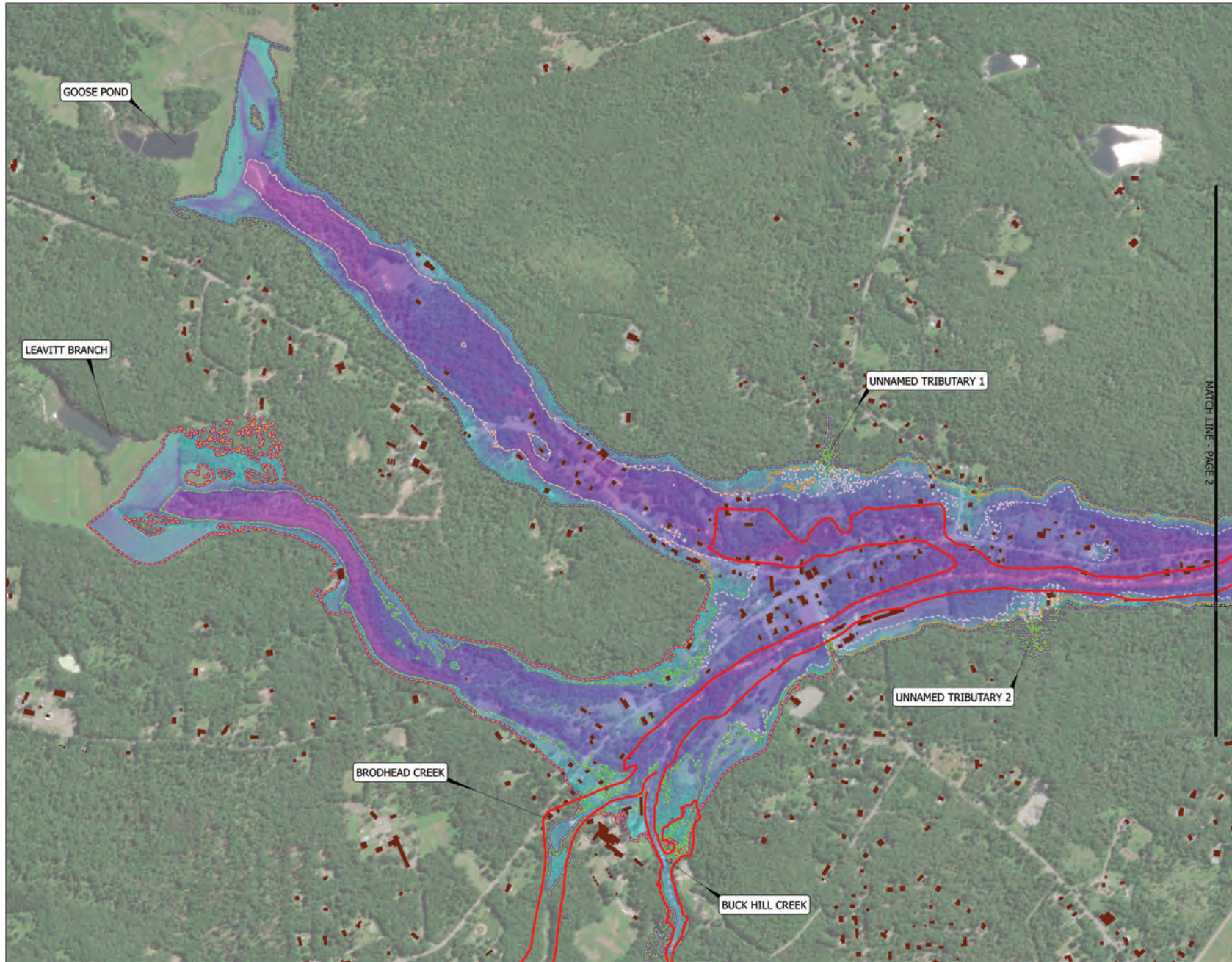
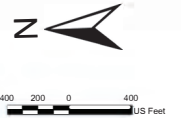




**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT
INUNDATION MAP
PAGE 1 OF 5



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

- FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

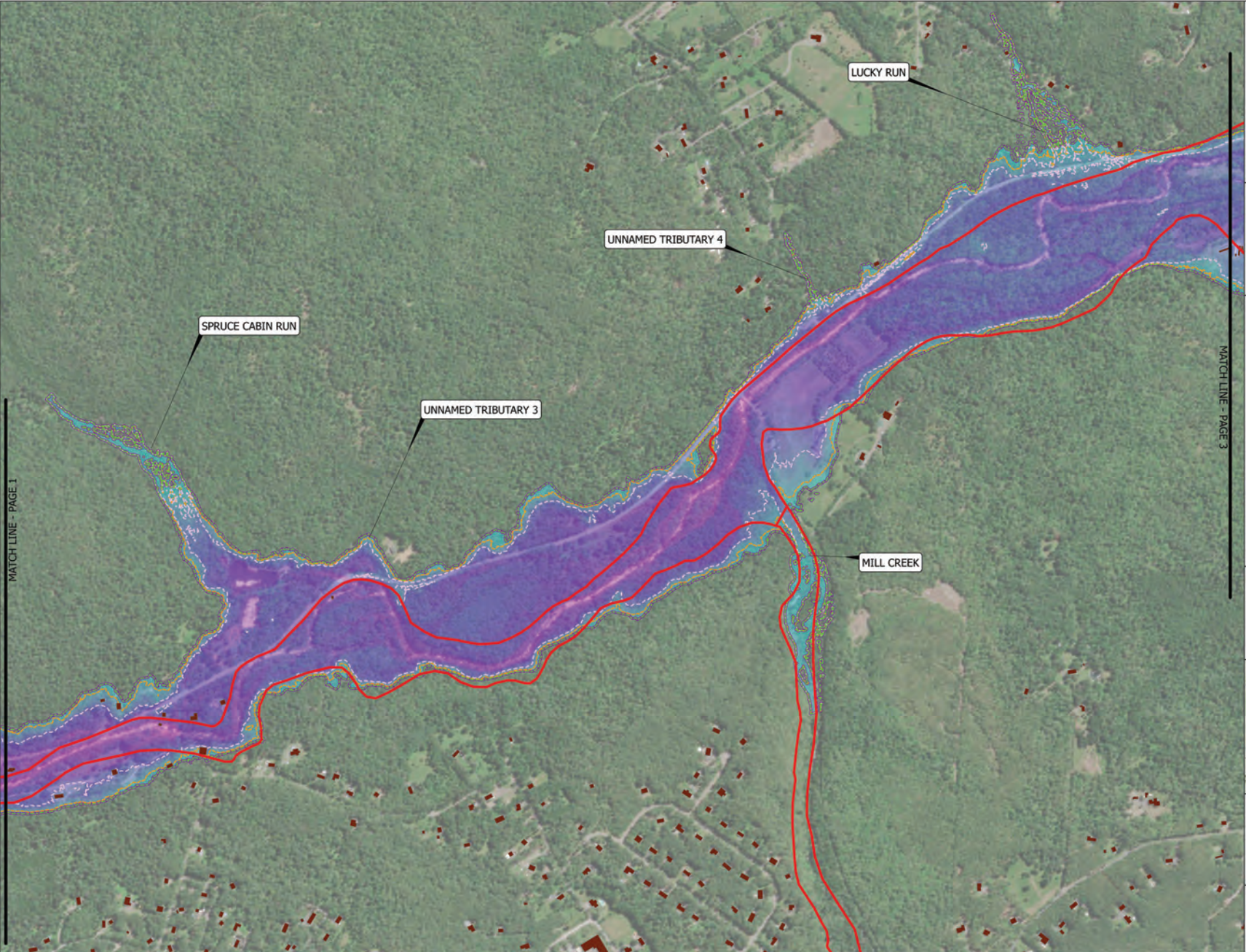
Coordinate System: NAD83 / Pennsylvania North



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CHECKED BY: MJG DATE: 11/8/23

DRAWING NO. 6



**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT
INUNDATION MAP
PAGE 2 OF 5



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

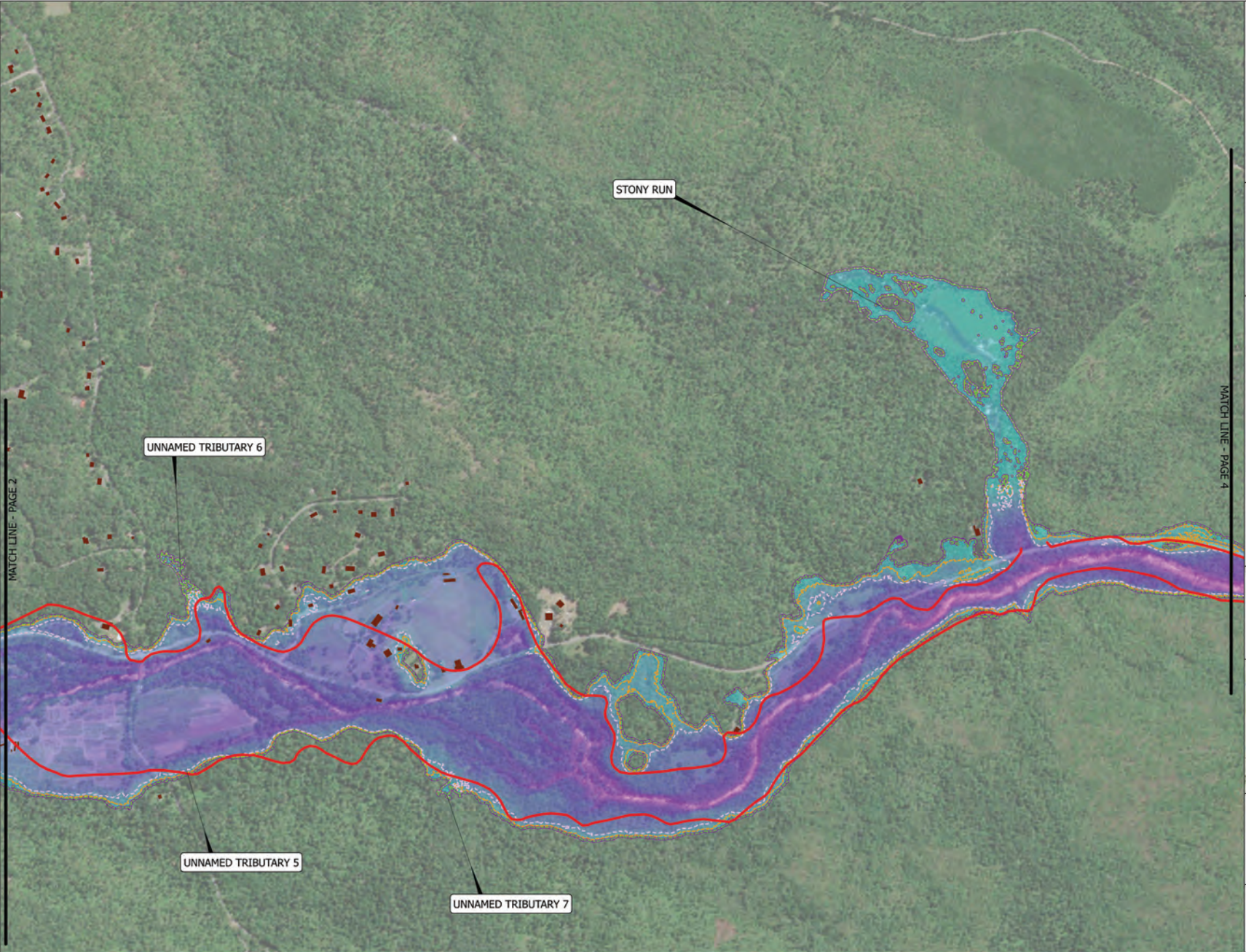
- FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



DRAWN BY: MMS DATE: 10/30/23
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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



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

- FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

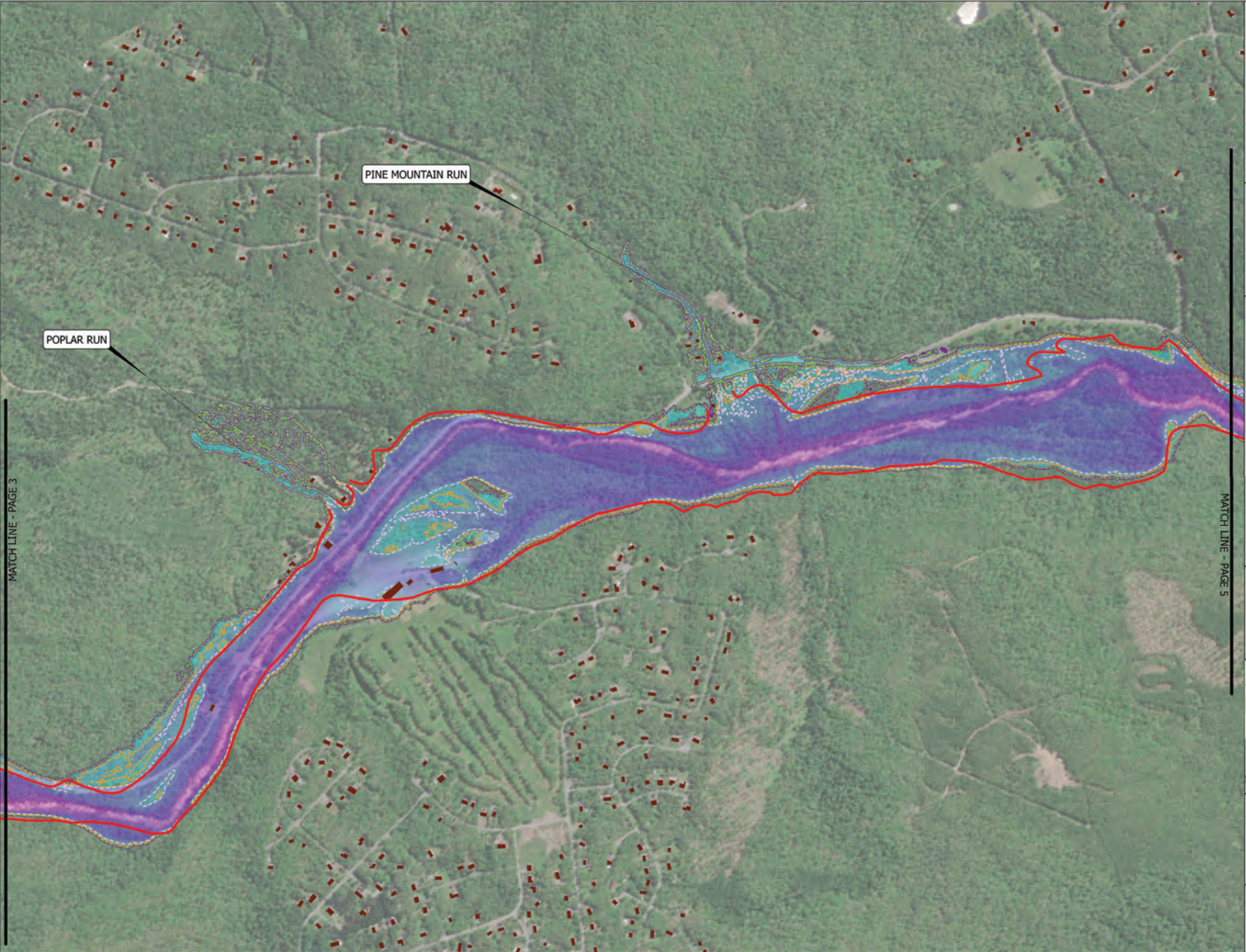
Coordinate System: NAD83 / Pennsylvania North



DRAWN BY: MMS DATE: 10/30/23

CHECKED BY: MJG DATE: 11/8/23

DRAWING NO. 8



**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT
INUNDATION MAP
PAGE 4 OF 5



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

- FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

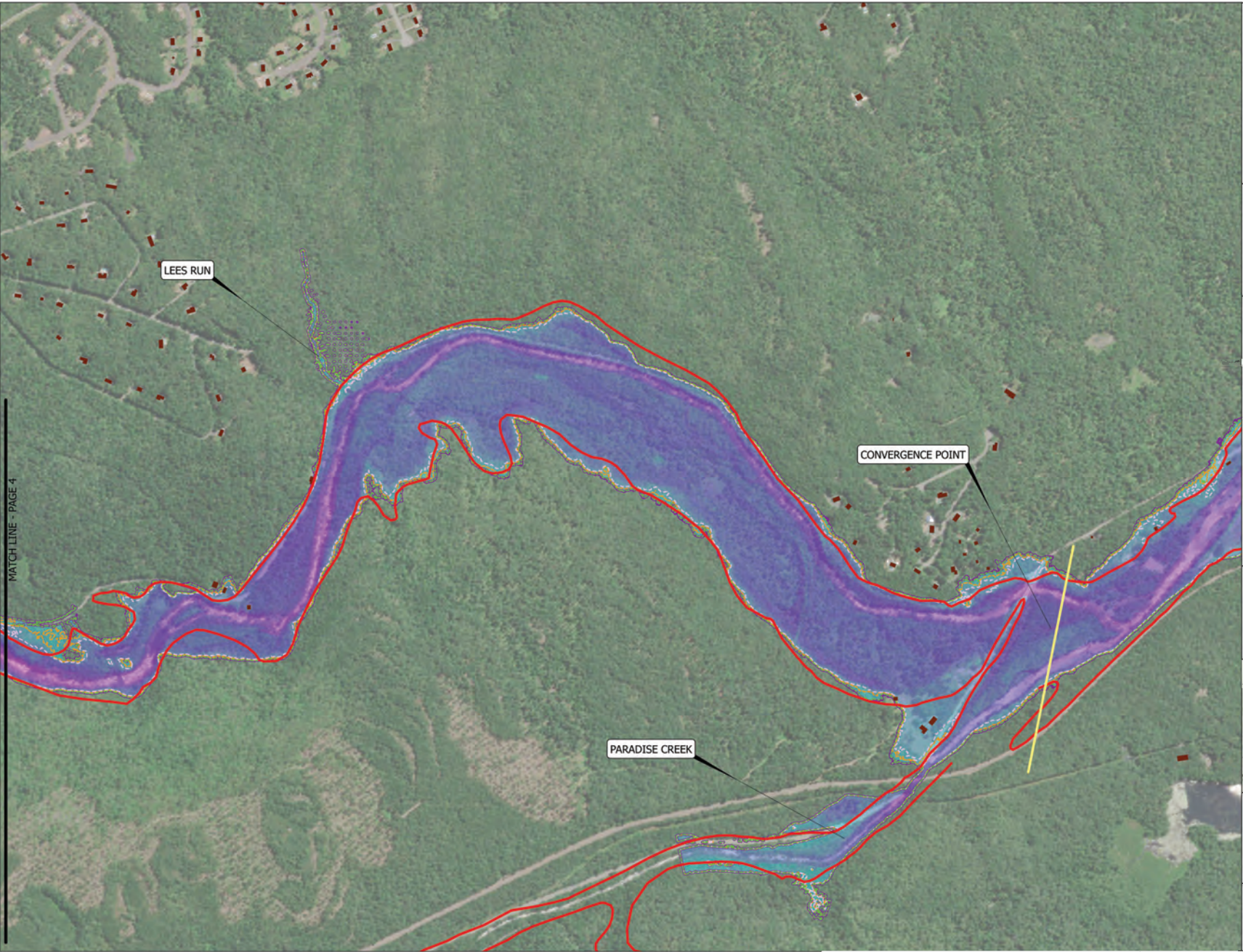
Coordinate System: NAD83 / Pennsylvania North



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DRAWING NO. 9



**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

EXISTING - FBH HYDROLOGIC EVENT
INUNDATION MAP
PAGE 5 OF 5



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

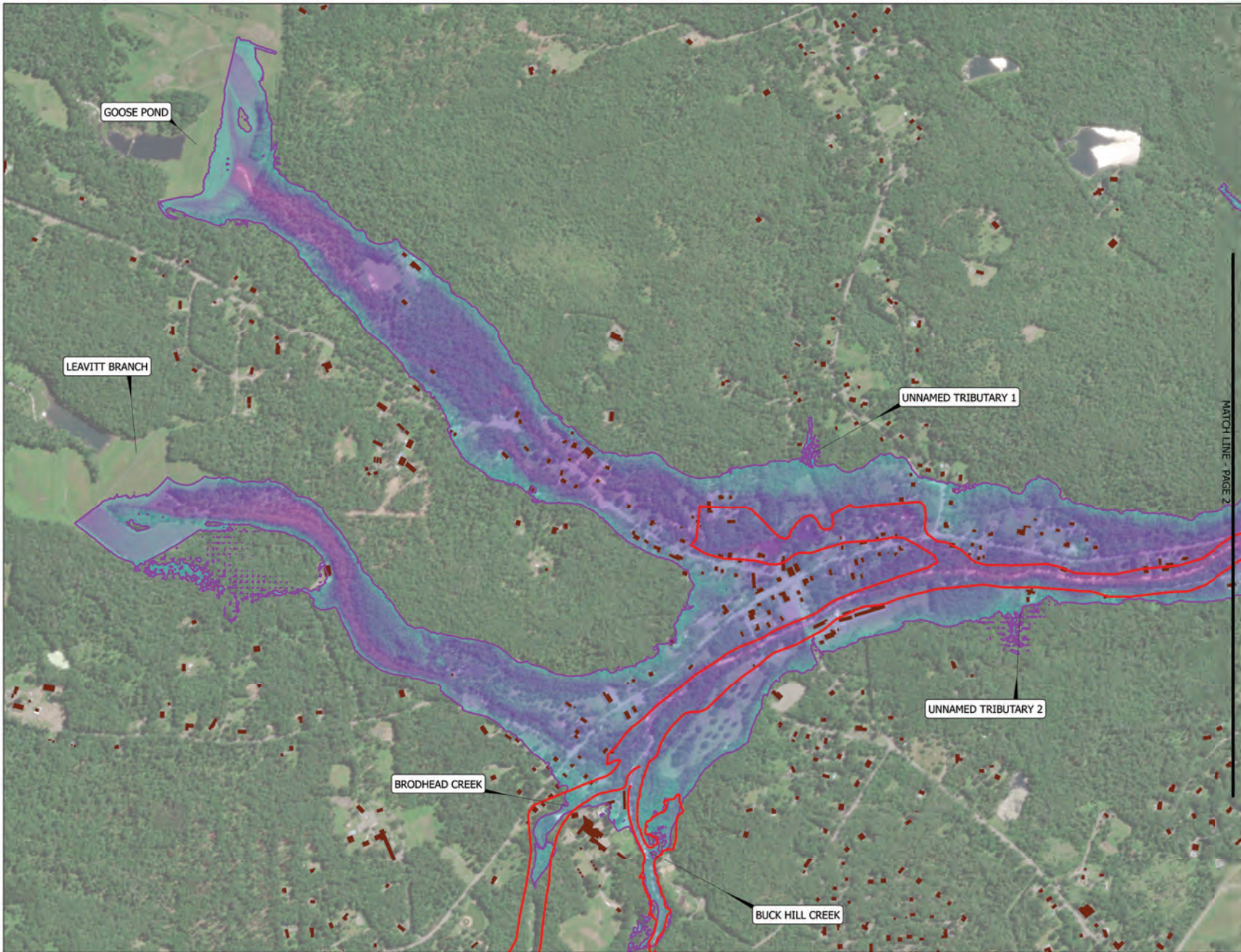
NOTES
1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS



United States
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Esri, CGIAR, USGS, datapug, New Jersey Office of GIS, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Maxar



**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

SCENARIO 2 NO ACTION ALTERNATIVE
INUNDATION MAP
PAGE 1 OF 4



LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
 - INUNDATION BOUNDARY SCENARIO 2
 - BUILDING FOOTPRINT
 - SCENARIO 2 INUNDATION DEPTH
- VALUE
- 35 FT
 - 30 FT
 - 25 FT
 - 20 FT
 - 15 FT
 - 10 FT
 - 5 FT
 - 0.001 FT

NOTES

- FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

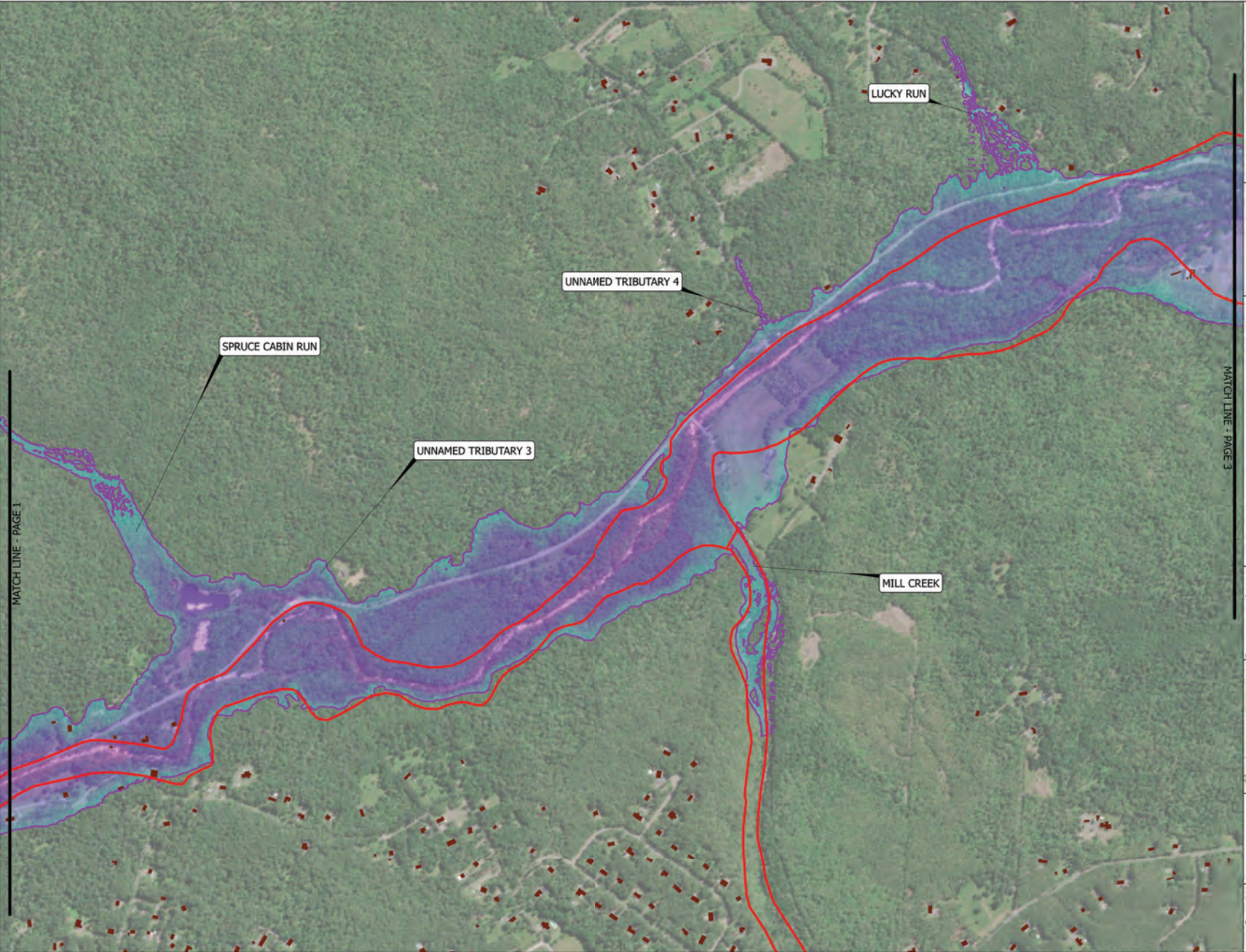
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DRAWING NO. 33



**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

**SCENARIO 2 NO ACTION ALTERNATIVE
INUNDATION MAP**
PAGE 2 OF 4



LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
 - INUNDATION BOUNDARY SCENARIO 2
 - BUILDING FOOTPRINT
 - SCENARIO 2 INUNDATION DEPTH
- VALUE
- 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 2 NO ACTION ALTERNATIVE
INUNDATION MAP
PAGE 3 OF 4



400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
 - INUNDATION BOUNDARY SCENARIO 2
 - BUILDING FOOTPRINT
 - SCENARIO 2 INUNDATION DEPTH
- VALUE
- 35 FT
 - 30 FT
 - 25 FT
 - 20 FT
 - 15 FT
 - 10 FT
 - 5 FT
 - 0.001 FT

NOTES

- FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



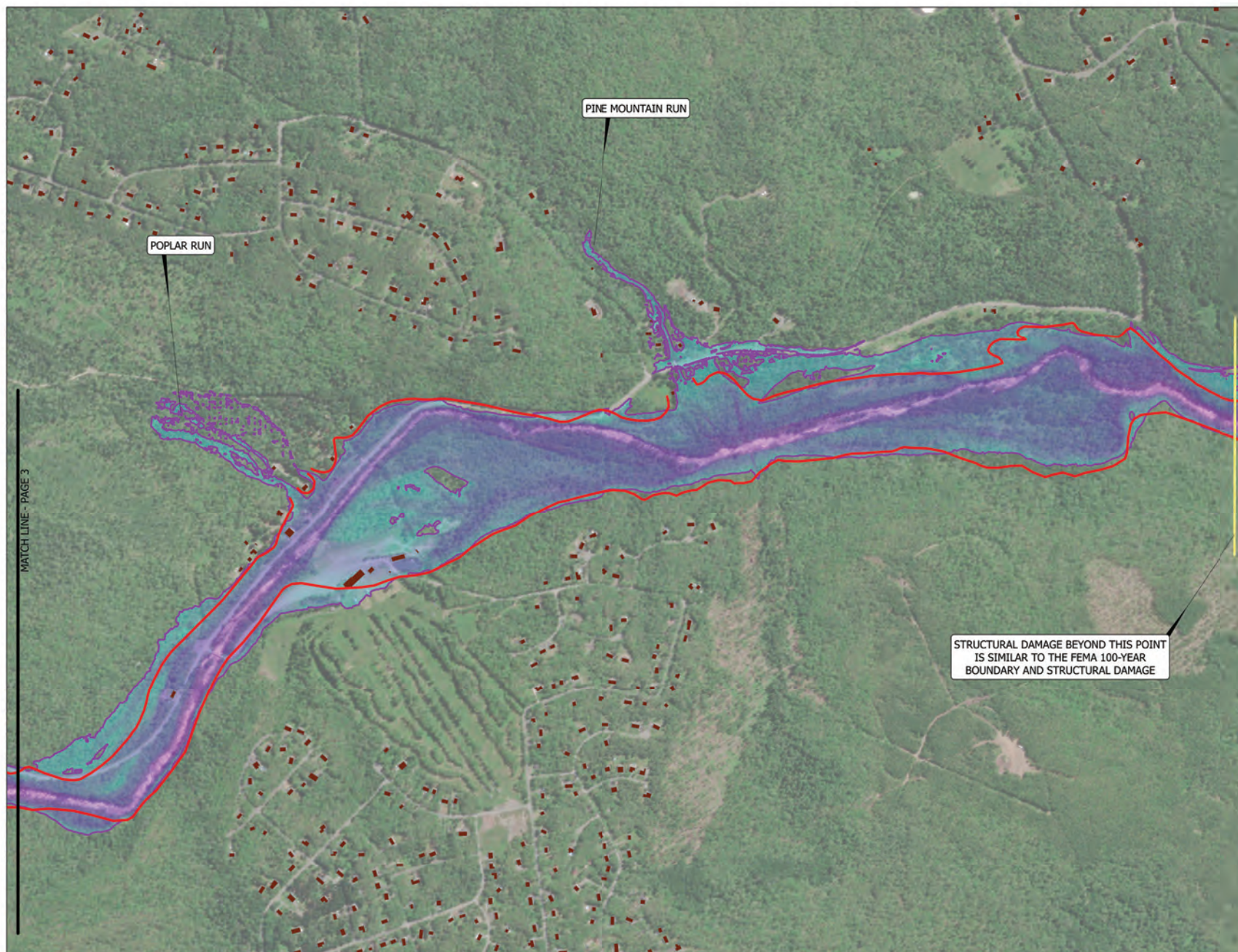
DDK
Engineering-IV

USDA
United States
Department of
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Natural Resources Conservation Service

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CHECKED BY: MJG DATE: 12/12/23

DRAWING NO. 35



**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

SCENARIO 2 NO ACTION ALTERNATIVE
INUNDATION MAP
PAGE 4 OF 4



800 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- INUNDATION BOUNDARY SCENARIO 2
- BUILDING FOOTPRINT

SCENARIO 2 INUNDATION DEPTH

VALUE

- 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



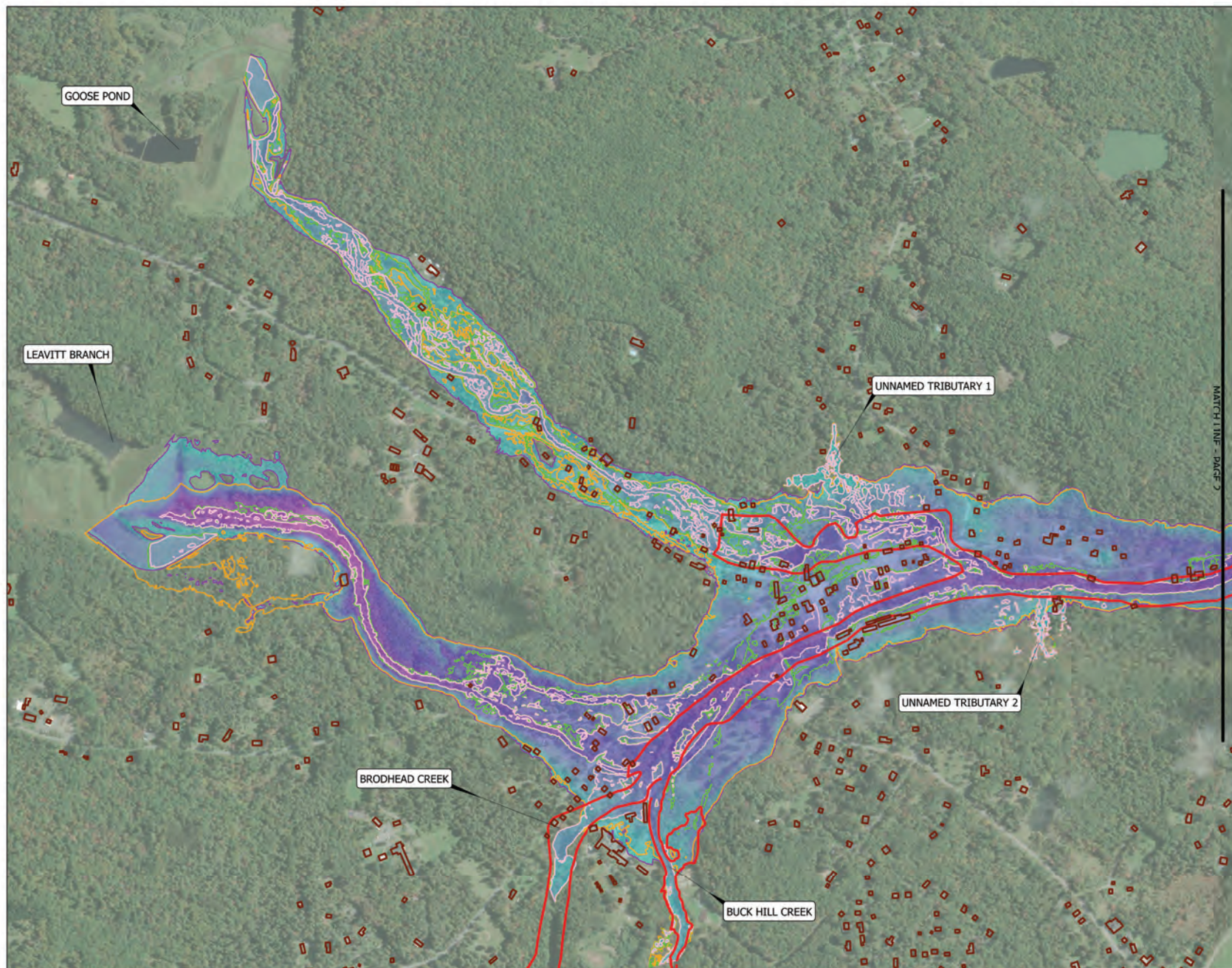
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Natural Resources Conservation Service

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CHECKED BY: MJG DATE: 12/12/23

DRAWING NO. 36



BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

GOOSE PREFERRED DESIGN OPTION
INUNDATION MAP
PAGE 1 OF 5



800 200 0 400
US Feet

LEGEND

- BUILDING
 - FEMA 100-YEAR FLOOD BOUNDARY
 - 100 YEAR INUNDATION BOUNDARY
 - 200 YEAR INUNDATION BOUNDARY
 - 500 YEAR INUNDATION BOUNDARY
 - FRH INUNDATION BOUNDARY
 - FRH INUNDATION DEPTH
- VALUE
- 39 FT
 - 35 FT
 - 30 FT
 - 25 FT
 - 20 FT
 - 15 FT
 - 10 FT
 - 5 FT
 - 0.01

NOTES

- FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



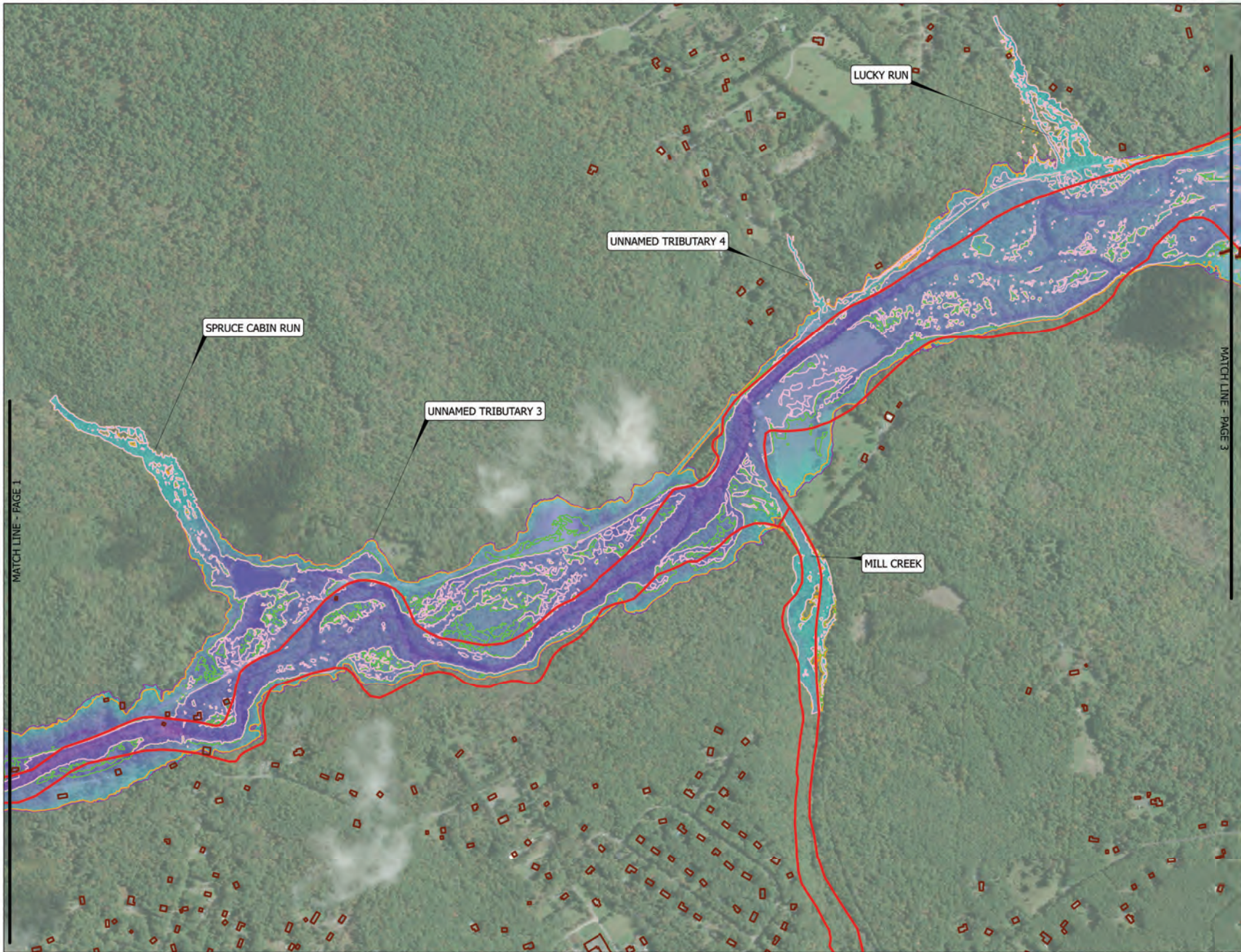
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USDA
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Agriculture
Natural Resources Conservation Service

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CHECKED BY: --- DATE: ---

DRAWING NO. 50



**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

**GOOSE PREFERRED DESIGN OPTION
INUNDATION MAP**
PAGE 2 OF 5



LEGEND

- BUILDINGS
 - FEMA 100-YEAR FLOOD BOUNDARY
 - 100 YEAR INUNDATION BOUNDARY
 - 200 YEAR INUNDATION BOUNDARY
 - 500 YEAR INUNDATION BOUNDARY
 - FRIH INUNDATION BOUNDARY
 - FRIH INUNDATION DEPTH
- VALUE
- 39 FT
 - 35 FT
 - 30 FT
 - 25 FT
 - 20 FT
 - 15 FT
 - 10 FT
 - 5 FT
 - 0.01

NOTES

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

Coordinate System: NAD83 / Pennsylvania North



DRAWN BY: MMS DATE: 1/13/25

CHECKED BY: --- DATE: ---

DRAWING NO. 51

BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

GOOSE PREFERRED DESIGN OPTION
INUNDATION MAP
PAGE 3 OF 5



800 200 0 400
US Feet

LEGEND

- BUILDING
 - FEMA 100-YEAR FLOOD BOUNDARY
 - 100 YEAR INUNDATION BOUNDARY
 - 200 YEAR INUNDATION BOUNDARY
 - 500 YEAR INUNDATION BOUNDARY
 - FRH INUNDATION BOUNDARY
 - FRH INUNDATION DEPTH
- VALUE
- 39 FT
 - 35 FT
 - 30 FT
 - 25 FT
 - 20 FT
 - 15 FT
 - 10 FT
 - 5 FT
 - 0.01

NOTES

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

Coordinate System: NAD83 / Pennsylvania North



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United States
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Natural Resources Conservation Service

DRAWN BY: MMS DATE: 1/13/25

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DRAWING NO. 52

BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

GOOSE PREFERRED DESIGN OPTION
INUNDATION MAP
PAGE 4 OF 5



800 200 0 400
US Feet

LEGEND

- BUILDING
- FEMA 100-YEAR FLOOD BOUNDARY
- 100 YEAR INUNDATION BOUNDARY
- 200 YEAR INUNDATION BOUNDARY
- 500 YEAR INUNDATION BOUNDARY
- FRH INUNDATION BOUNDARY
- FRH INUNDATION DEPTH

VALUE

39 FT
35 FT
30 FT
25 FT
20 FT
15 FT
10 FT
5 FT
0.01

NOTES

- FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



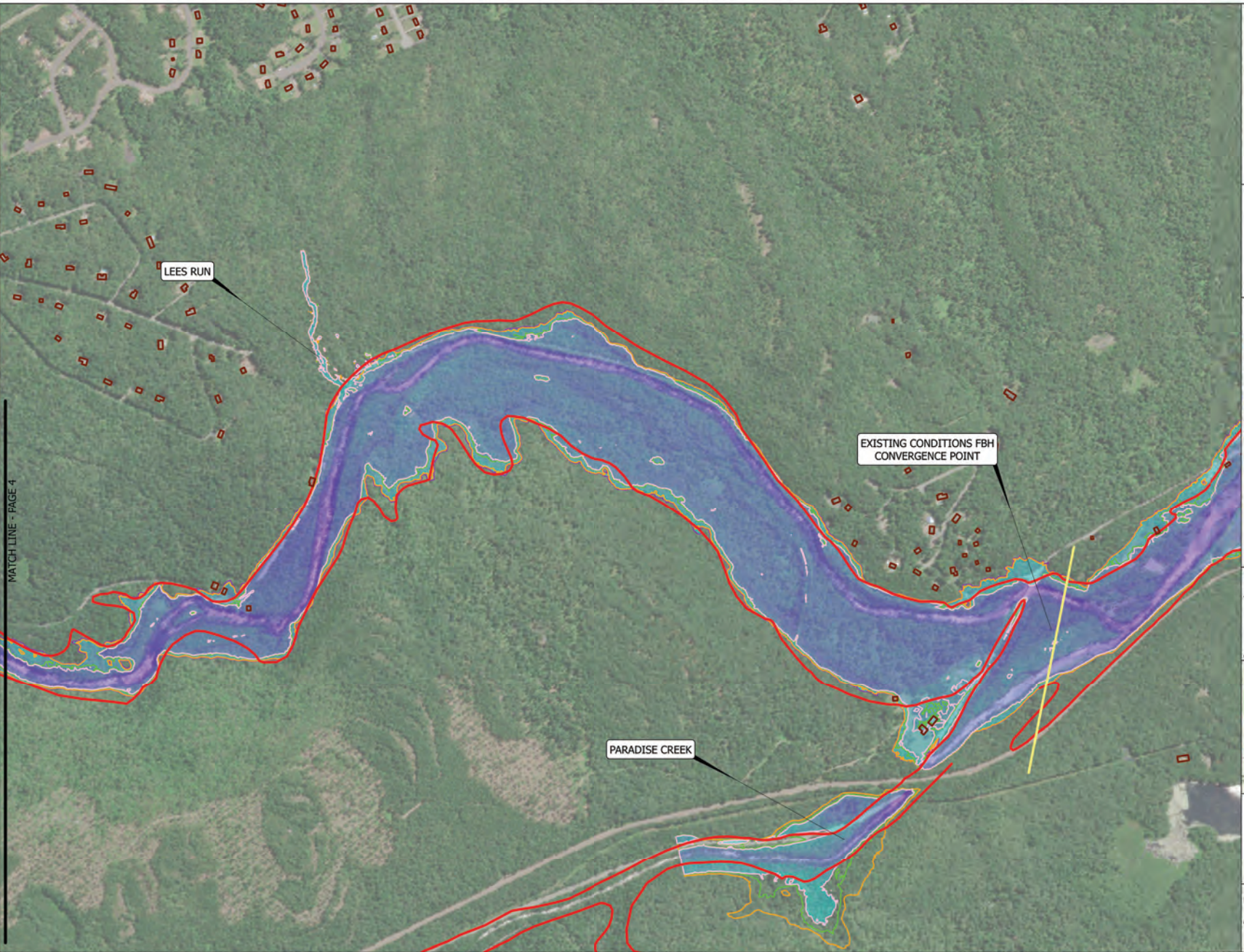
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DRAWING NO. 53



**BRODHEAD TRIBUTARIES
INUNDATION MAP**
LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

**GOOSE PREFERRED DESIGN OPTION
INUNDATION MAP**
PAGE 5 OF 5



800 200 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
- 39 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.01

NOTES

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

Coordinate System: NAD83 / Pennsylvania North



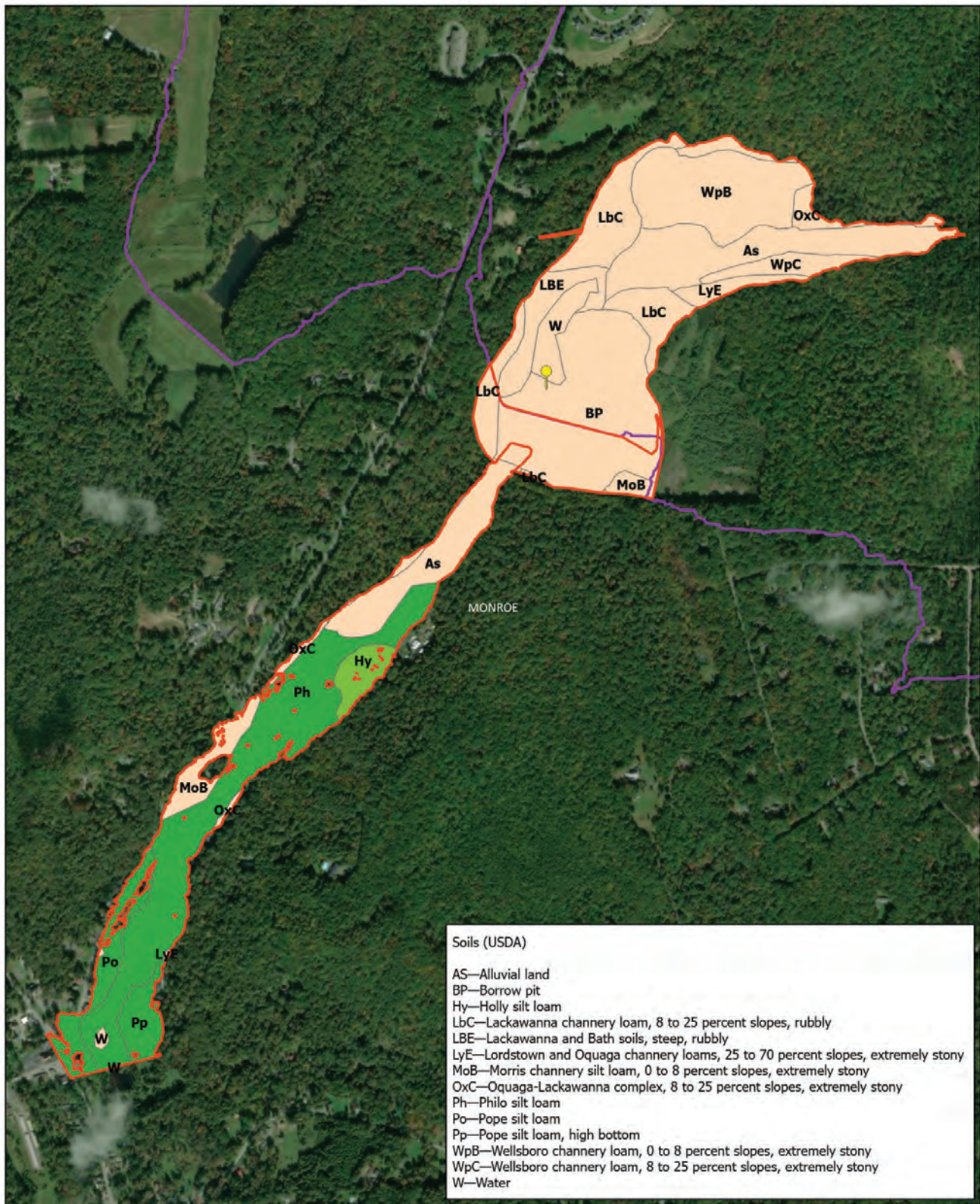
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Engineering-IV

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United States
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Natural Resources Conservation Service

DRAWN BY: MMS DATE: 1/13/25

CHECKED BY: --- DATE: ---

DRAWING NO. 54



Soils (USDA)

AS—Alluvial land
 BP—Borrow pit
 Hy—Holly silt loam
 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
 Ph—Philo silt loam
 Po—Pope silt loam
 Pp—Pope silt loam, high bottom
 WpB—Wellsboro channery loam, 0 to 8 percent slopes, extremely stony
 WpC—Wellsboro channery loam, 8 to 25 percent slopes, extremely stony
 W—Water

Soils

- Dam
- Study Area: PA-464
- 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**

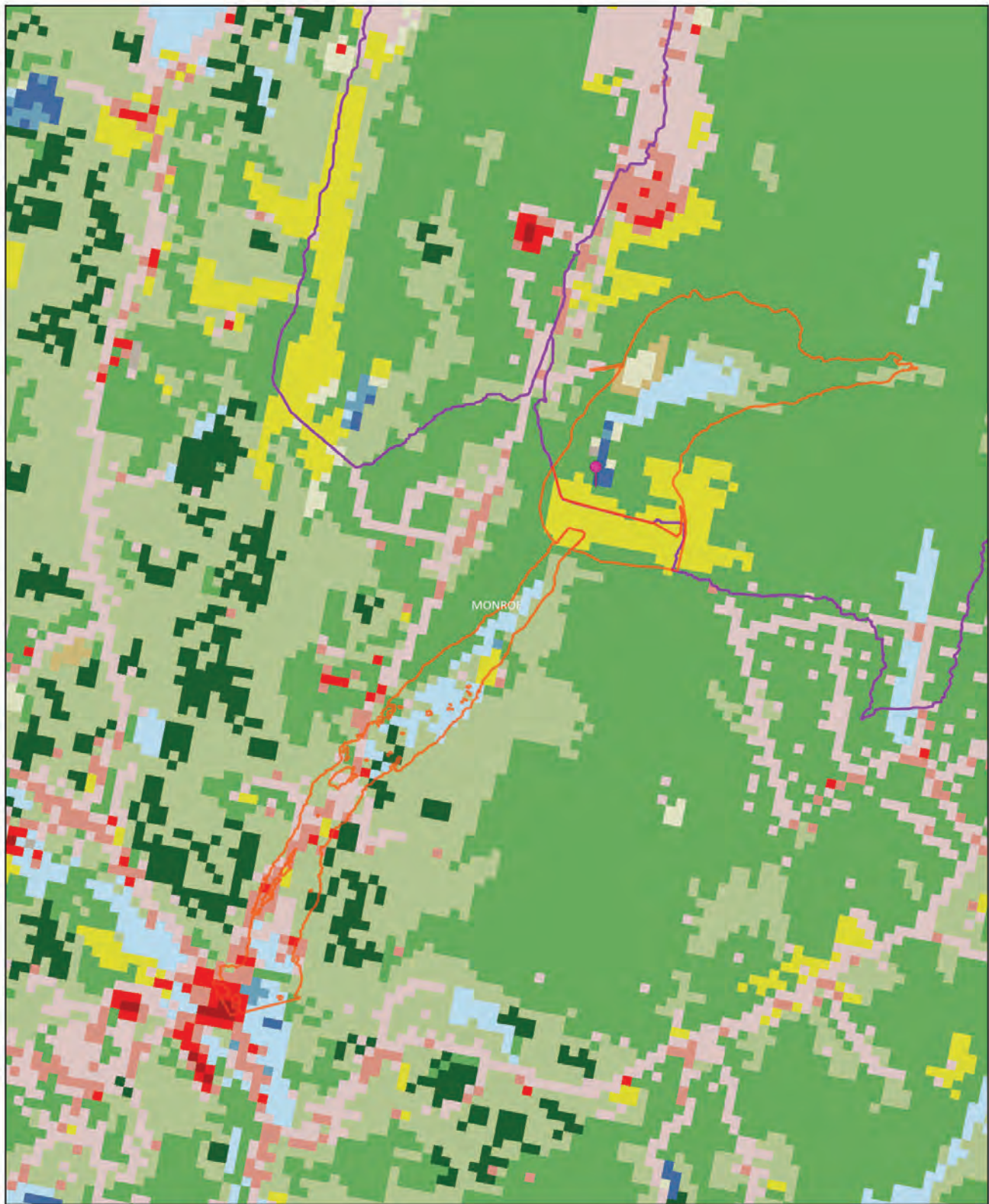
PROJECT LOCATION

**Brodhead Tributaries Watershed
 Monroe County,
 Pennsylvania**

DATE

February 2025





Landcover

- Dam
- Study Area: PA-464
- 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

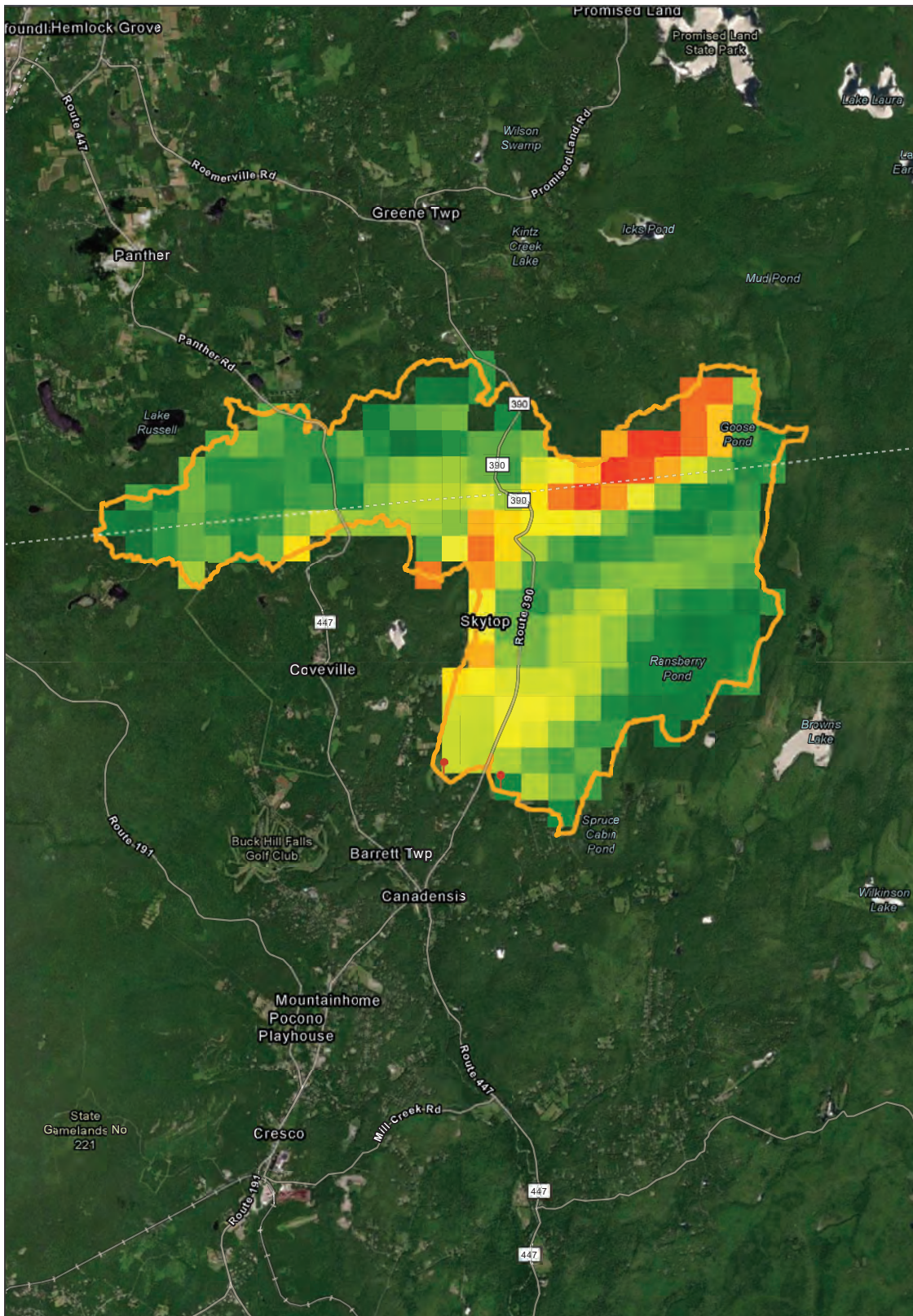
PROJECT LOCATION

Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

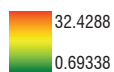




Water Resources

- Project Dams
- Brodhead Dam Watershed

Percent Slope



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.)

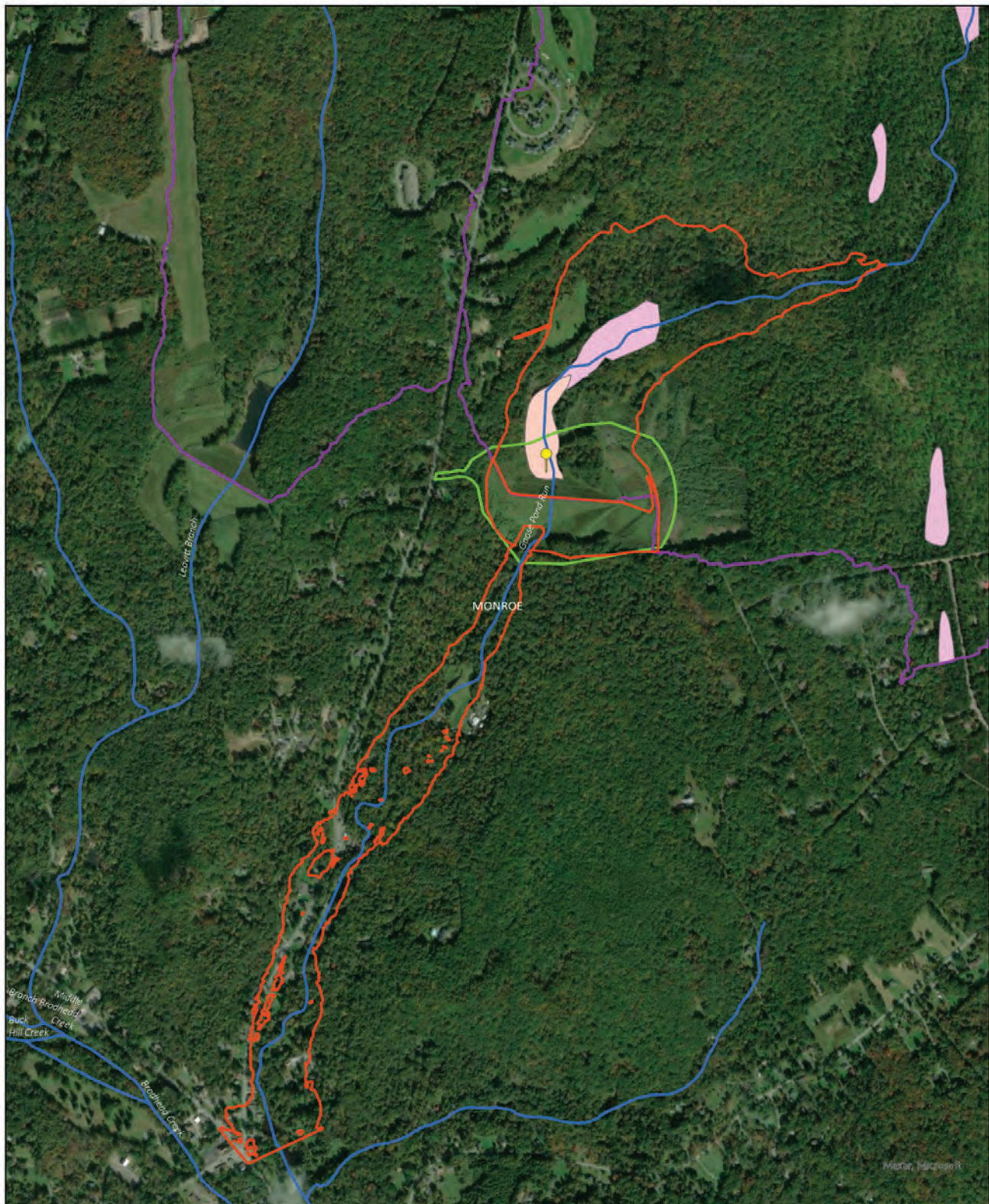


PROJECT
Brodhead Tributaries Watershed Plan

PROJECT LOCATION
Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

December 2022





Wetlands & Waterways

- Dam
- Study Area: PA-464
- 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 (Base map); 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



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Plotted By: [redacted] Plot Date: 3/27/2025 8:36 AM

