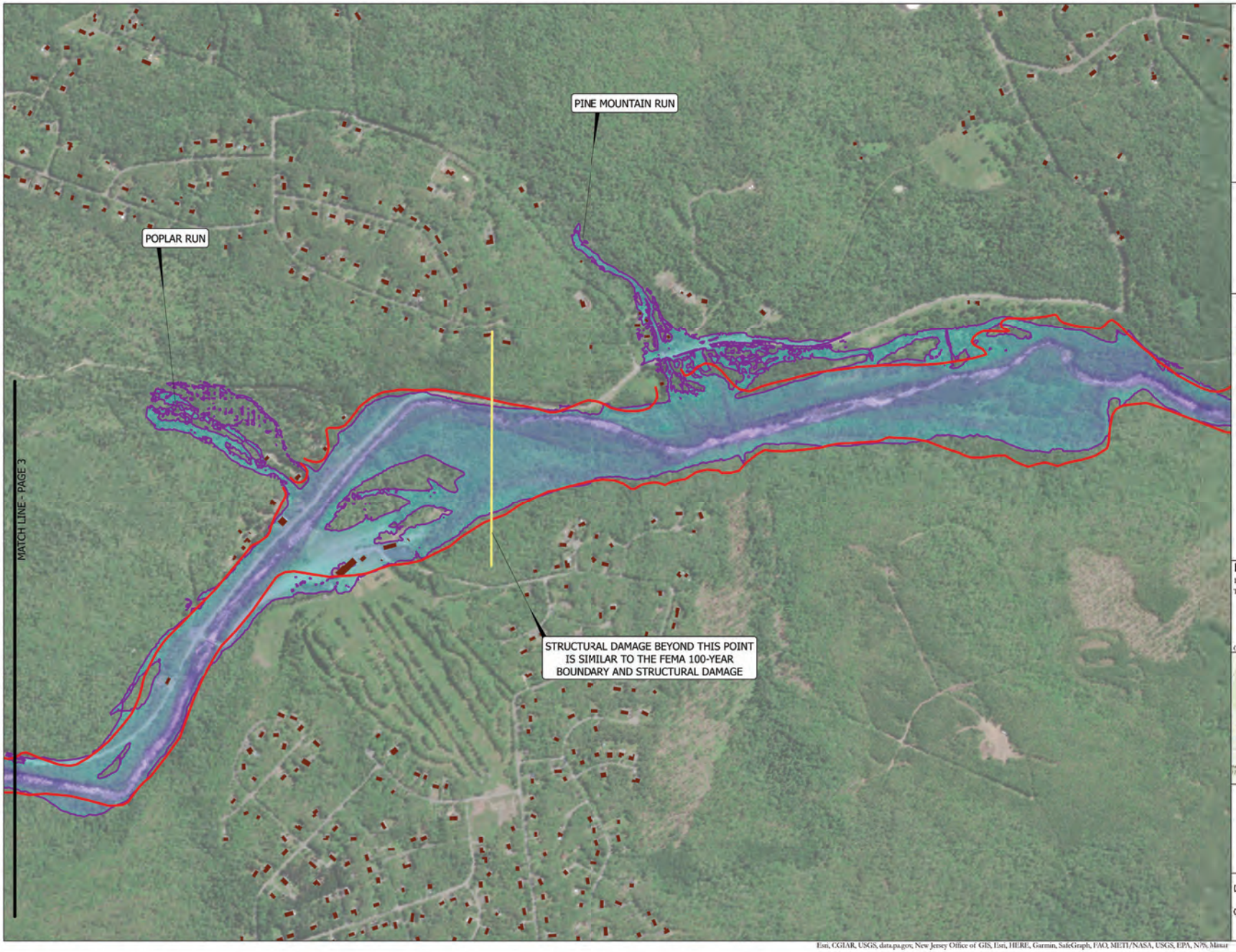
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

SCENARIO 1 NO ACTION ALTERNATIVE INUNDATION MAP
PAGE 4 OF 4

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY SCENARIO 1

SCENARIO 1 INUNDATION BOUNDARY
VALUE
- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



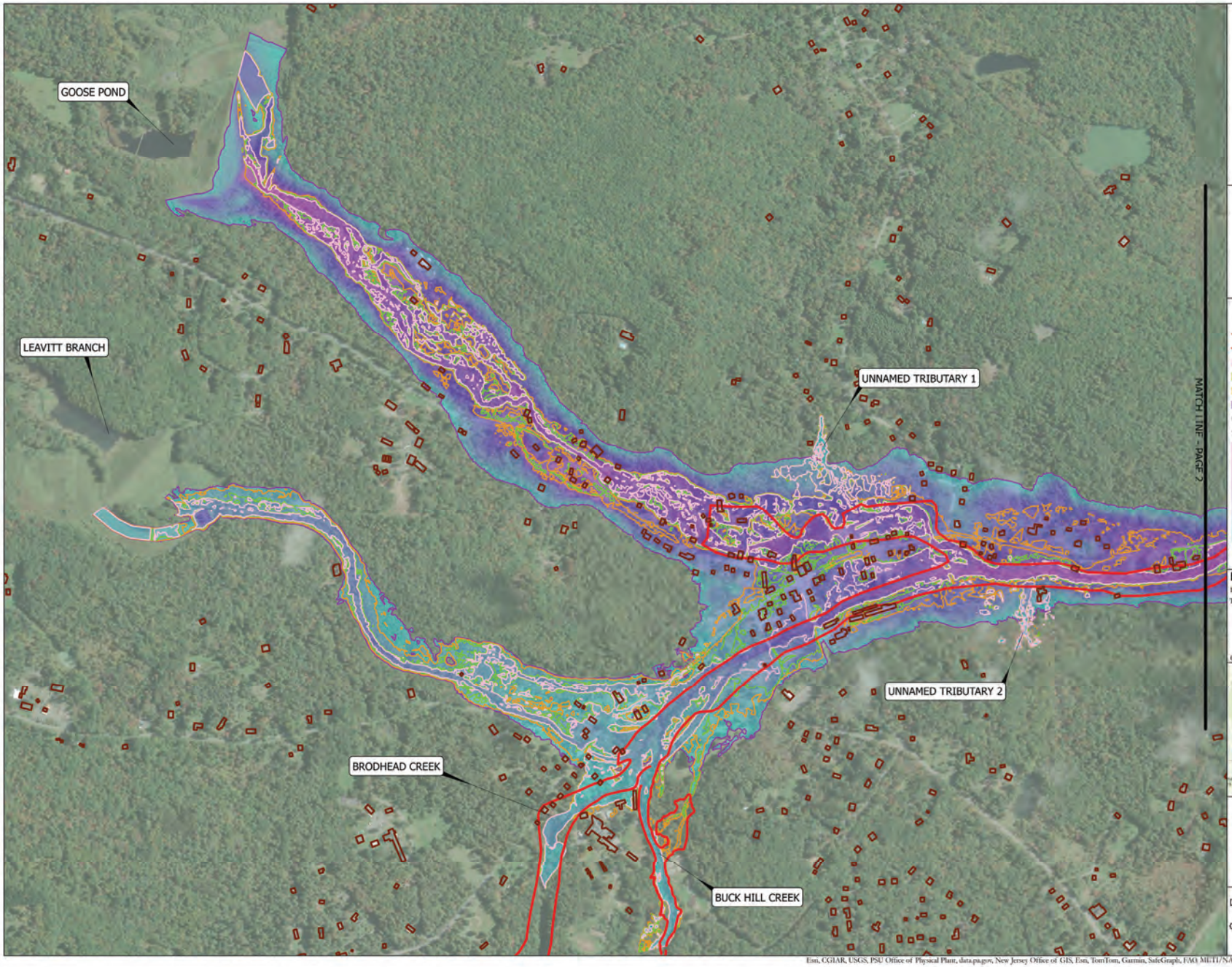
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

LEAVITT PREFERRED DESIGN OPTION INUNDATION MAP

N

400 200 0 400
US Feet

LEGEND

- BUILDING
- FEMA 100-YEAR FLOOD BOUNDARY
- 100 YEAR INUNDATION BOUNDARY
- 200 YEAR INUNDATION BOUNDARY
- 500 YEAR INUNDATION BOUNDARY
- FBH INUNDATION BOUNDARY

FBH INUNDATION DEPTH
VALUE

- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.01 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



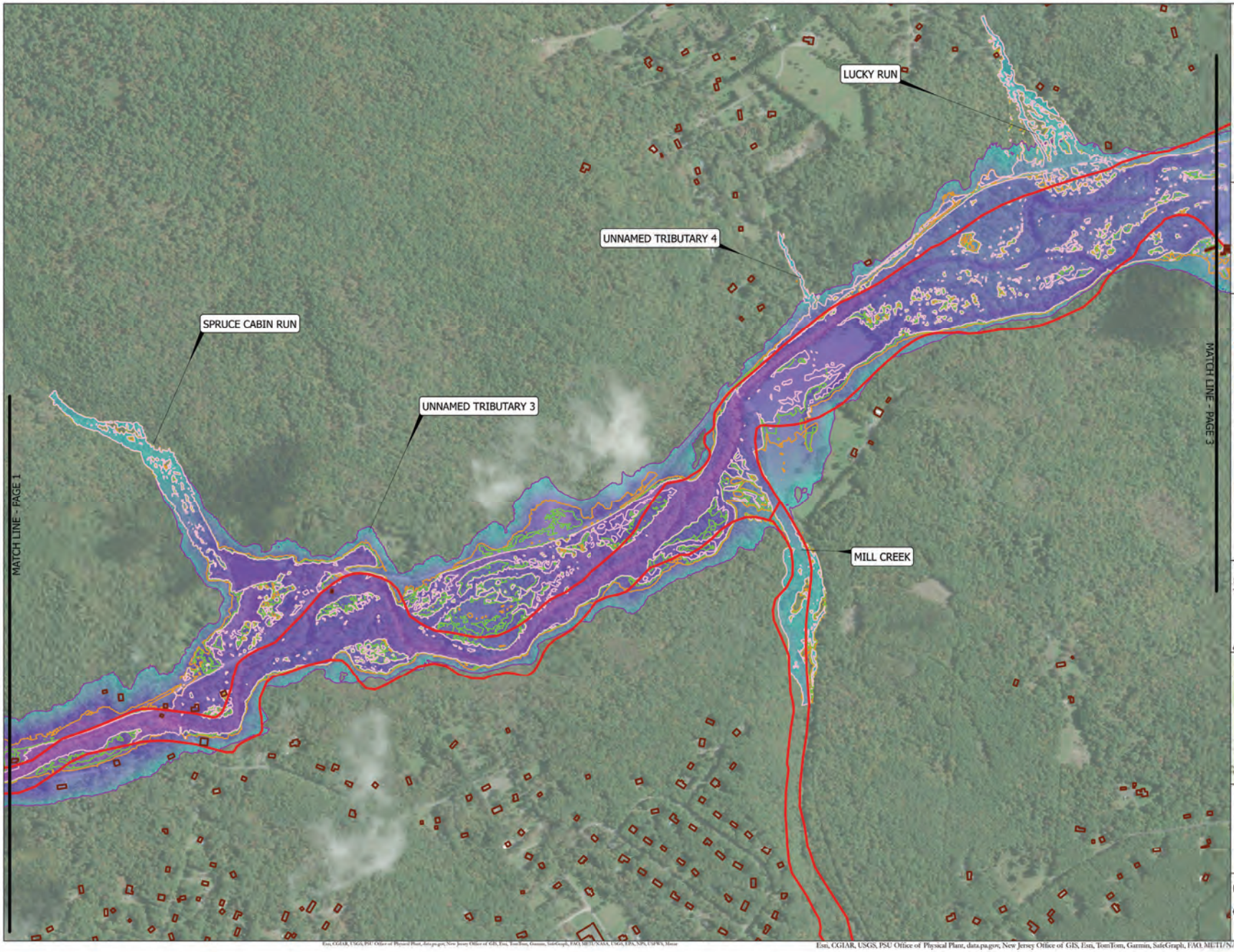
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

LEAVITT PREFERRED DESIGN OPTION INUNDATION MAP
PAGE 2 OF 5

N

400 200 0 400
US Feet

LEGEND

- BUILDING
- FEMA 100-YEAR FLOOD BOUNDARY
- 100 YEAR INUNDATION BOUNDARY
- 200 YEAR INUNDATION BOUNDARY
- 500 YEAR INUNDATION BOUNDARY
- FBH INUNDATION BOUNDARY

FBH INUNDATION DEPTH
VALUE
- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.01 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



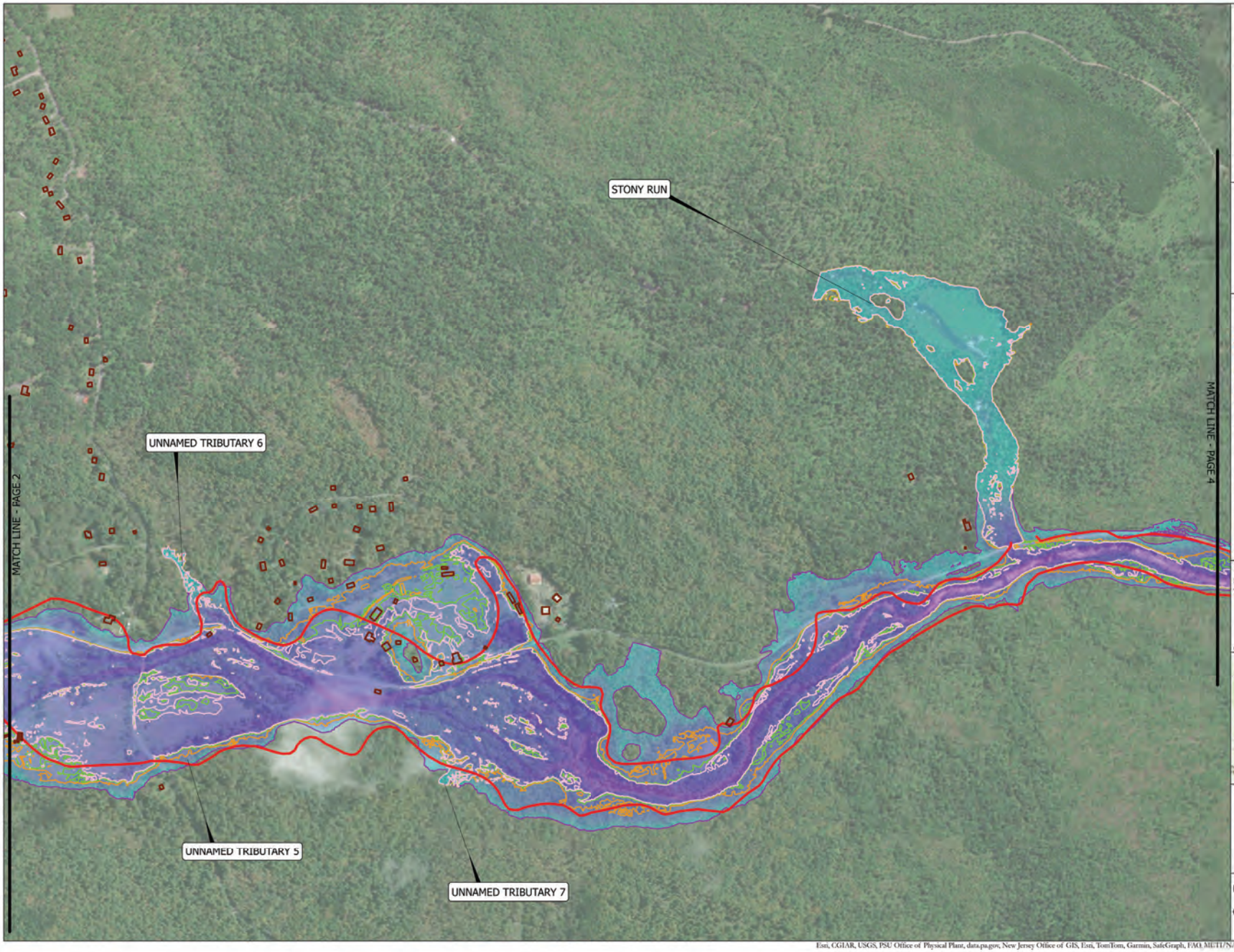
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

LEAVITT PREFERRED DESIGN OPTION INUNDATION MAP

PAGE 3 OF 5

N

400 200 0 400
US Feet

LEGEND

- BUILDING
- FEMA 100-YEAR FLOOD BOUNDARY
- 100 YEAR INUNDATION BOUNDARY
- 200 YEAR INUNDATION BOUNDARY
- 500 YEAR INUNDATION BOUNDARY
- FBH INUNDATION BOUNDARY

FBH INUNDATION DEPTH

VALUE

- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.01 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



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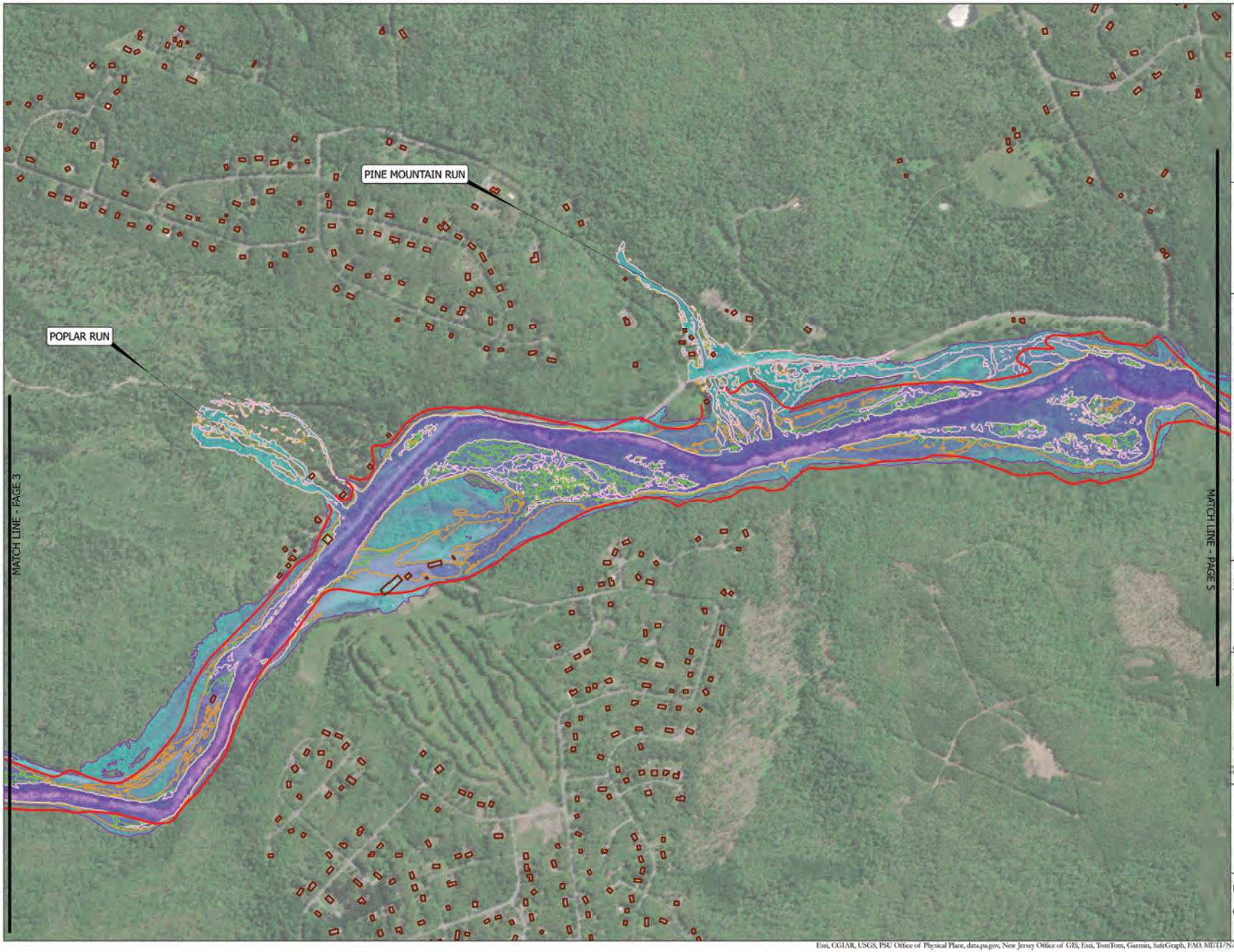
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

LEAVITT PREFERRED DESIGN OPTION INUNDATION MAP

PAGE 4 OF 5

N

400 200 0 400
US Feet

LEGEND

- BUILDING
- FEMA 100-YEAR FLOOD BOUNDARY
- 100 YEAR INUNDATION BOUNDARY
- 200 YEAR INUNDATION BOUNDARY
- 500 YEAR INUNDATION BOUNDARY
- FBH INUNDATION BOUNDARY

FBH INUNDATION DEPTH

VALUE

- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.01 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



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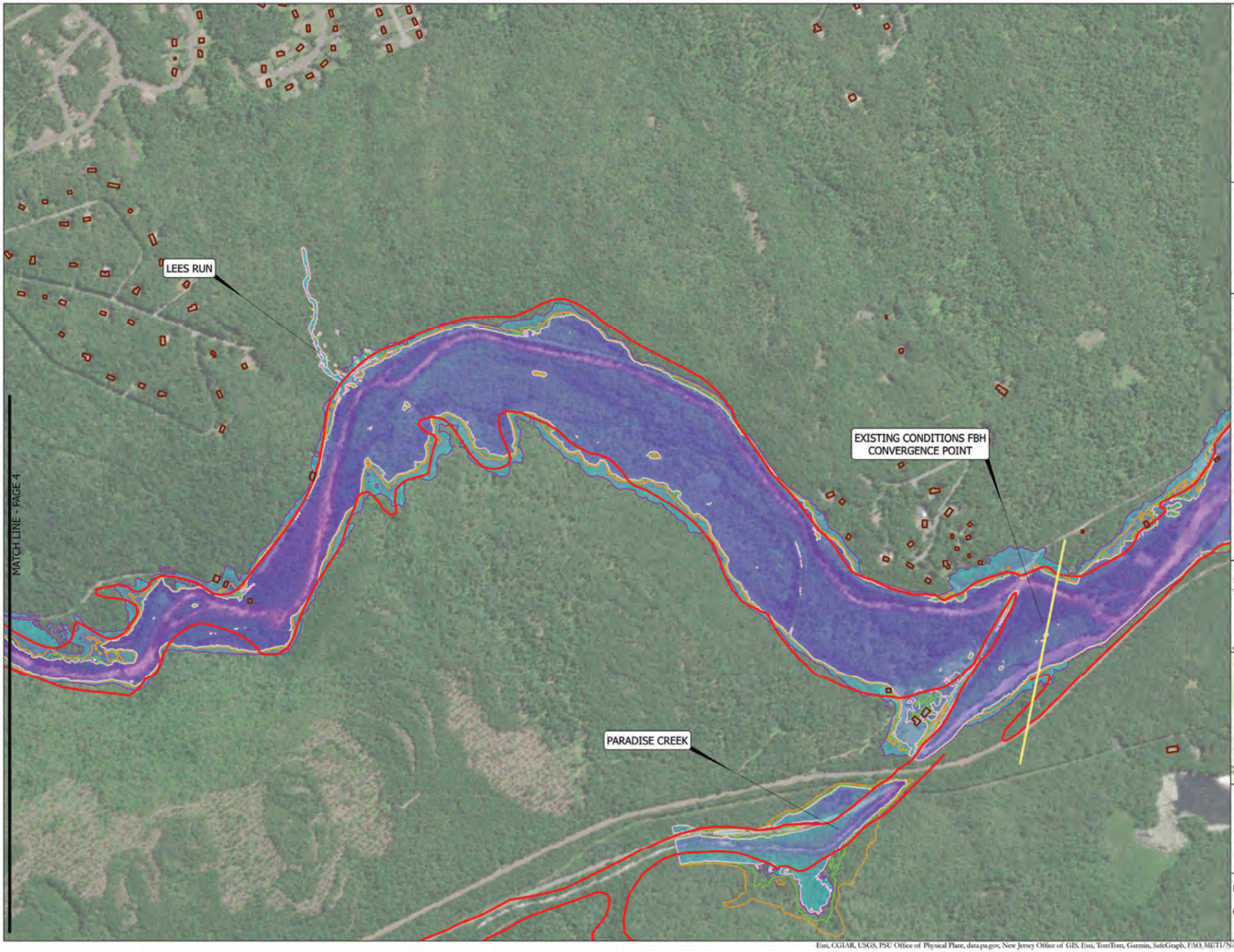
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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

LEAVITT PREFERRED DESIGN OPTION INUNDATION MAP
PAGE 5 OF 5

N

400 200 0 400
US Feet

LEGEND

- BUILDING
- FEMA 100-YEAR FLOOD BOUNDARY
- 100 YEAR INUNDATION BOUNDARY
- 200 YEAR INUNDATION BOUNDARY
- 500 YEAR INUNDATION BOUNDARY
- FBH INUNDATION BOUNDARY

FBH INUNDATION DEPTH
VALUE
- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.01 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



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Sheet 1 of 3

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Project No. 172719-33

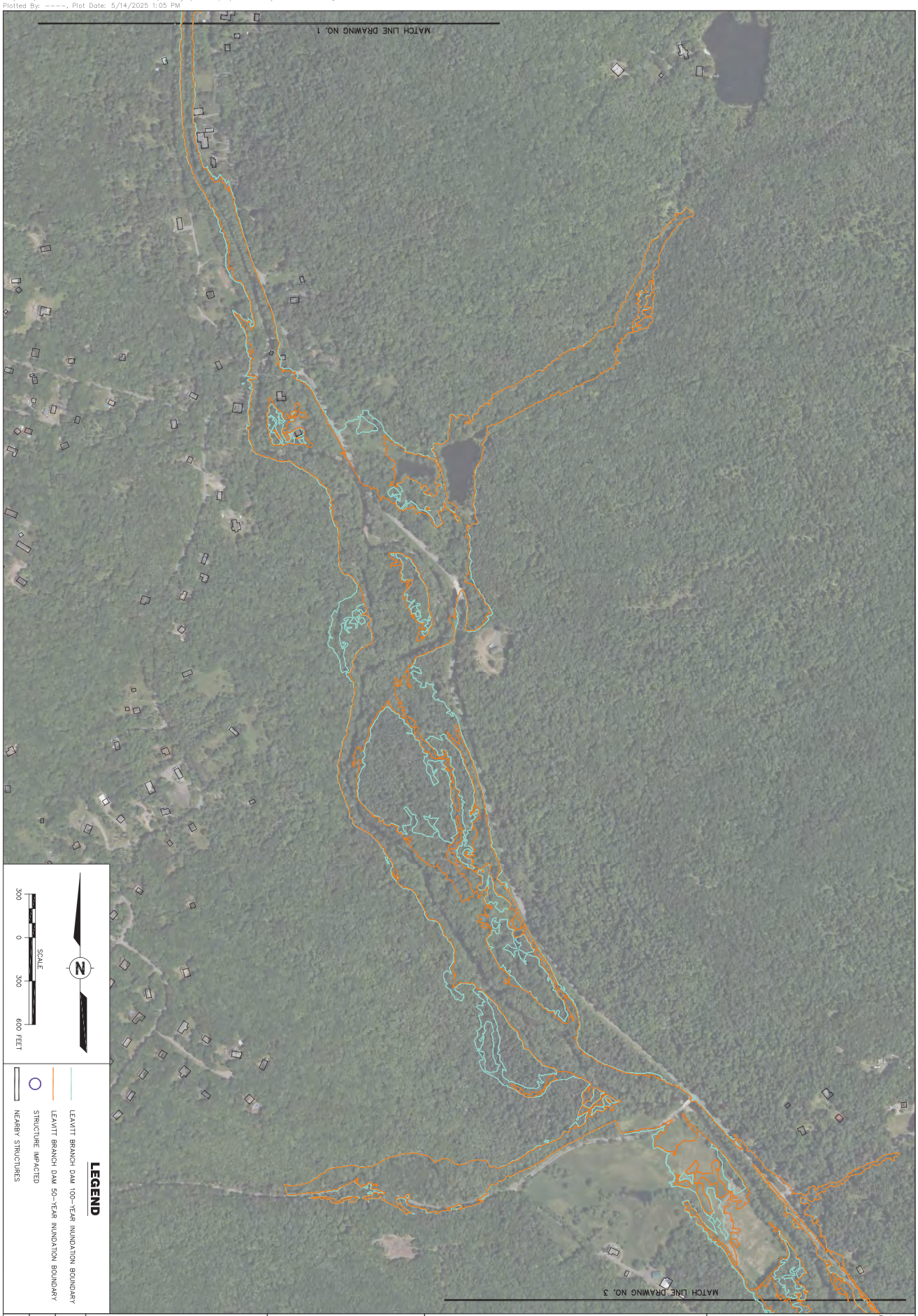
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BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA
LEAVITT BRANCH DAM PROPOSED CONDITIONS
INUNDATION BOUNDARY (SHEET 1)

		Date
Designed	MMS	5/14/2025
Drawn	----	----
Checked	----	----
Approved	----	----

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Sheet 2 of 3

Drawing No. 2

Project No. 172719-33

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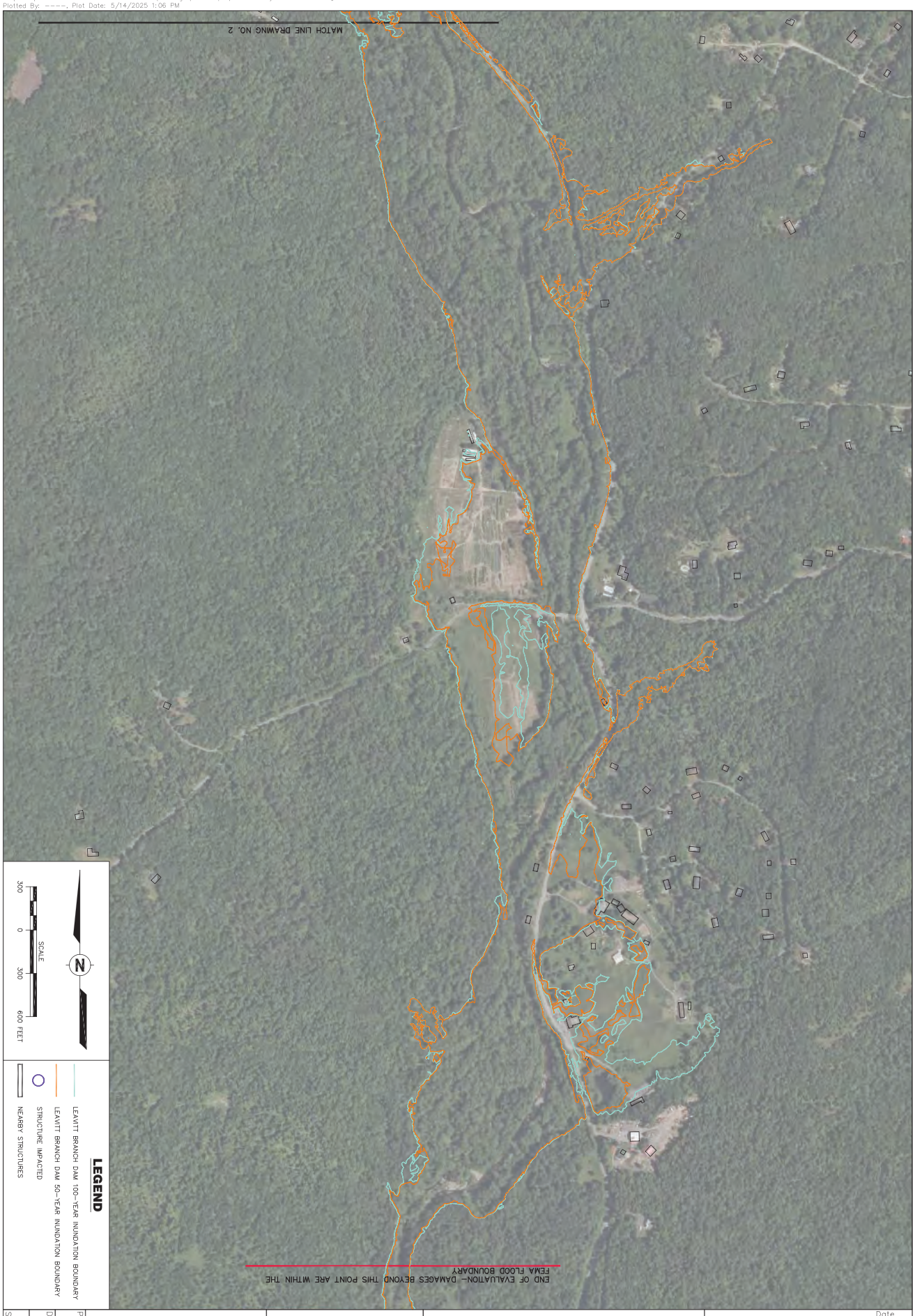
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BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

LEAVITT BRANCH DAM PROPOSED CONDITIONS
INUNDATION BOUNDARY (SHEET 2)

		Date
Designed	MMS	5/14/2025
Drawn	----	----
Checked	----	----
Approved	----	----

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Sheet 3 of 3

Drawing No. 3

Project No. 172719-33

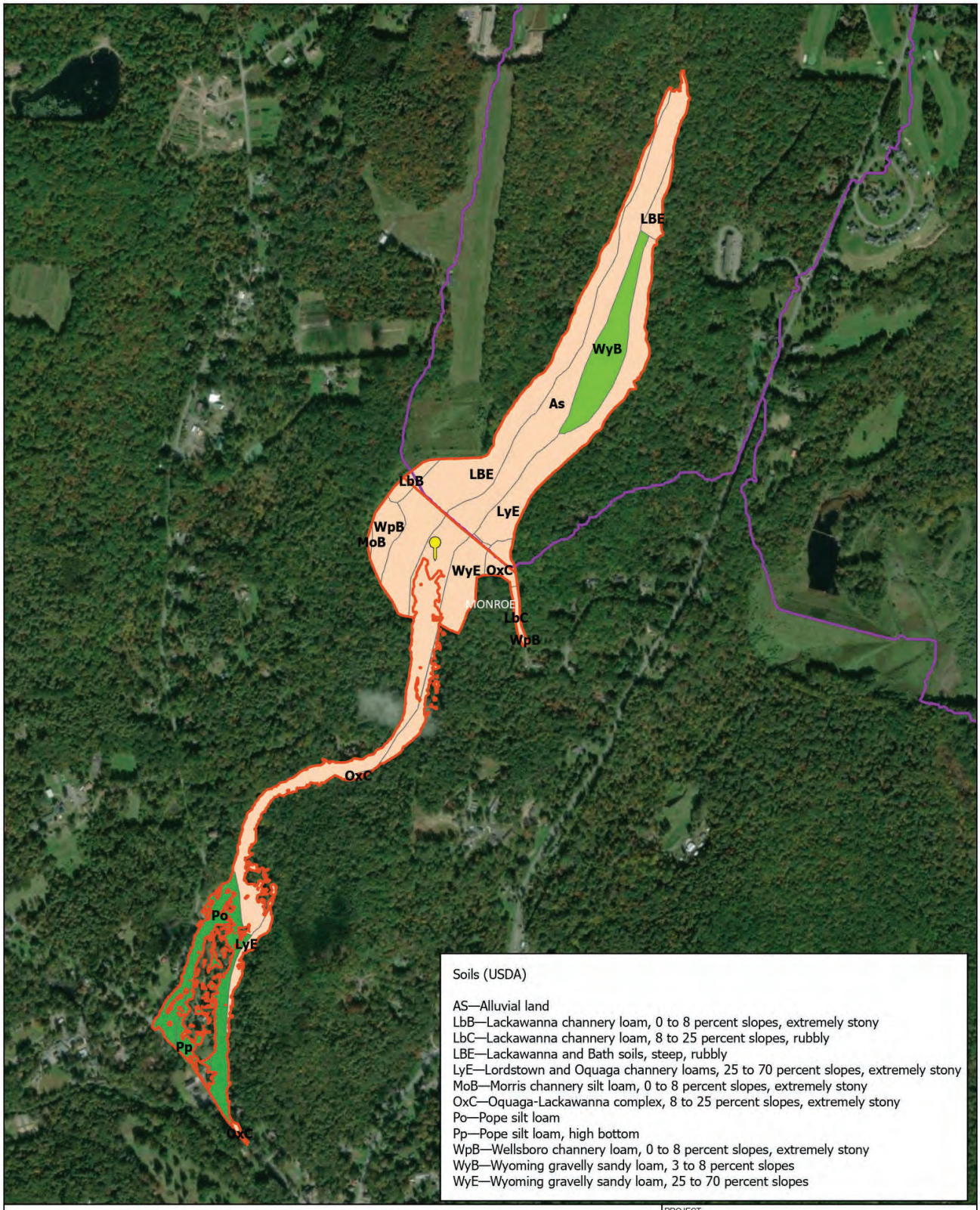
USDA United States Department of Agriculture
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BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

LEAVITT BRANCH DAM PROPOSED CONDITIONS
INUNDATION BOUNDARY (SHEET 3)

		Date
Designed	MMS	5/14/2025
Drawn	----	----
Checked	----	----
Approved	----	----



Soils (USDA)

AS—Alluvial land
LbB—Lackawanna channery loam, 0 to 8 percent slopes, extremely stony
LbC—Lackawanna channery loam, 8 to 25 percent slopes, rubbly
LBE—Lackawanna and Bath soils, steep, rubbly
LyE—Lordstown and Oquaga channery loams, 25 to 70 percent slopes, extremely stony
MoB—Morris channery silt loam, 0 to 8 percent slopes, extremely stony
OxC—Oquaga-Lackawanna complex, 8 to 25 percent slopes, extremely stony
Po—Pope silt loam
Pp—Pope silt loam, high bottom
WpB—Wellsboro channery loam, 0 to 8 percent slopes, extremely stony
WyB—Wyoming gravelly sandy loam, 3 to 8 percent slopes
WyE—Wyoming gravelly sandy loam, 25 to 70 percent slopes

Soils

- Dam
- Study Area: PA-463
- Project Watershed
- Town Boundary

Farmland Soils

- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland

0 380 760 1,140 Feet

Data Sources: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS (Basemap); USGS National Hydrography Dataset, accessed 12/06/2022; PA DOT (Town Boundaries, 2020, accessed 11/20/2020); NRCS Web Soil Survey (Soil Properties, 2024, accessed 07/31/2024).

PROJECT

Brodhead Tributaries Watershed Plan Environmental Assessment

PROJECT LOCATION

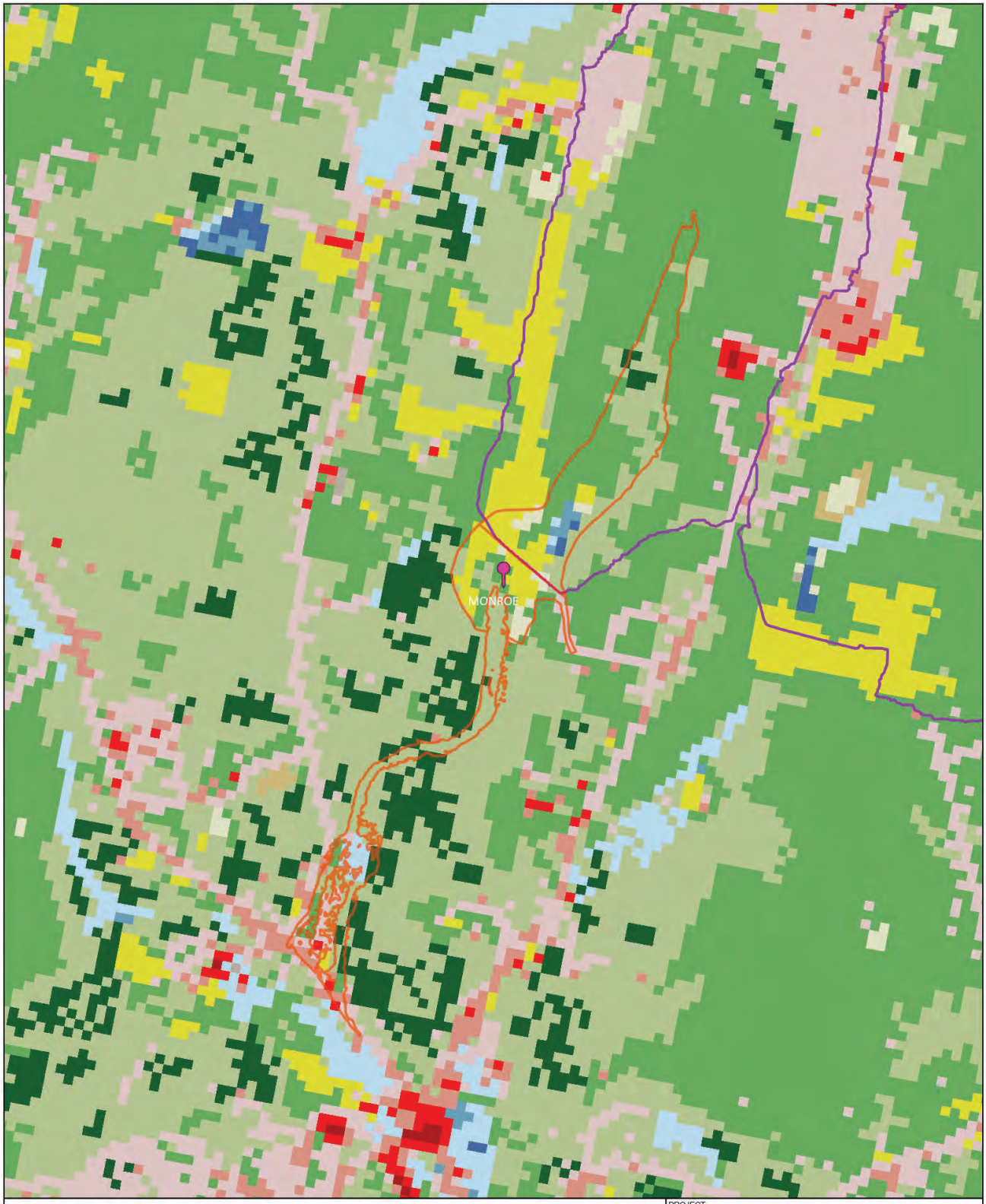
Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

NRCS Natural Resources Conservation Service

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Landcover

- Dam
- Project Watershed
- Town Boundary

NLCD Land Cover

- Open Water
- Perennial Snow/Ice
- Developed, Open Space
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Herbaceous
- Hay/Pasture
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

0 500 1,000 1,500 Feet

Data Sources: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS (Basemap); USGS National Hydrography Dataset, accessed 12/06/2022; PA DOT (Town Boundaries, 2020, accessed 11/20/2020); MRLC (NLCD 2011, Landcover 2019, accessed 12/01/2022).

PROJECT

Brodhead Tributaries Watershed Plan Environmental Assessment

PROJECT LOCATION

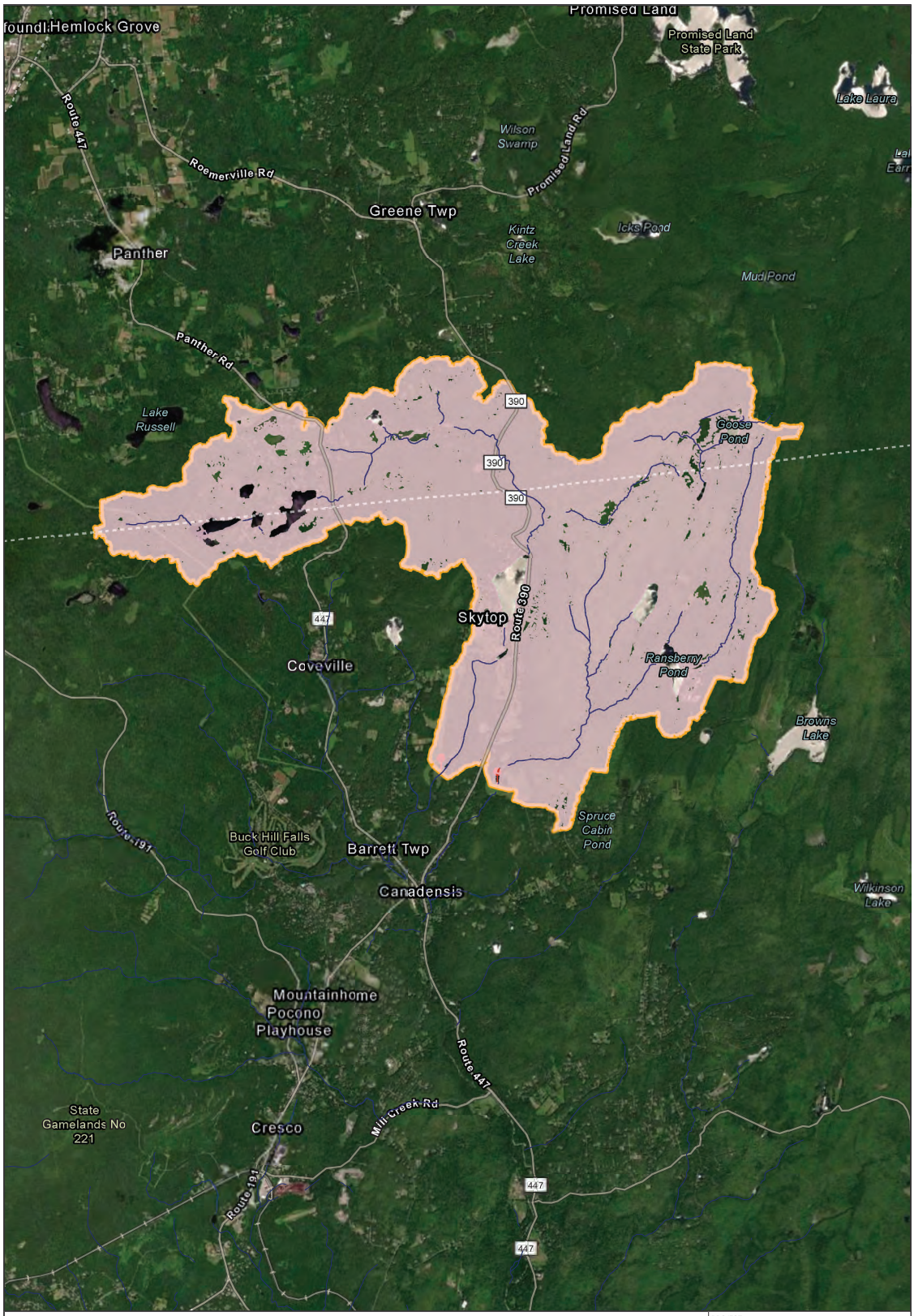
Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

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Water Resources

- Project Dams
- Brodhead Dam Watershed
- Contours
- Streams

0 4,000 8,000 Feet

1 inch equals 12,000 feet

Data Sources: New York State, Earthstar Geographics, data.pa.gov, New Jersey Office of GIS, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA (Basemap); USGS National Elevation Dataset (ELEV_Newark_W_NJ_1X1_Shape, ELEV_Scranton_W_PA_1X1_Shape, accessed 12/06/2022.)

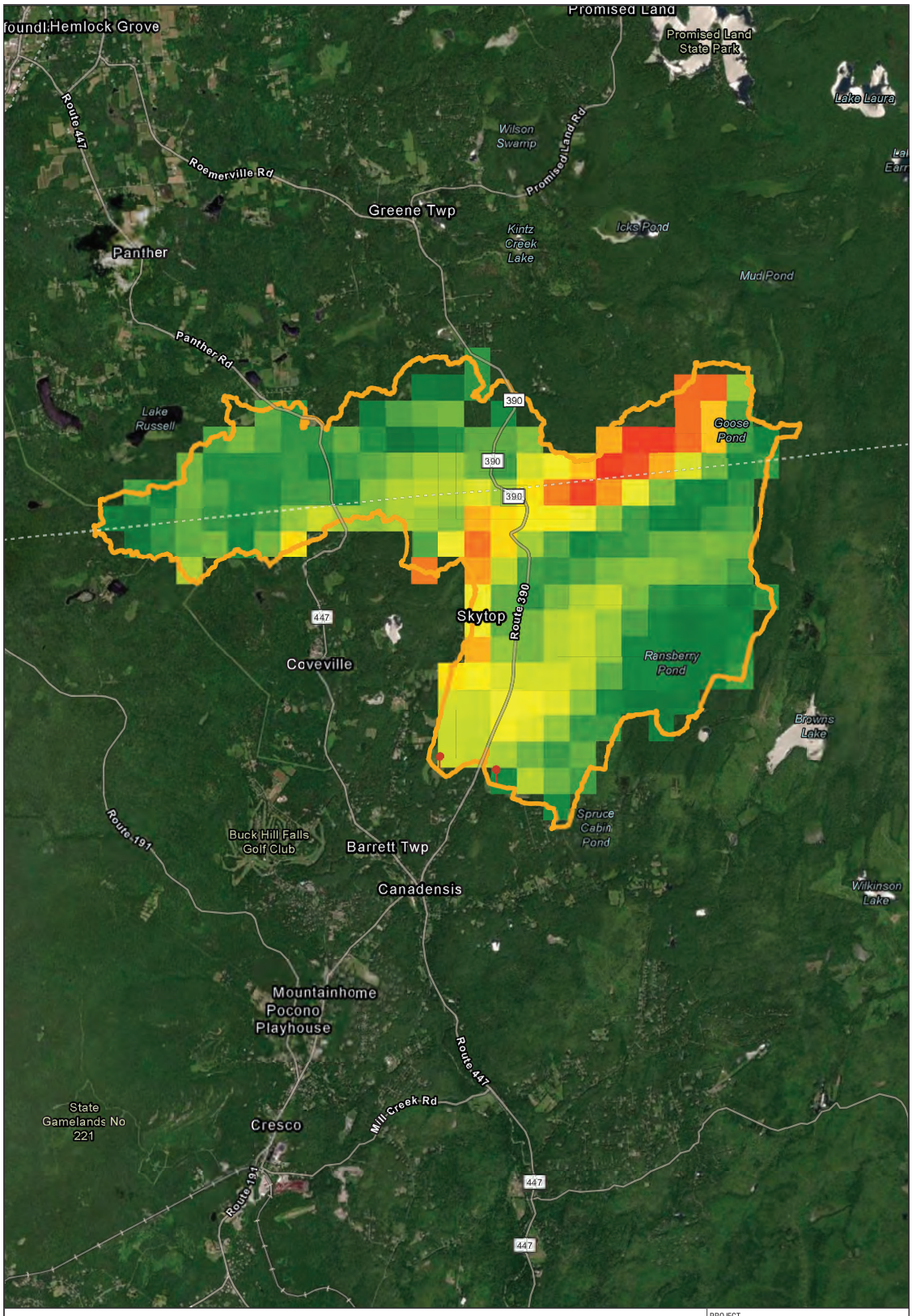
PROJECT
Brodhead Tributaries Watershed Plan

PROJECT LOCATION
Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

December 2022

NRCS Natural Resources Conservation Service

DDK Engineering-JV



Water Resources

- Project Dams
- Brodhead Dam Watershed

Percent Slope

32.4288

0.69338

0 4,000 8,000 Feet

1 inch equals 12,000 feet

Data Sources: New York State, Earthstar Geographics, data.pa.gov, New Jersey Office of GIS, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA (Basemap); USGS National Elevation Dataset (ELEV_Newark_W_NJ_1X1_Shape, ELEV_Scranton_W_PA_1X1_Shape, accessed 12/06/2022.)

PROJECT

Brodhead Tributaries Watershed Plan

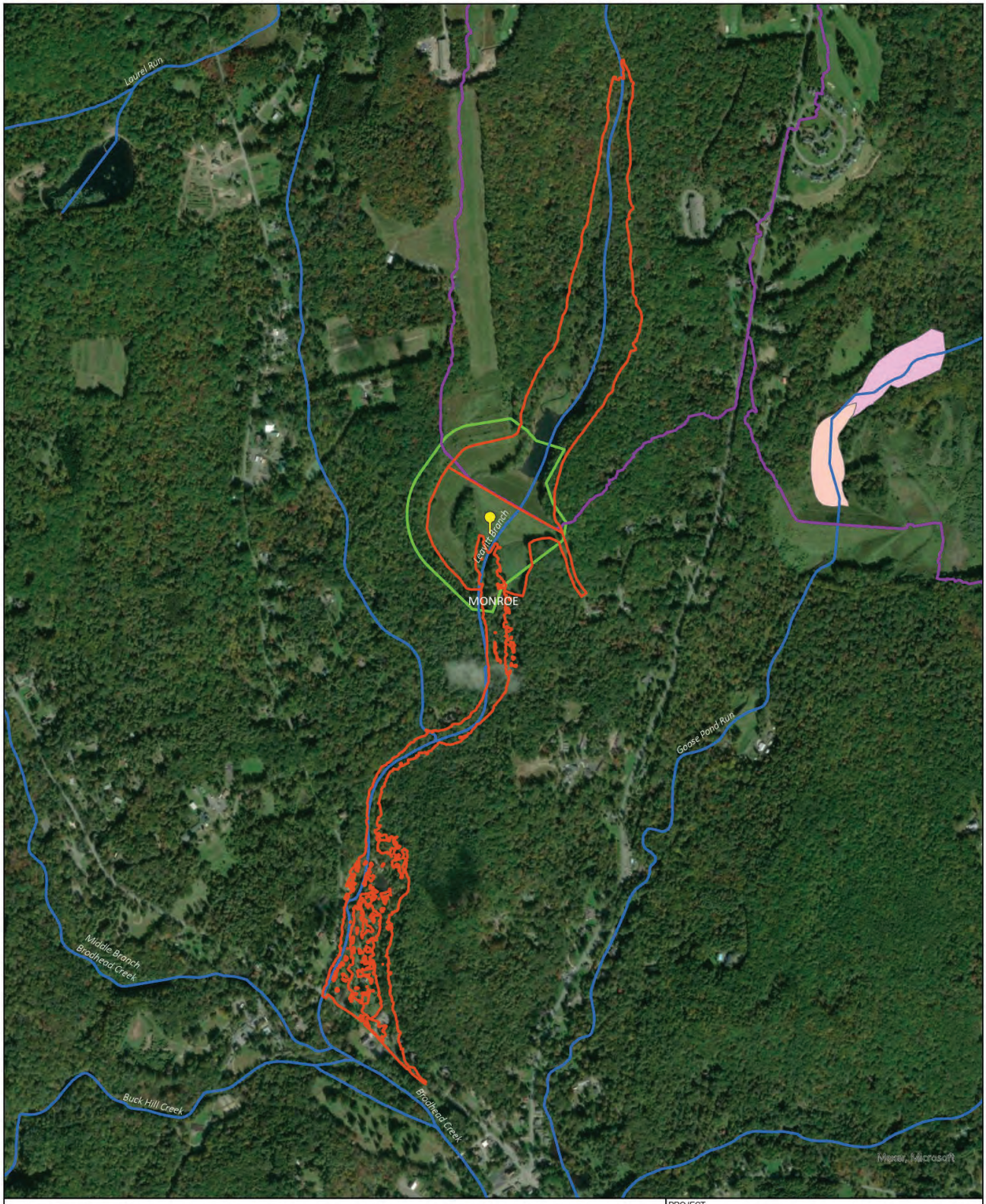
PROJECT LOCATION

Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

December 2022

NRCS Natural Resources Conservation Service

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Wetlands & Waterways

- Dam
- Study Area: PA-463
- Project Watershed
- Town Boundary
- Stream
- D&K Wetland Delineation Boundary

NWI Wetland Type

- Freshwater Forested/ Shrub Wetland
- Freshwater Pond

0 430 860 1,290 Feet

Data Sources: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS (Basemap); USGS National Hydrography Dataset, accessed 12/06/2022; PA DOT (Town Boundaries, 2020, accessed 11/20/2020); D&K GPS Delineation Data (06/09/2022).

PROJECT

Brodhead Tributaries Watershed Plan Environmental Assessment

PROJECT LOCATION

Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

NRCS Natural Resources Conservation Service

DDK Engineering-JV



Date
Designed MWS 3/2024
Drawn MWS 3/2024
Checked
Approved

BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

LEAVITT BRANCH DAM
EASEMENTS

DDK Engineering-JV

United States Department of Agriculture
Natural Resources Conservation Service

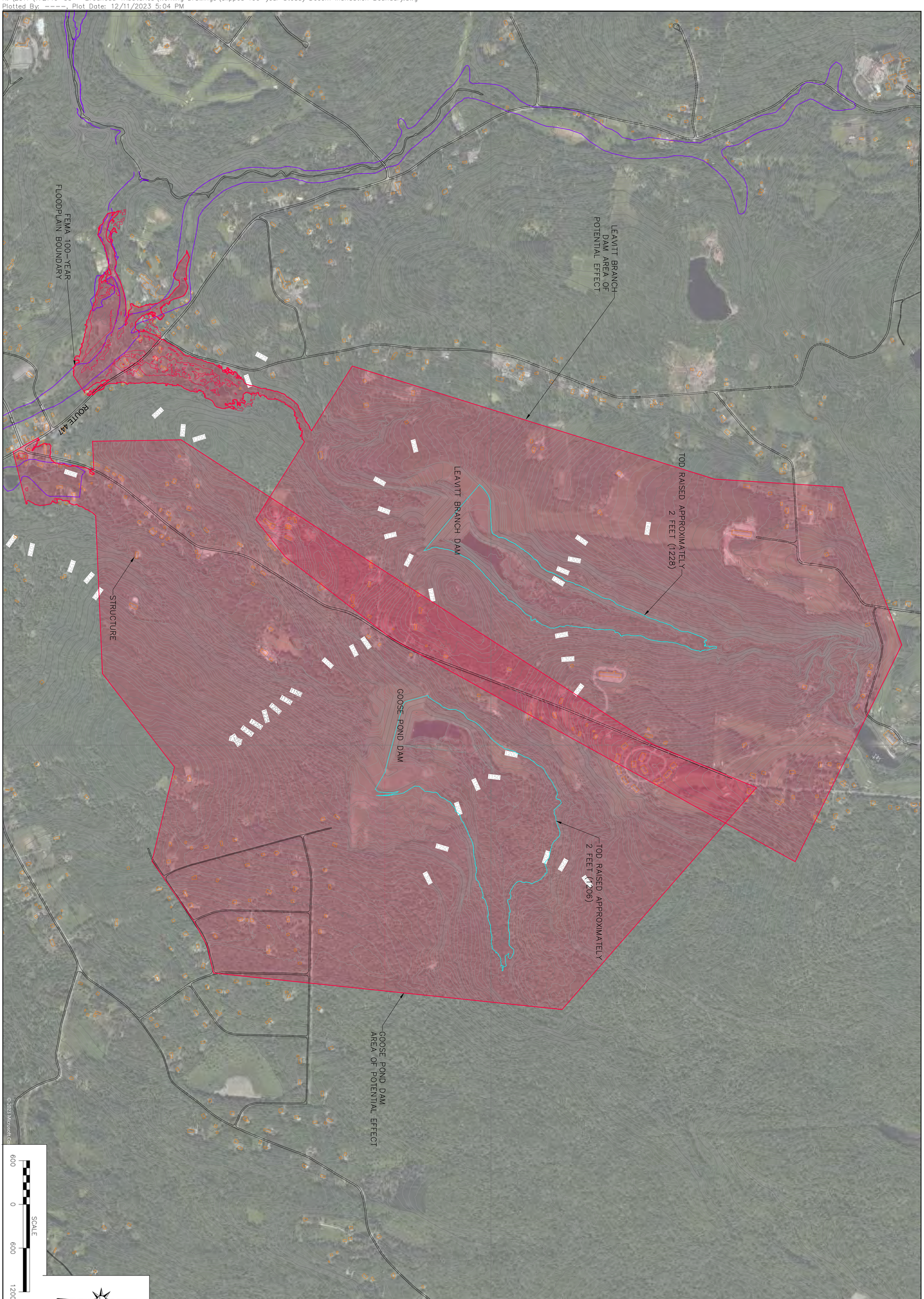
Project No.
172719-33

Drawing No.
1

Sheet 1 of 1

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Sheet 1 of 1	Drawing No. 1	Project No. 172719-33	USDA United States Department of Agriculture Natural Resources Conservation Service USDA is an equal opportunity provider, employer, and lender.	DDK Engineering-JV	**BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT** **LEAVITT BRANCH DAM & GOOSE POND DAM** **MONROE COUNTY, PENNSYLVANIA** AREA OF POTENTIAL EFFECT LOCATION MAP	Designed MMS 12/2023 Drawn MMS 12/2023 Checked Approved