Map Appendix

for

An Evaluation of Terrestrial Ecosystem Restoration Options

for the

Northern Ecoregion

of the

Upper Mississippi River System

Prepared for:

U.S. Army Corps of Engineers

St. Paul and Rock Island Districts
St. Paul, Minnesota, and Rock Island, Illinois

Prepared By:

HDR Engineering
Tony Randazzo, Lead Author

September, 2013

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Appendix Index

A. U.S. Geological Survey 1:100,000 topographic maps showing major physical features of the Northern Ecoregion.

B. Glaciofluvial Land Sediment Assemblages (LSAs) of the Northern Ecoregion (from Madigan et. al. 1998).

C. Approximate age of LSAs in the Northern Ecoregion (adapted from Madigan, et. al. 1998).

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I. 1927, 1929 and 1931 aerial photographs of the Northern Ecoregion (from U.S. Army Corps of Engineers, St. Paul District).

J. 2000 aerial photographs of the Northern Ecoregion.

K. 2011 and 2012 aerial photographs of the Northern Ecoregion.

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O. 2000 Landcover of the Northern Ecoregion (prepared by the U.S. Geological Survey Upper Midwest Environmental Sciences Center, La Crosse, WI).

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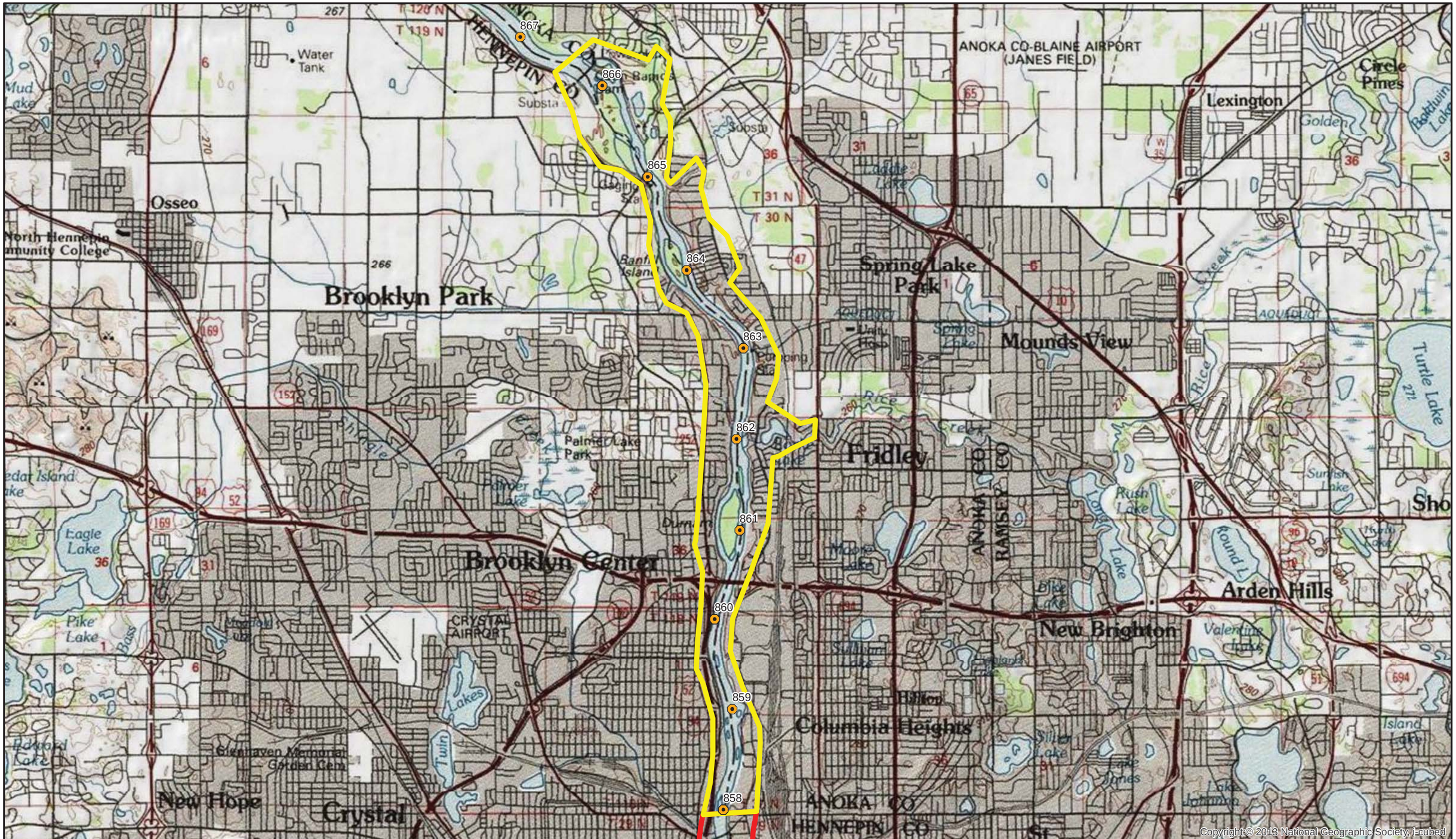
Q. Map of Restoration Potential of major vegetation communities determined from HGM matrix developed for the Northern Ecoregion. Determination of Potential Restoration areas developed using Soil Texture, Landscape Sediment Assemblages, Flood Frequency Data, Topography and analysis of pre-contact and existing community types. See HGM Report Table 7. Map is overlain on 2011/2012 aerial photographs of the Northern Ecoregion.

R. Map of Restoration Potential of major vegetation communities determined from HGM matrix developed for the Northern Ecoregion. Determination of Potential Restoration areas developed using Soil Texture, Landscape Sediment Assemblages, Flood Frequency Data, Topography and analysis of pre-contact and existing community types. See HGM Report Table 7. Map is overlain on World Topographic Map of the Northern Ecoregion.



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Map 11x17 Landscape

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Coon Rapids to St. Anthony Pool: Page 1 of 9
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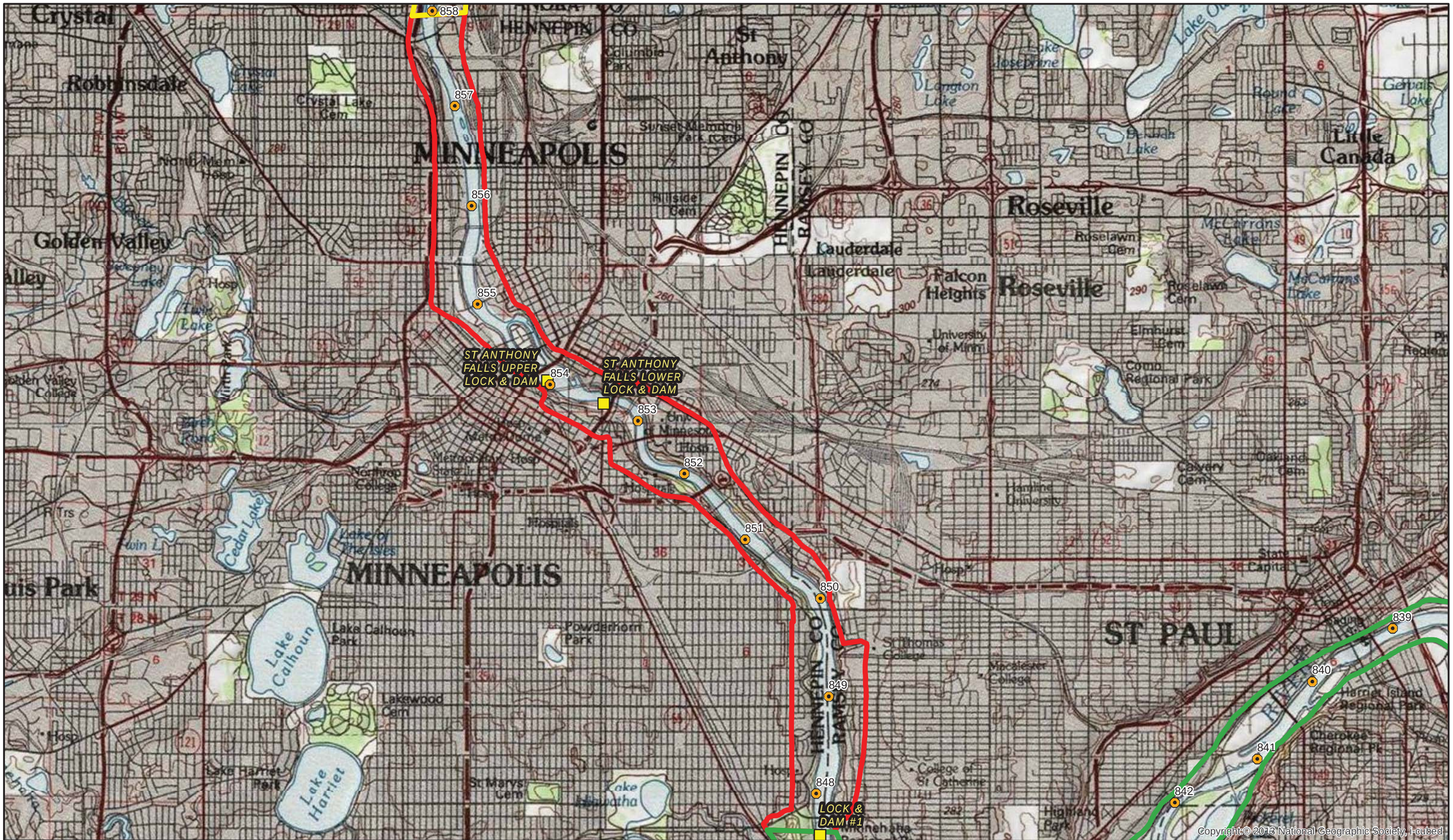

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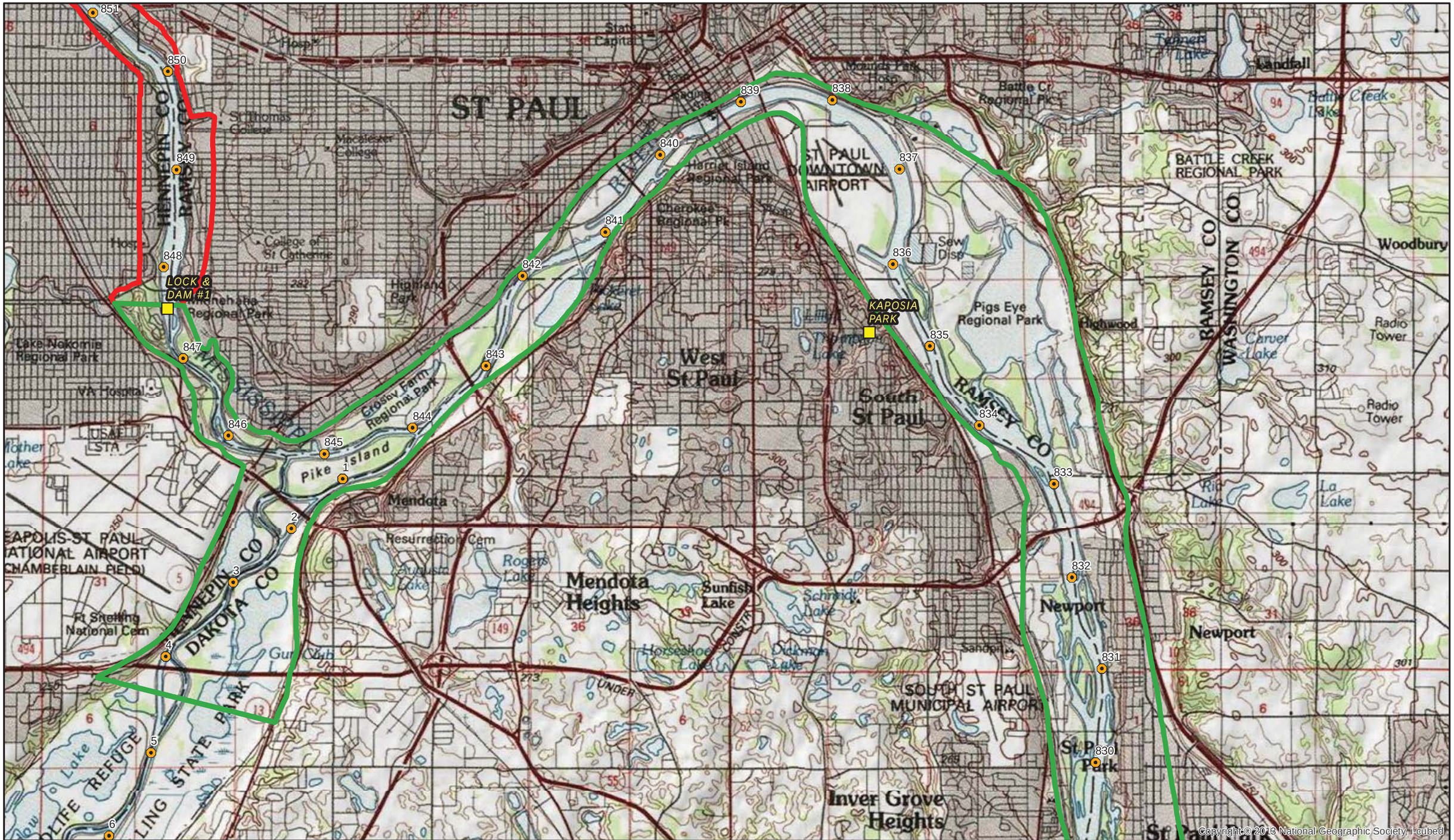

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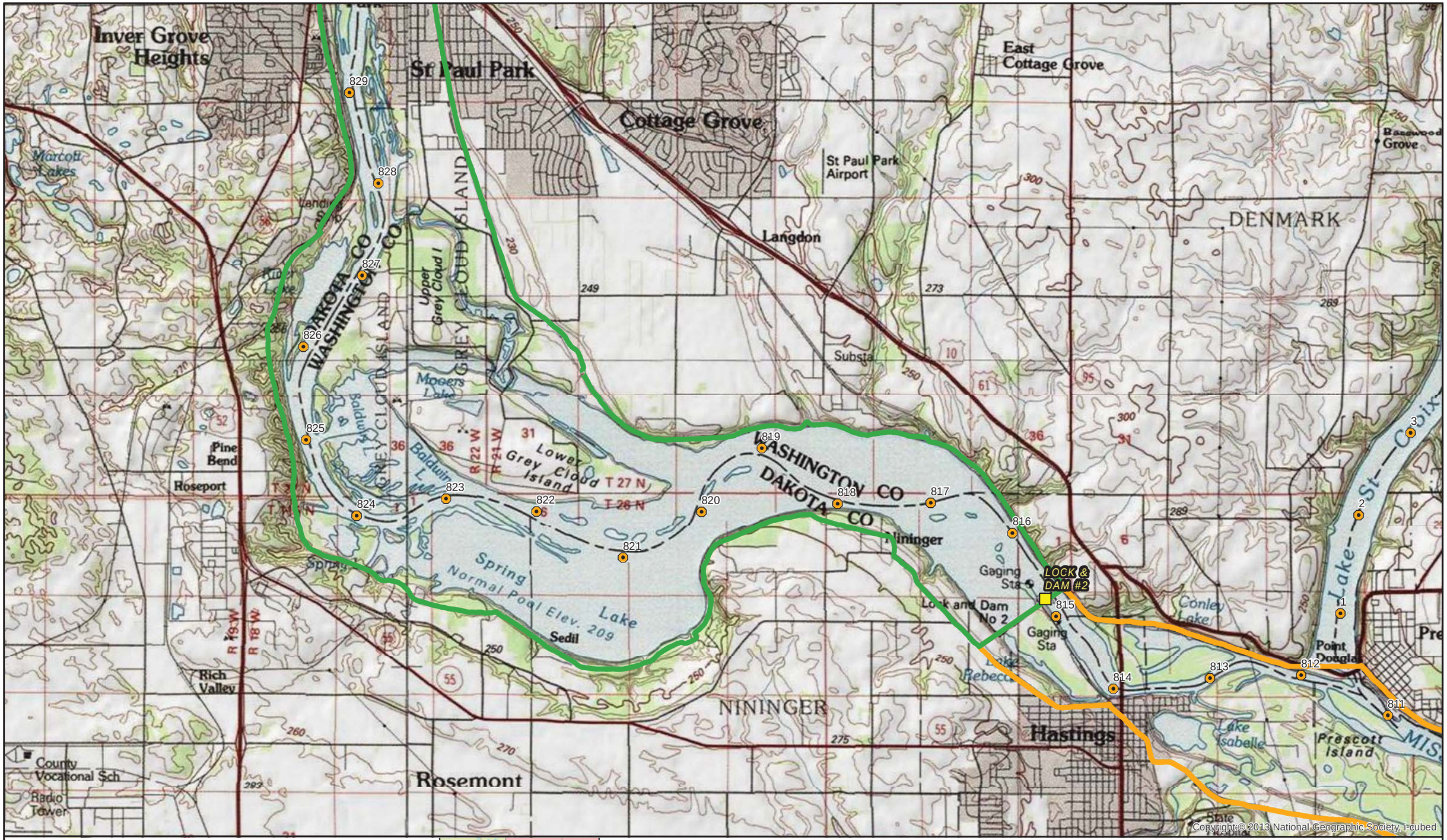

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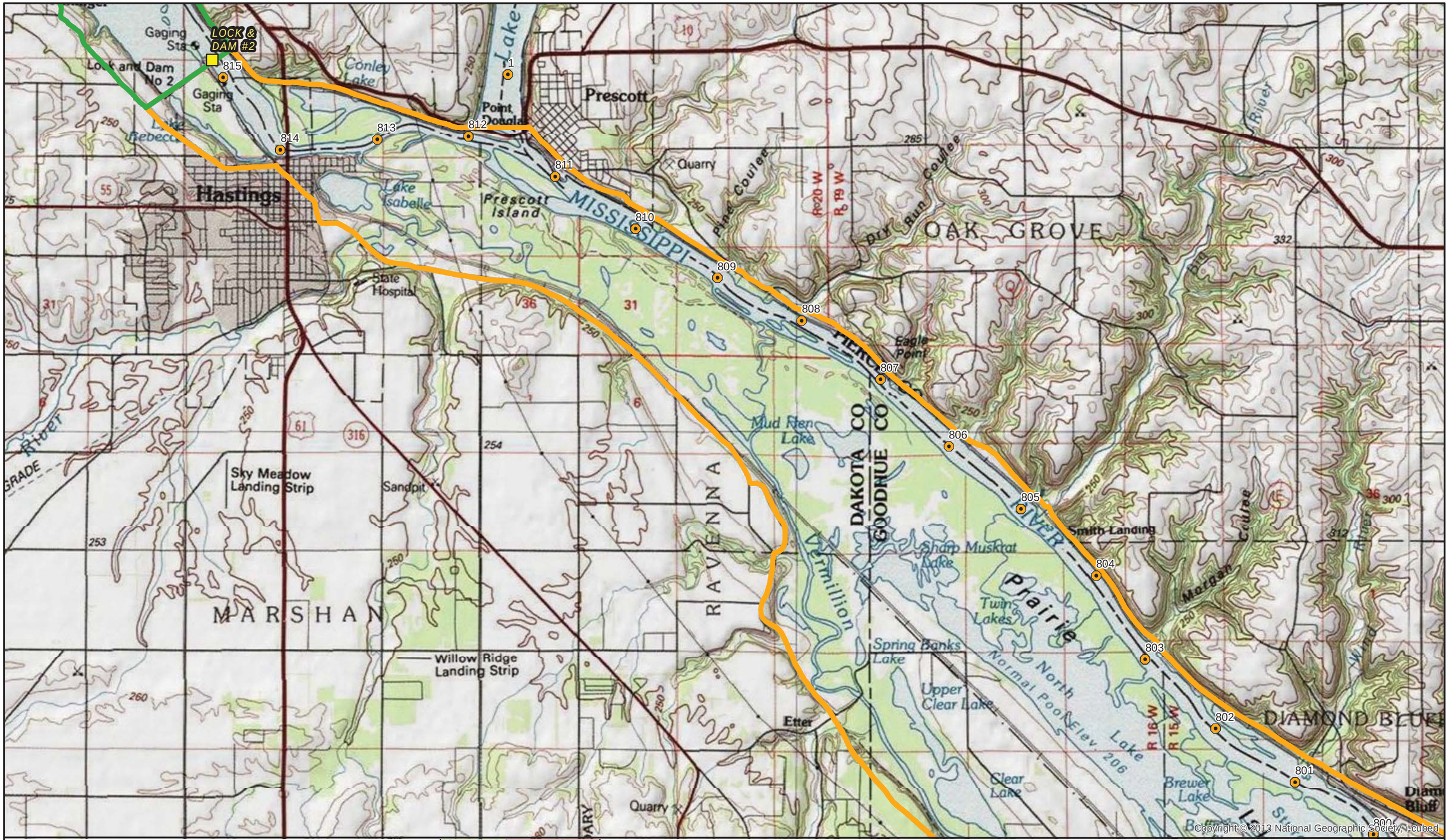

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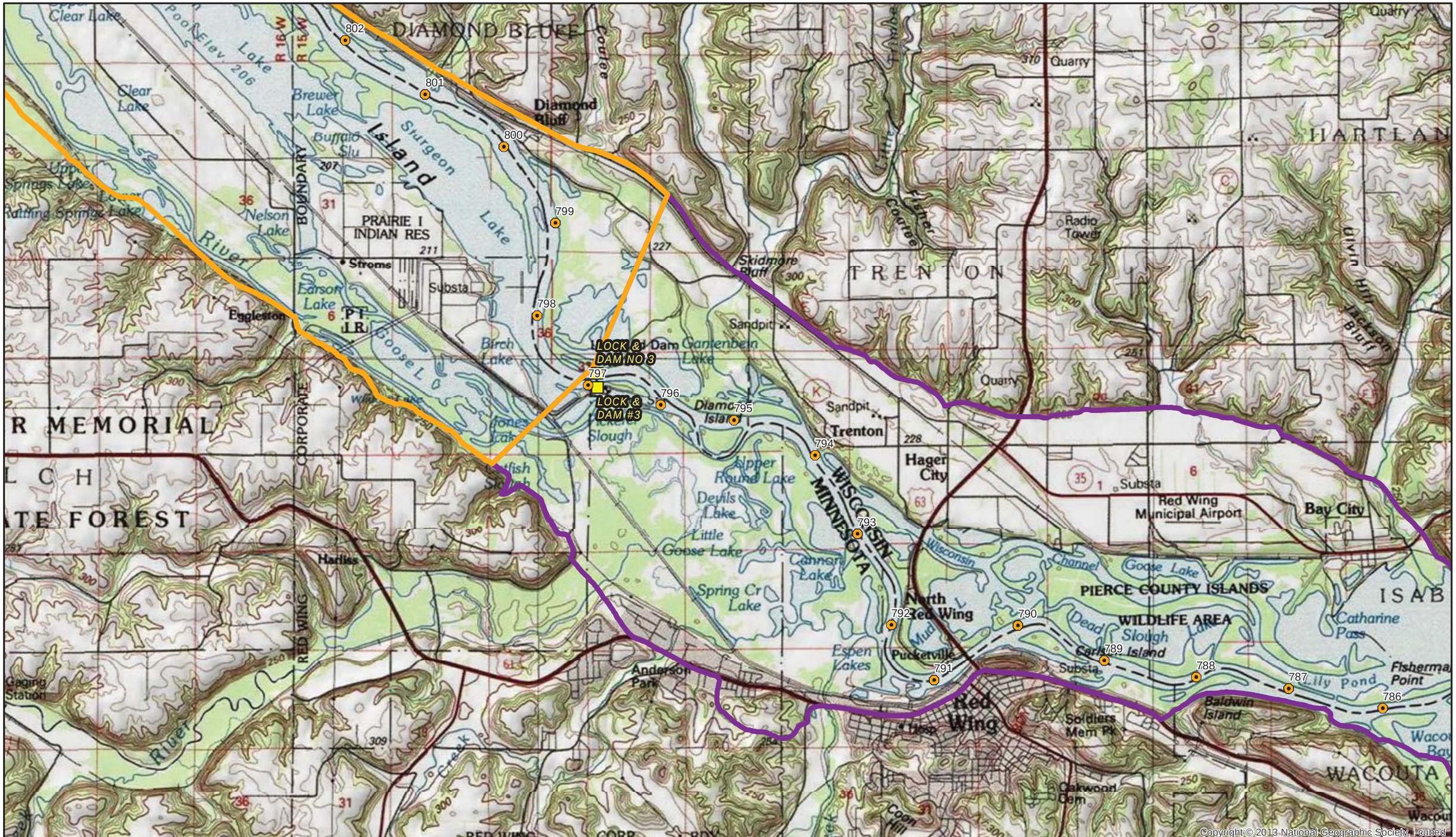

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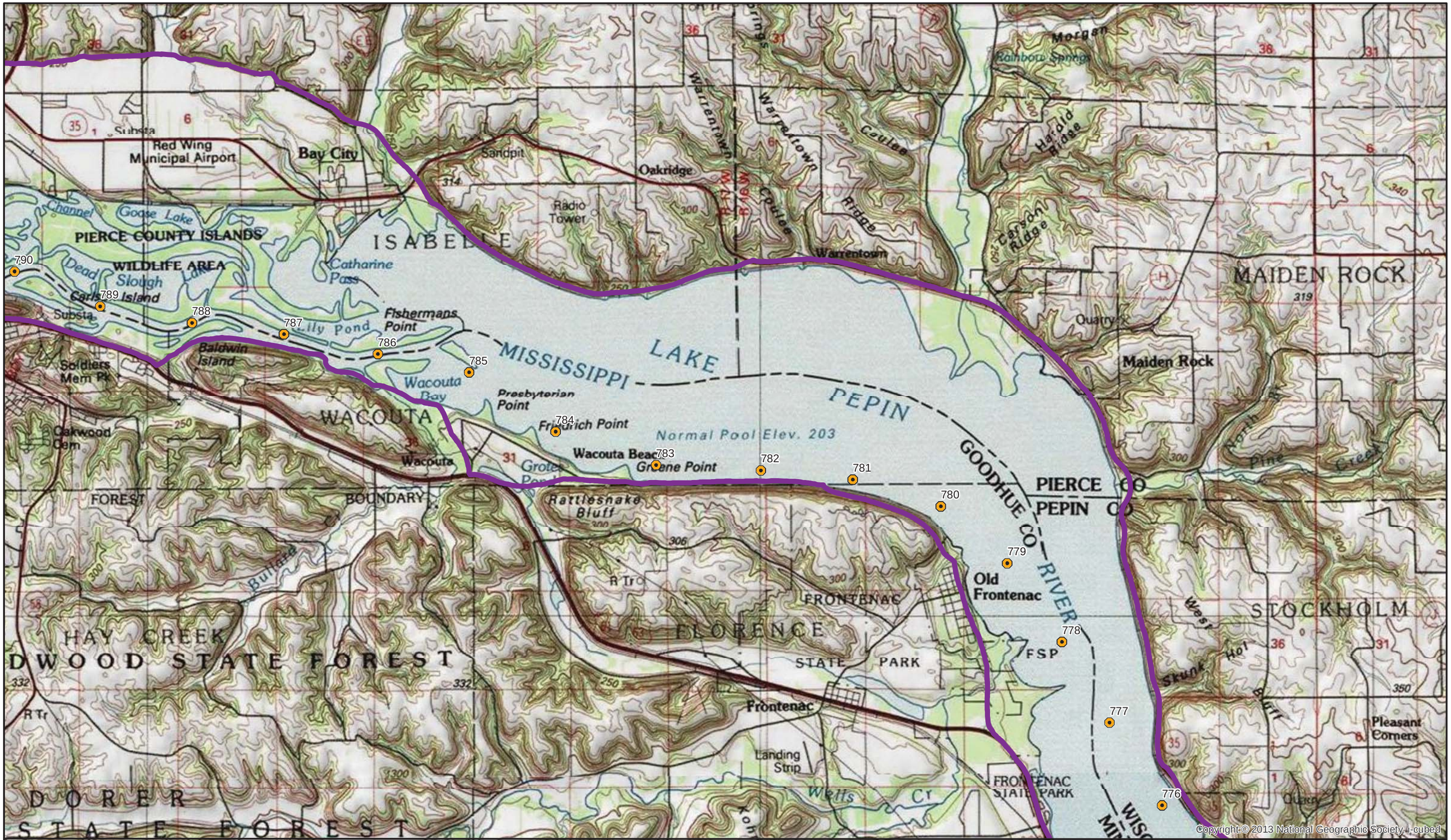

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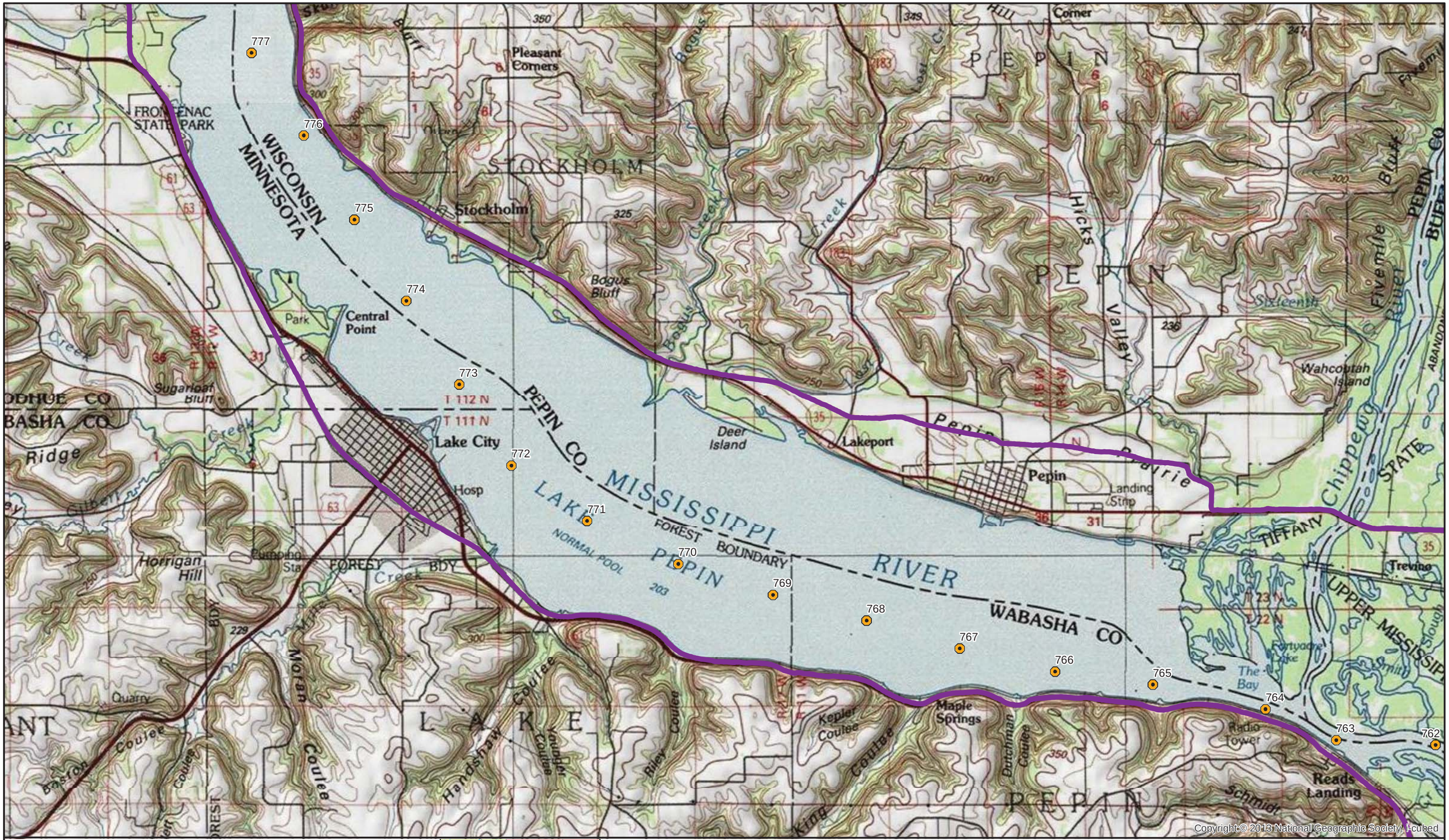

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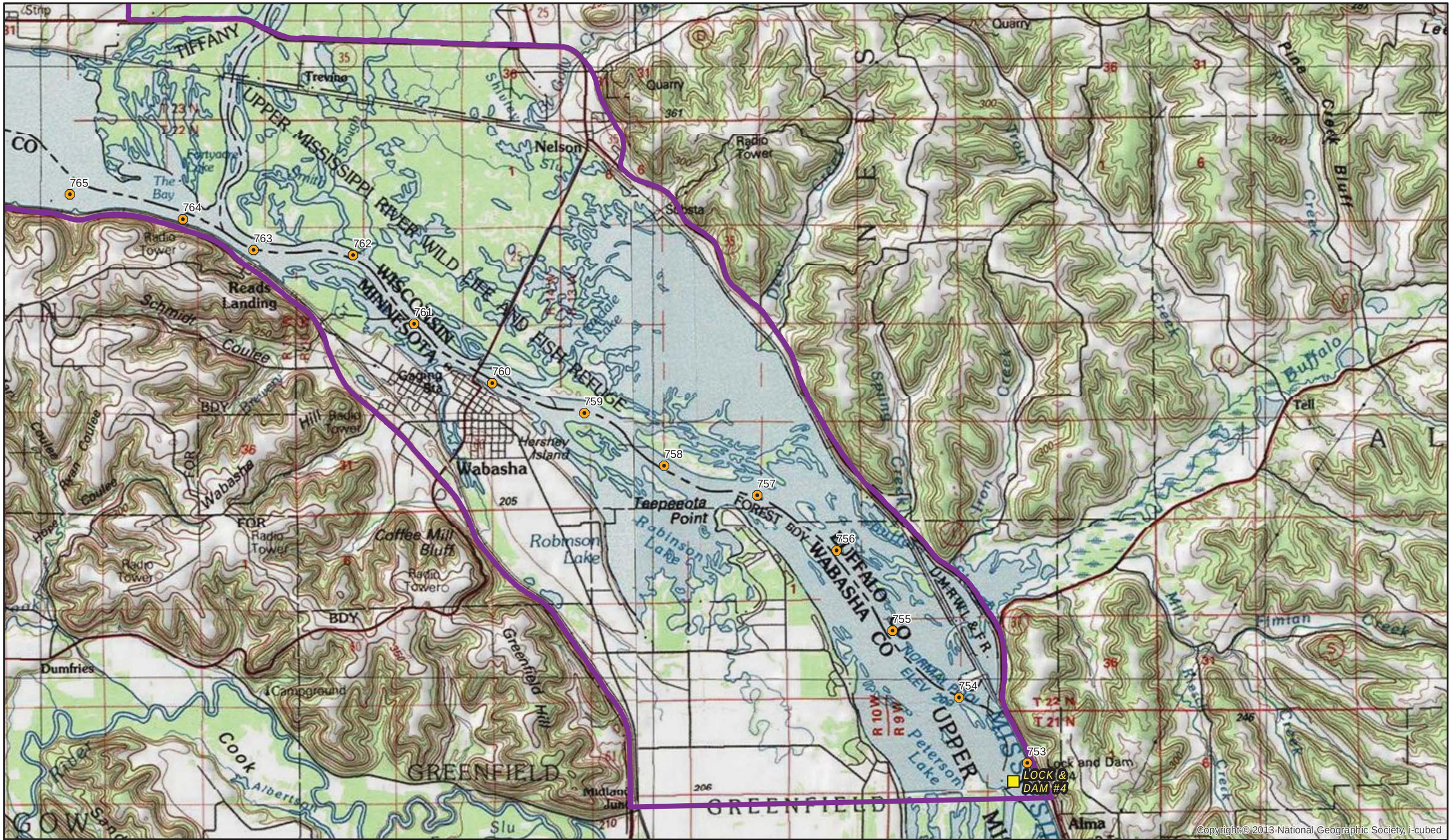

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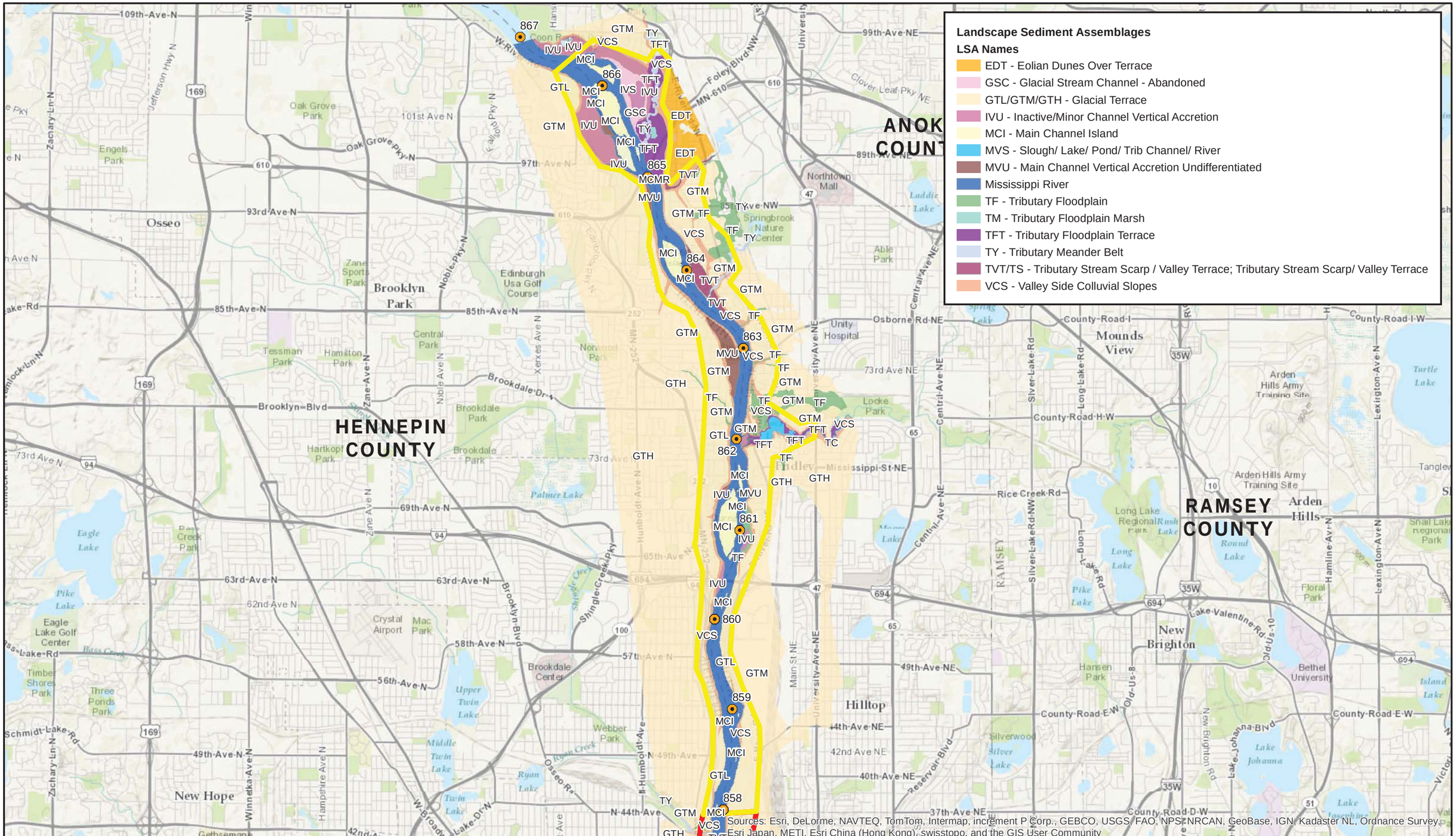

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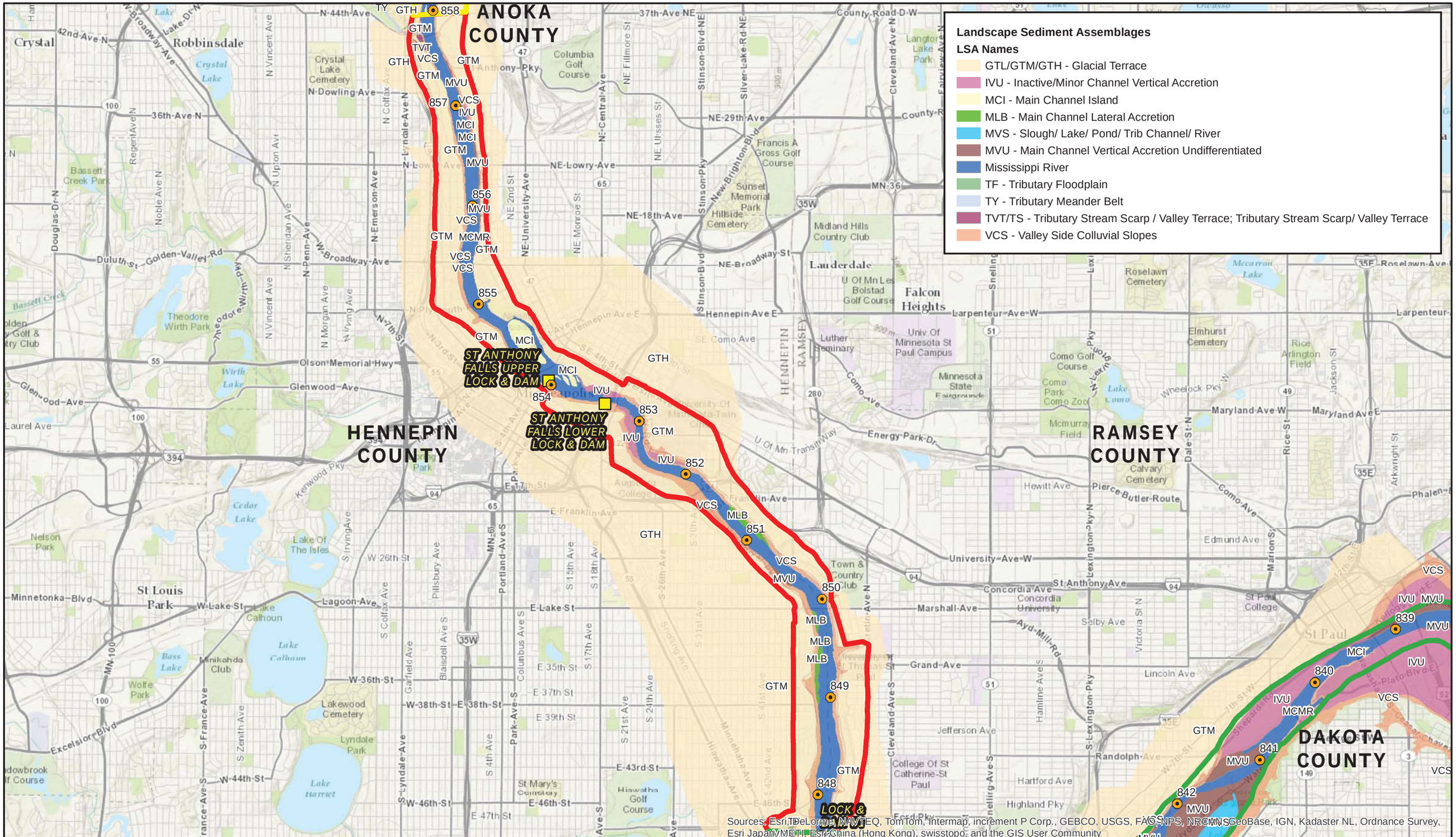

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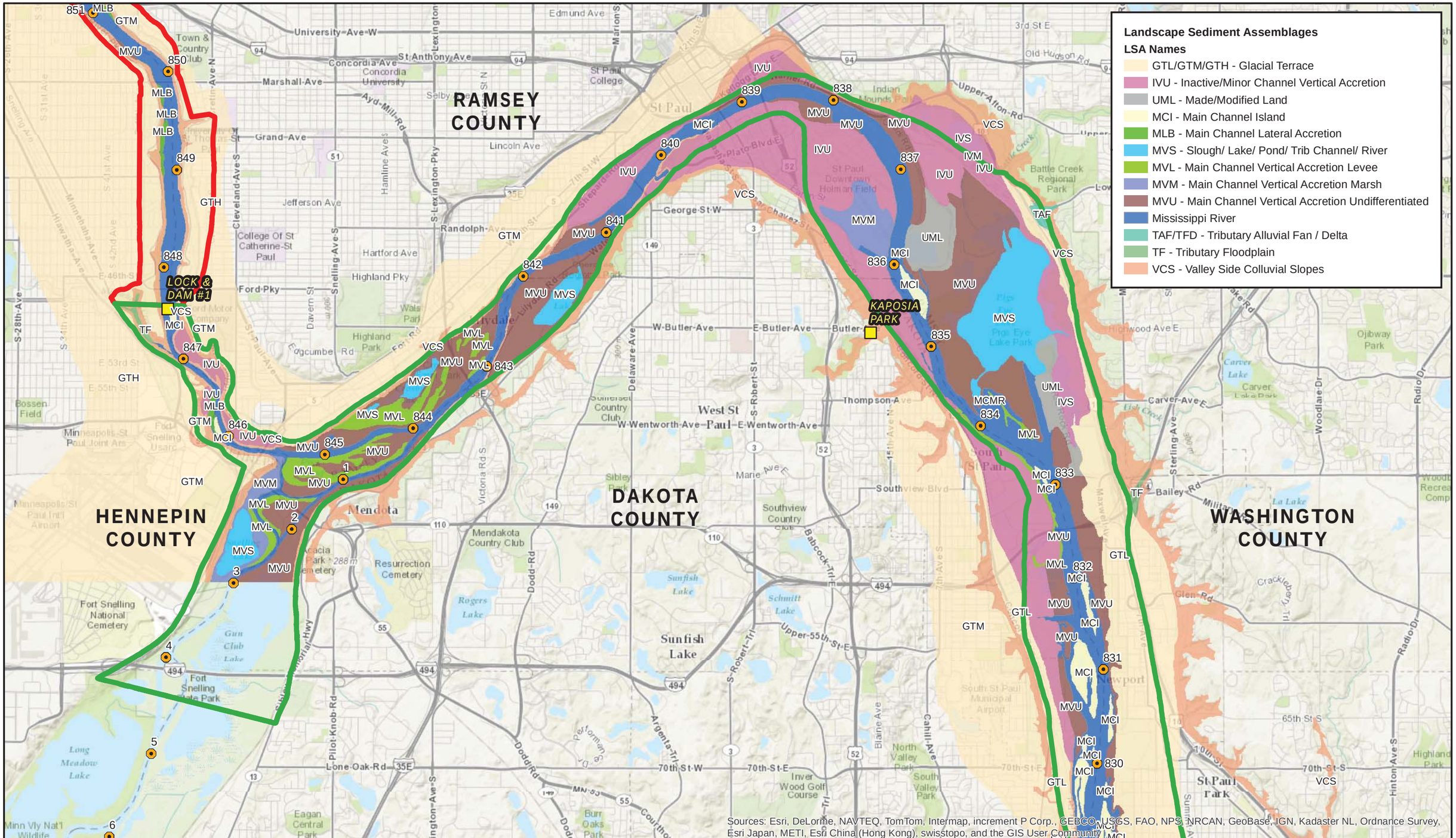

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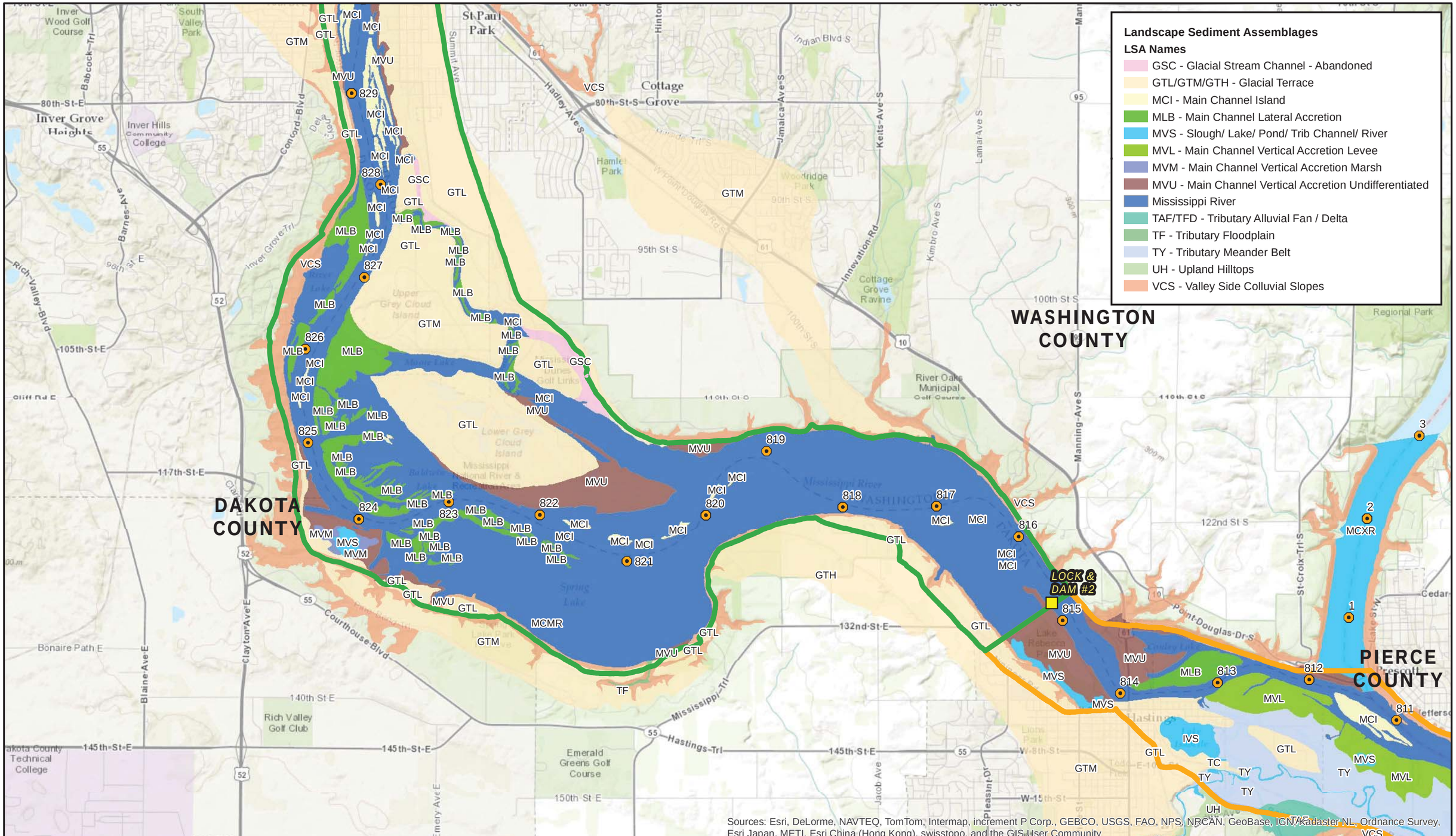

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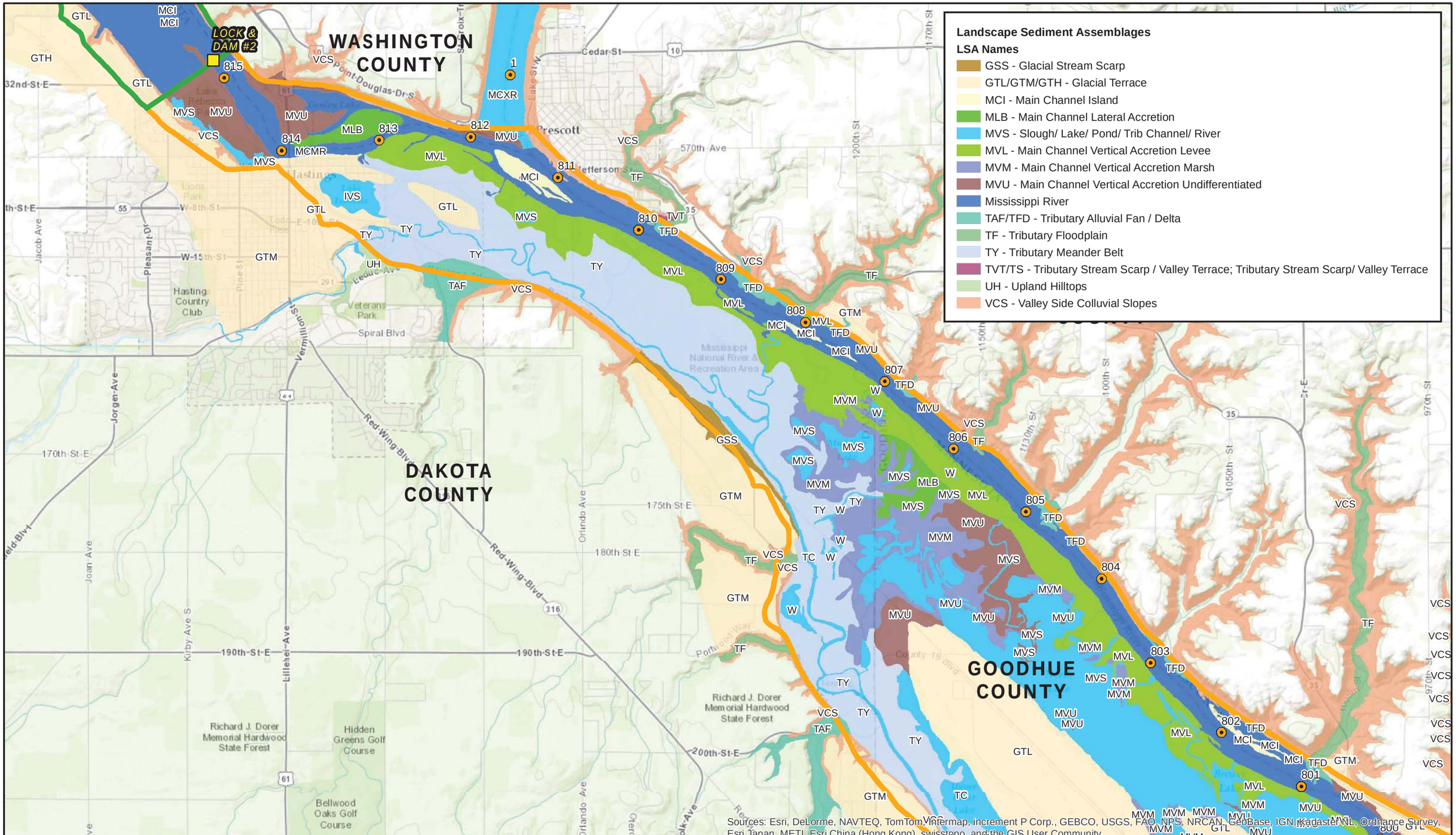

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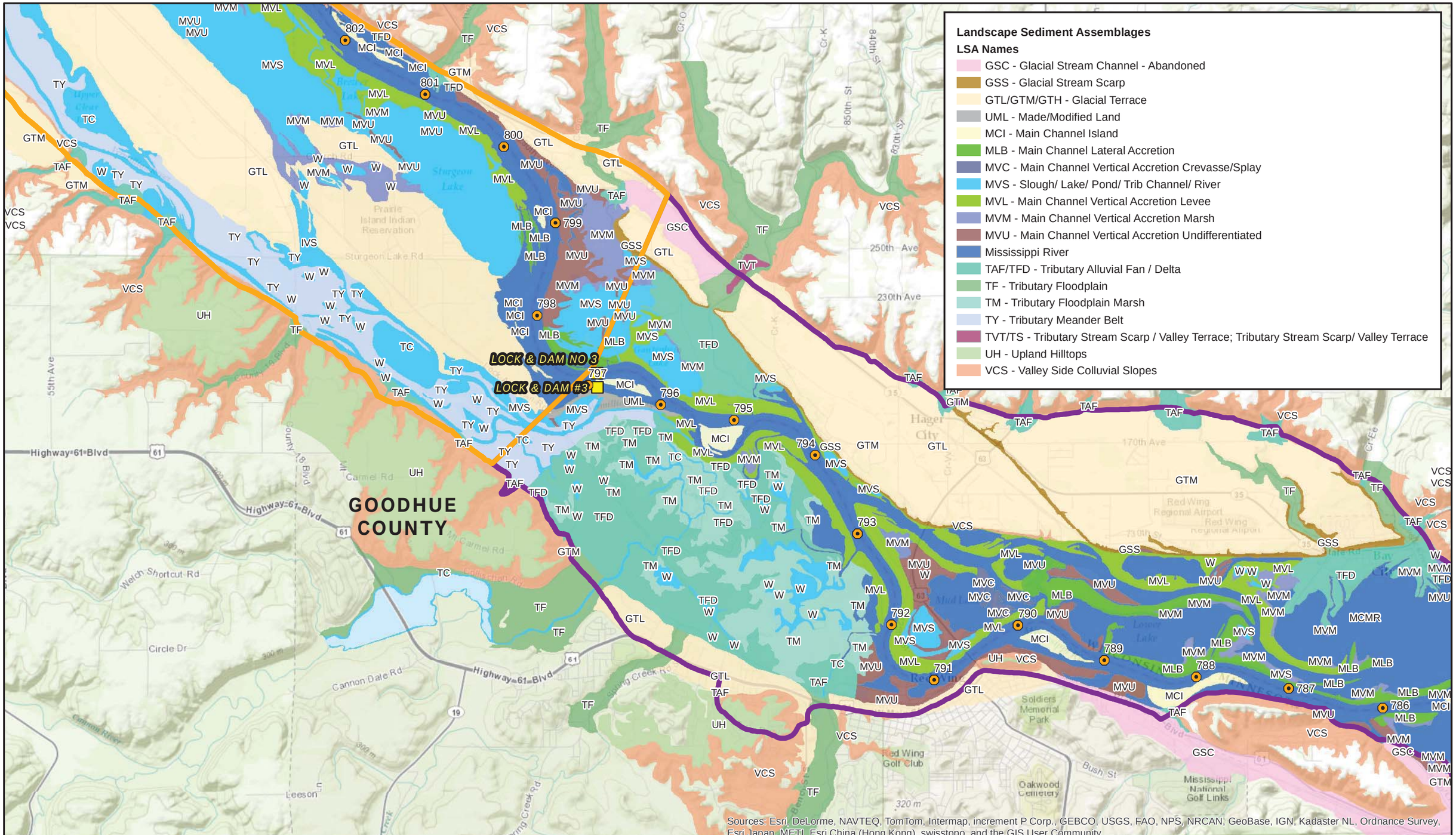

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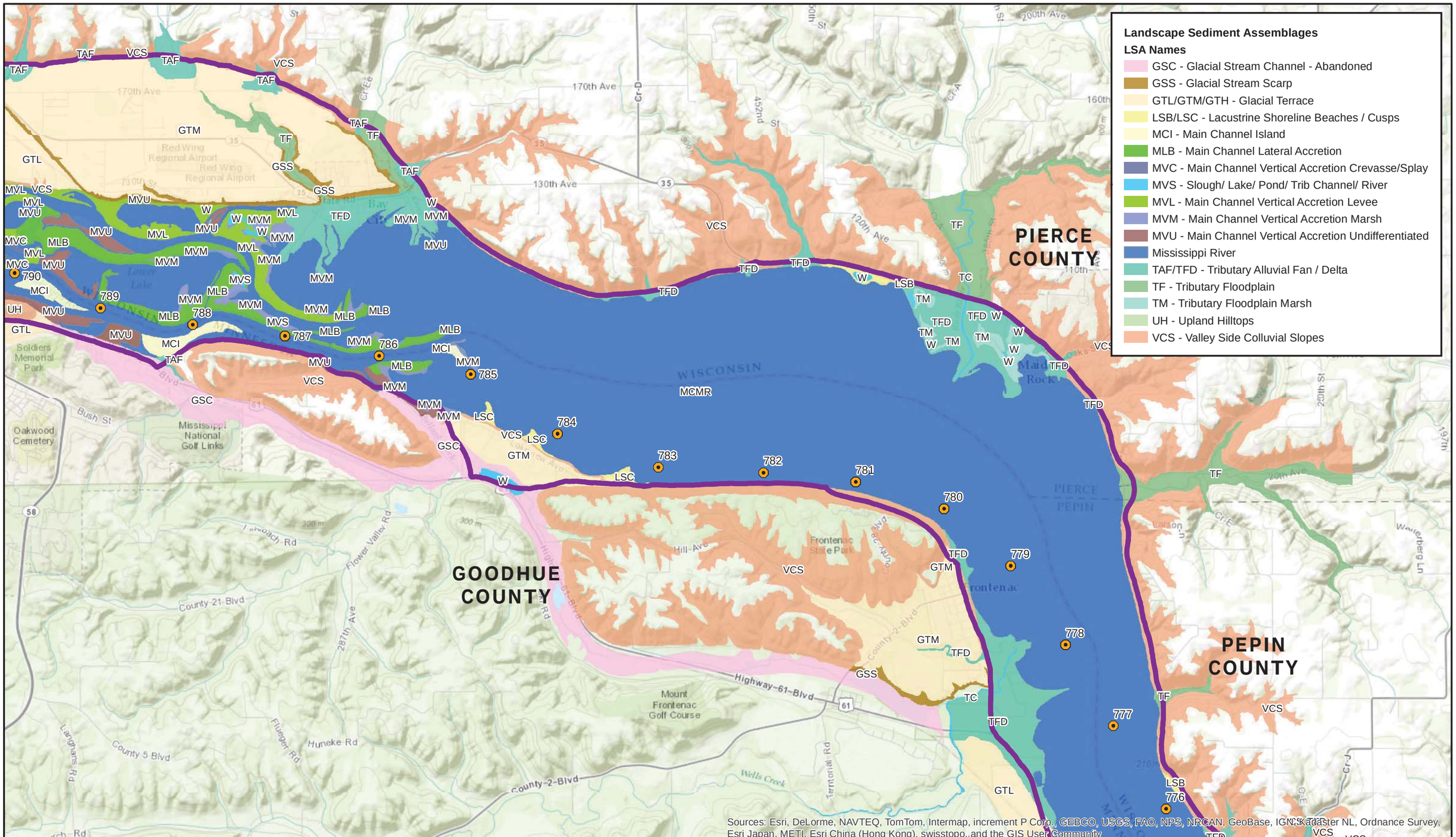

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Map 11x17 Landscape

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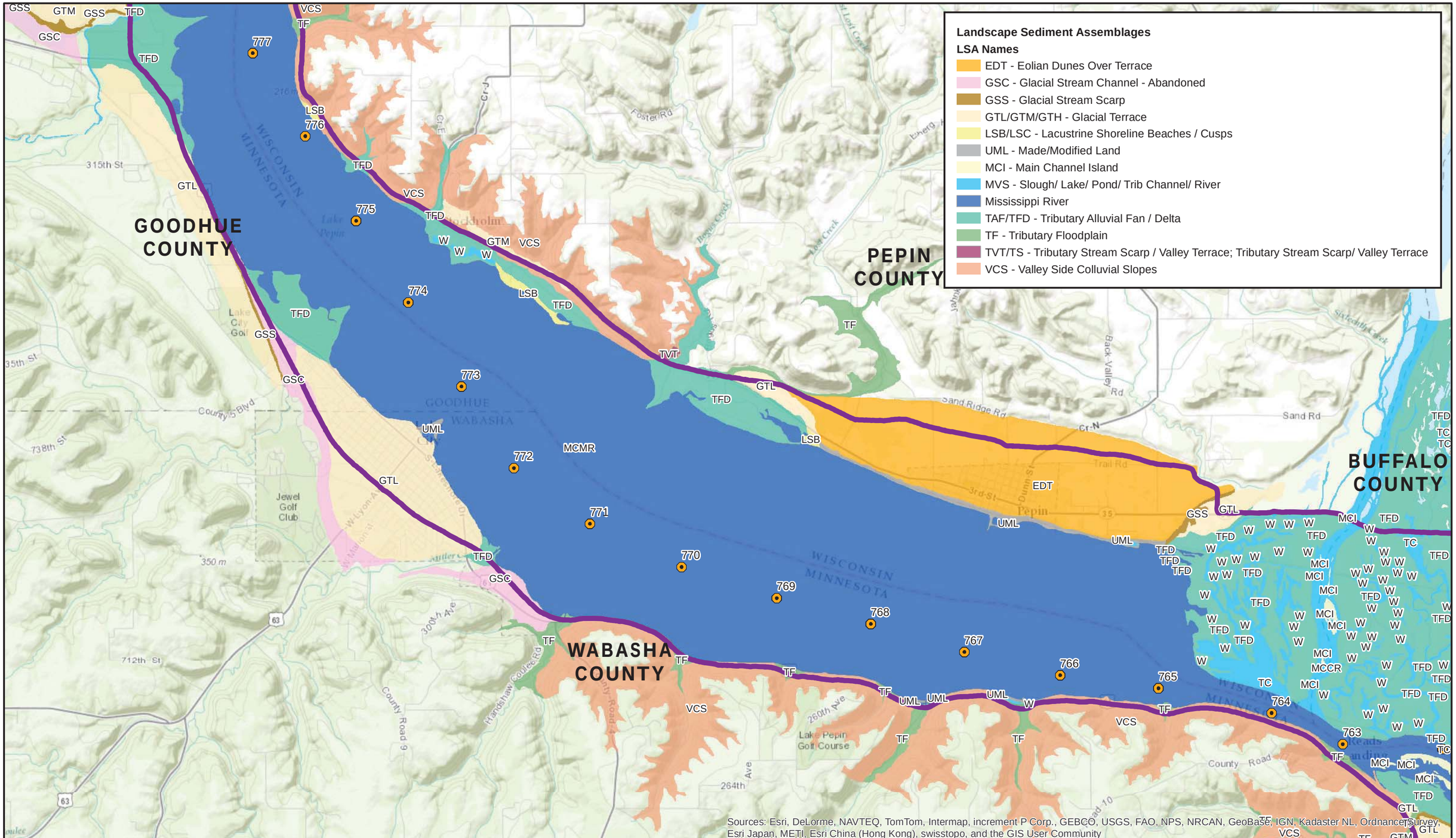

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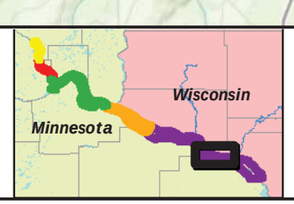

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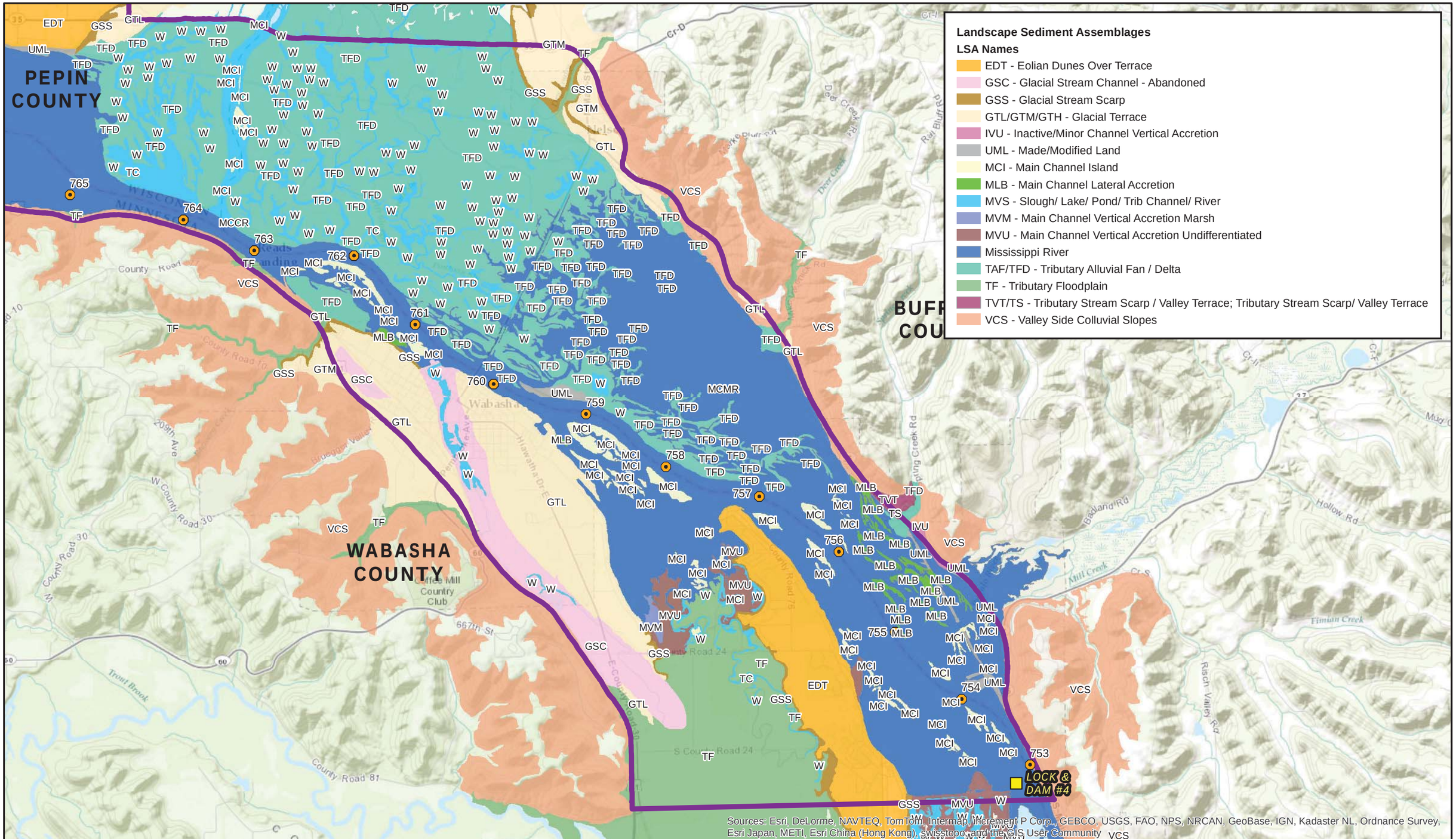

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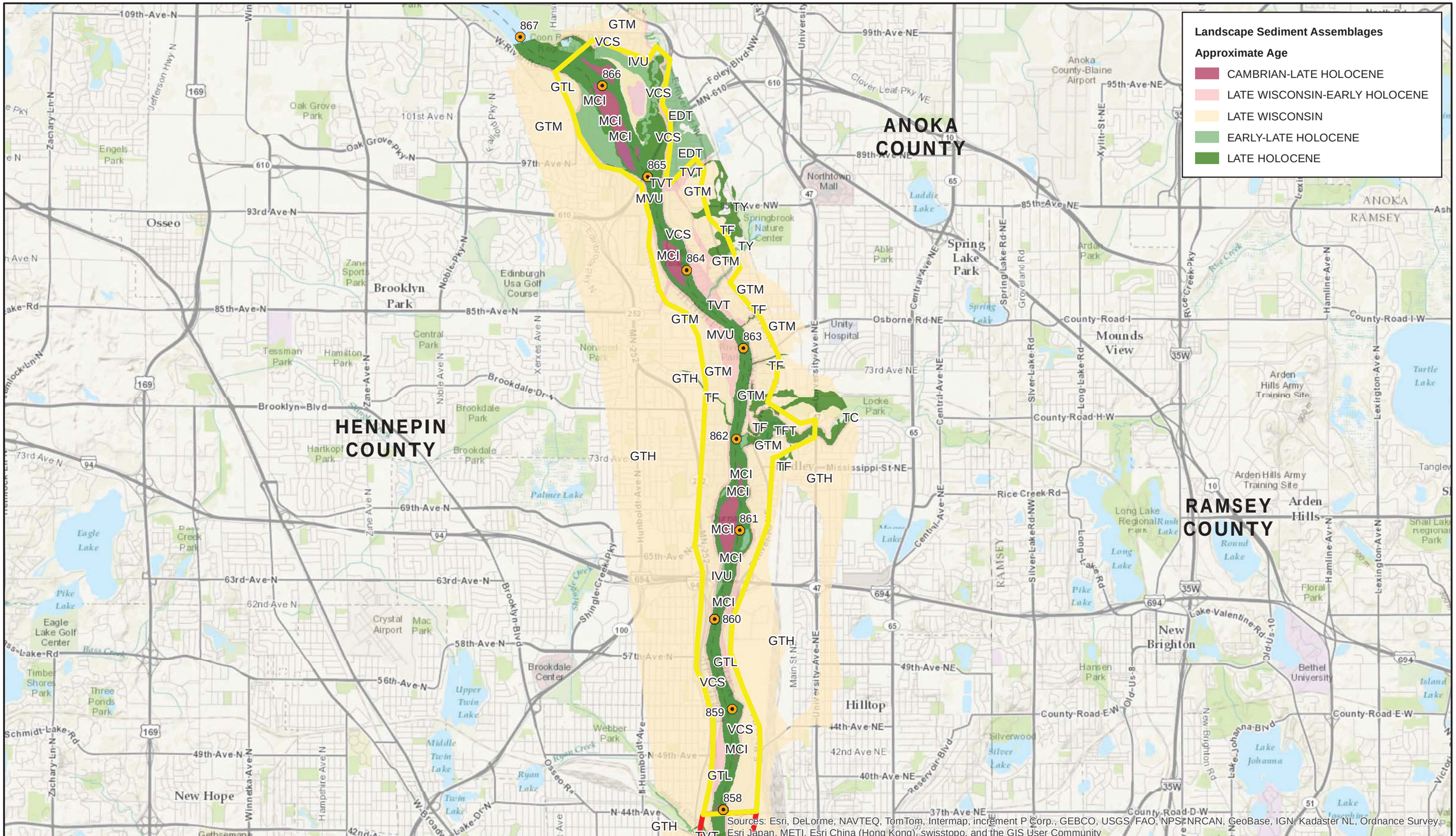

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Map 11x17 Landscape

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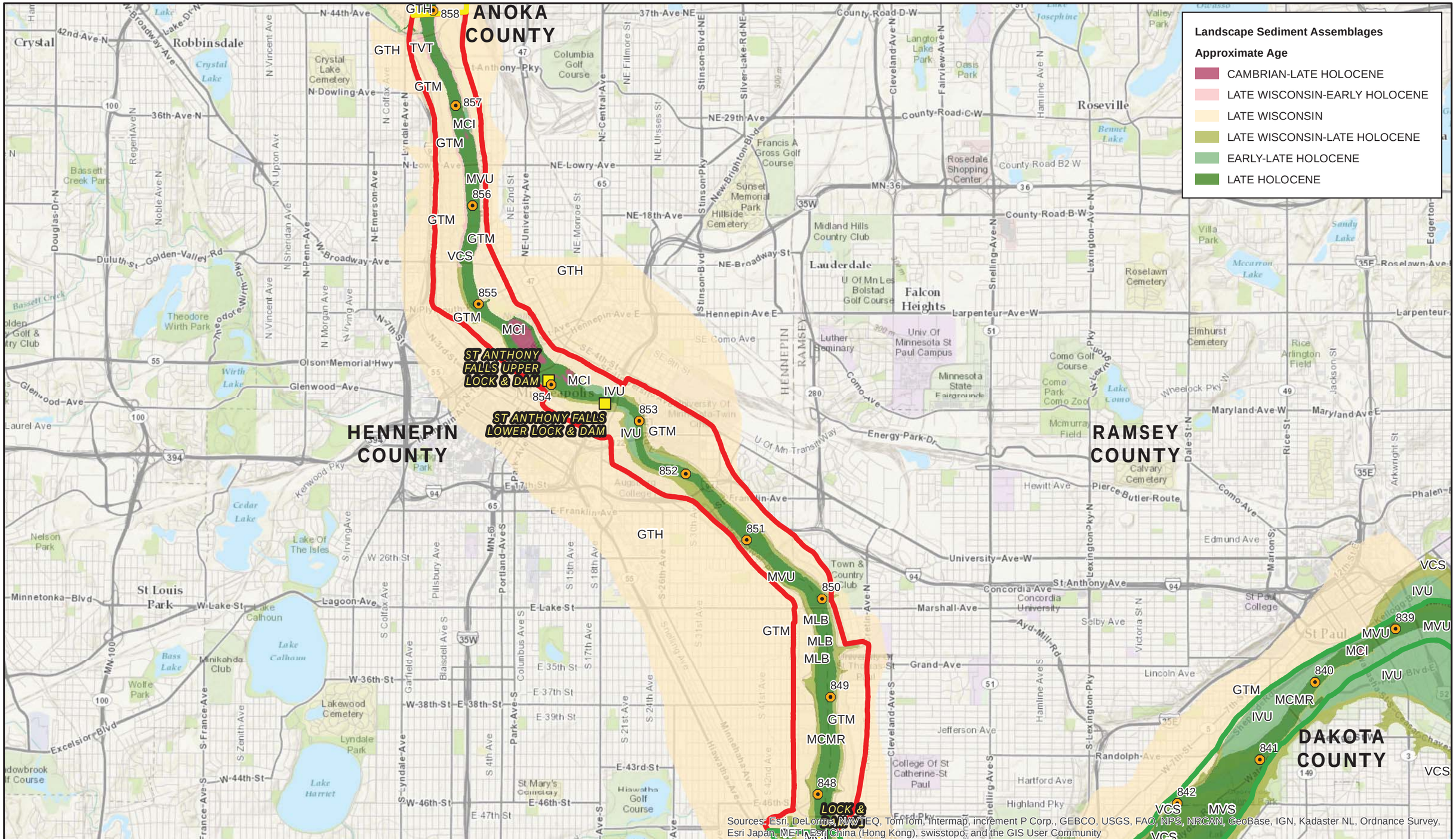
Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_C_LSAs_AGE_11X17L.mxd



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Map 11x17 Landscape

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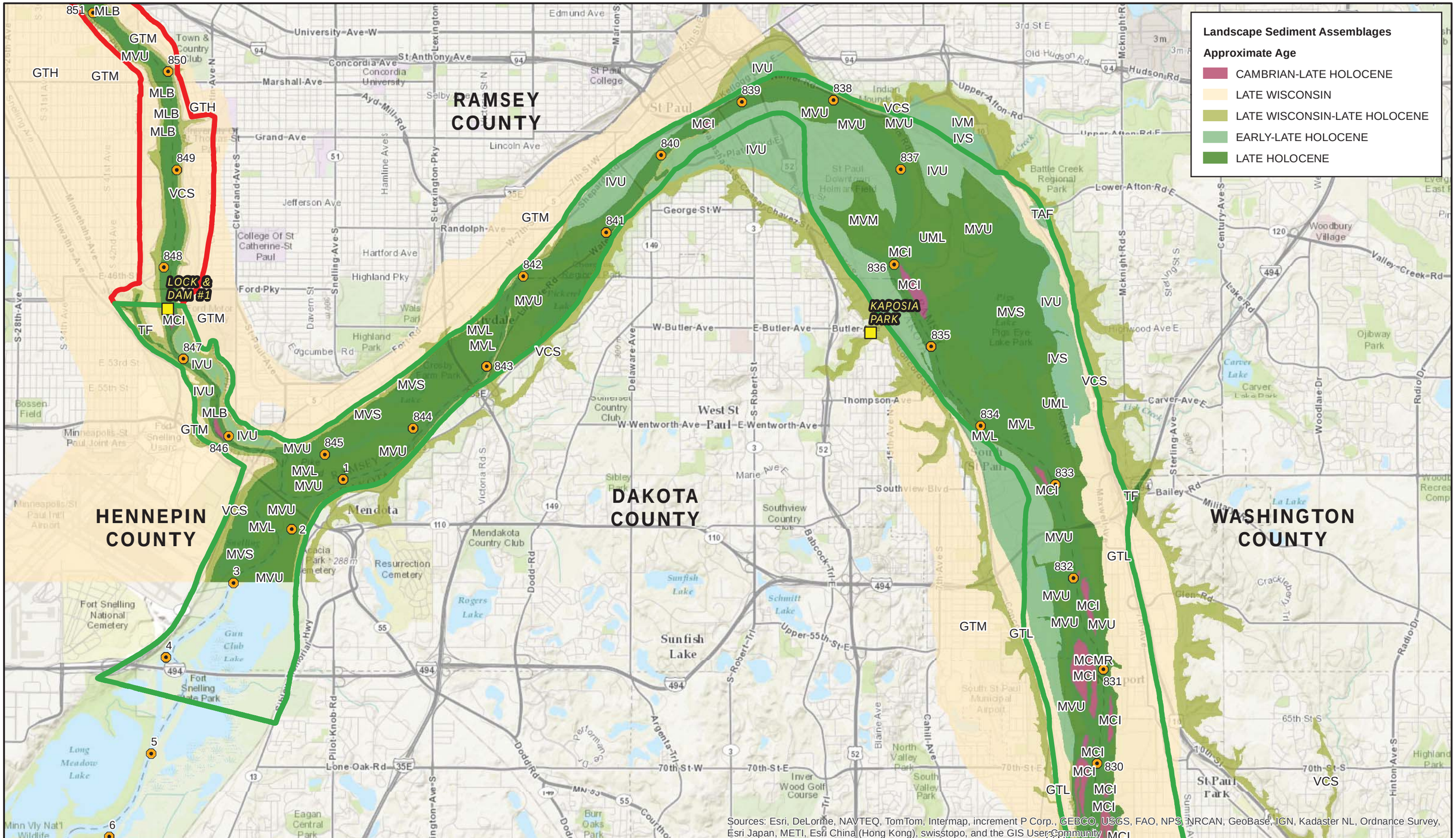

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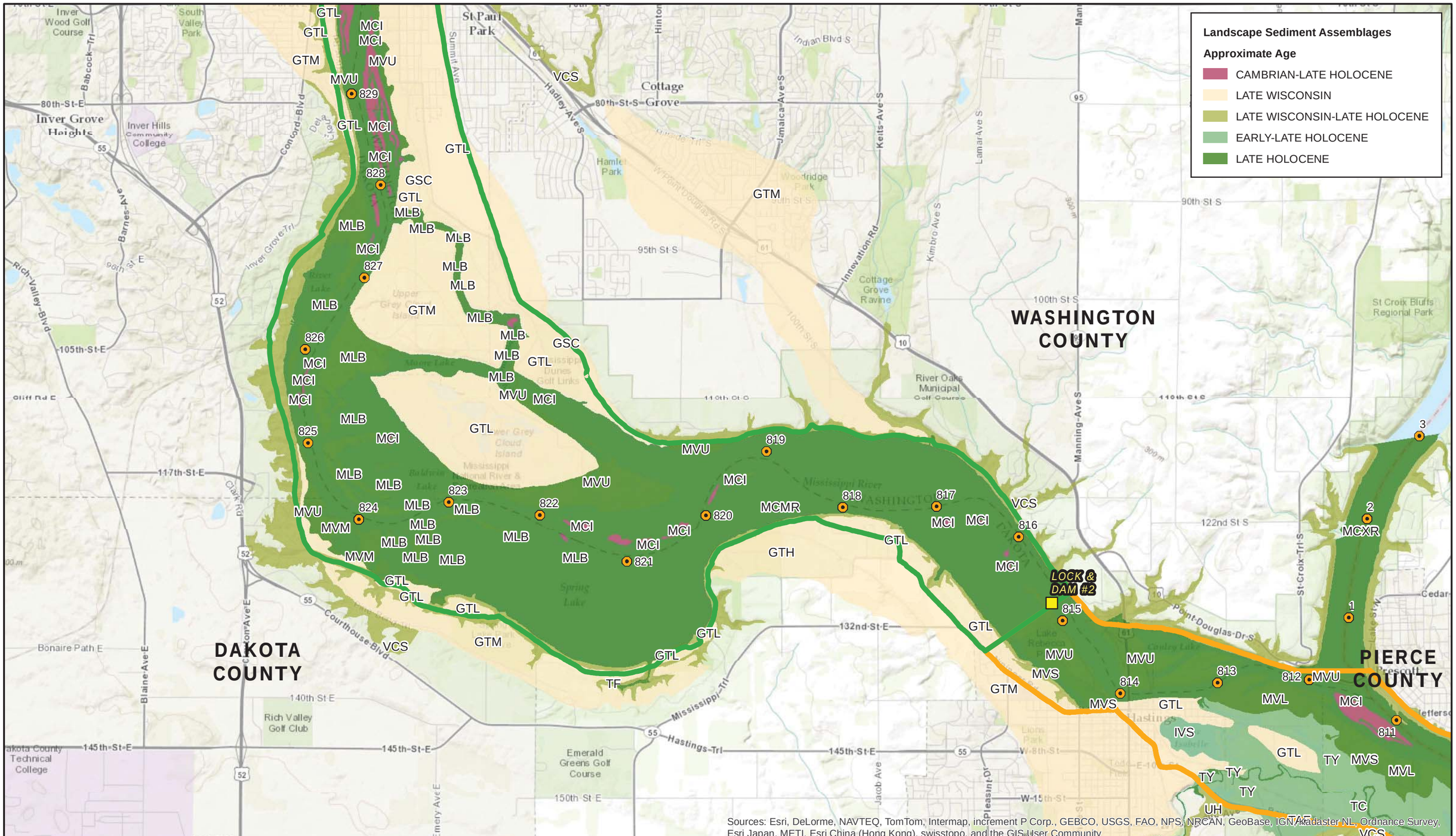

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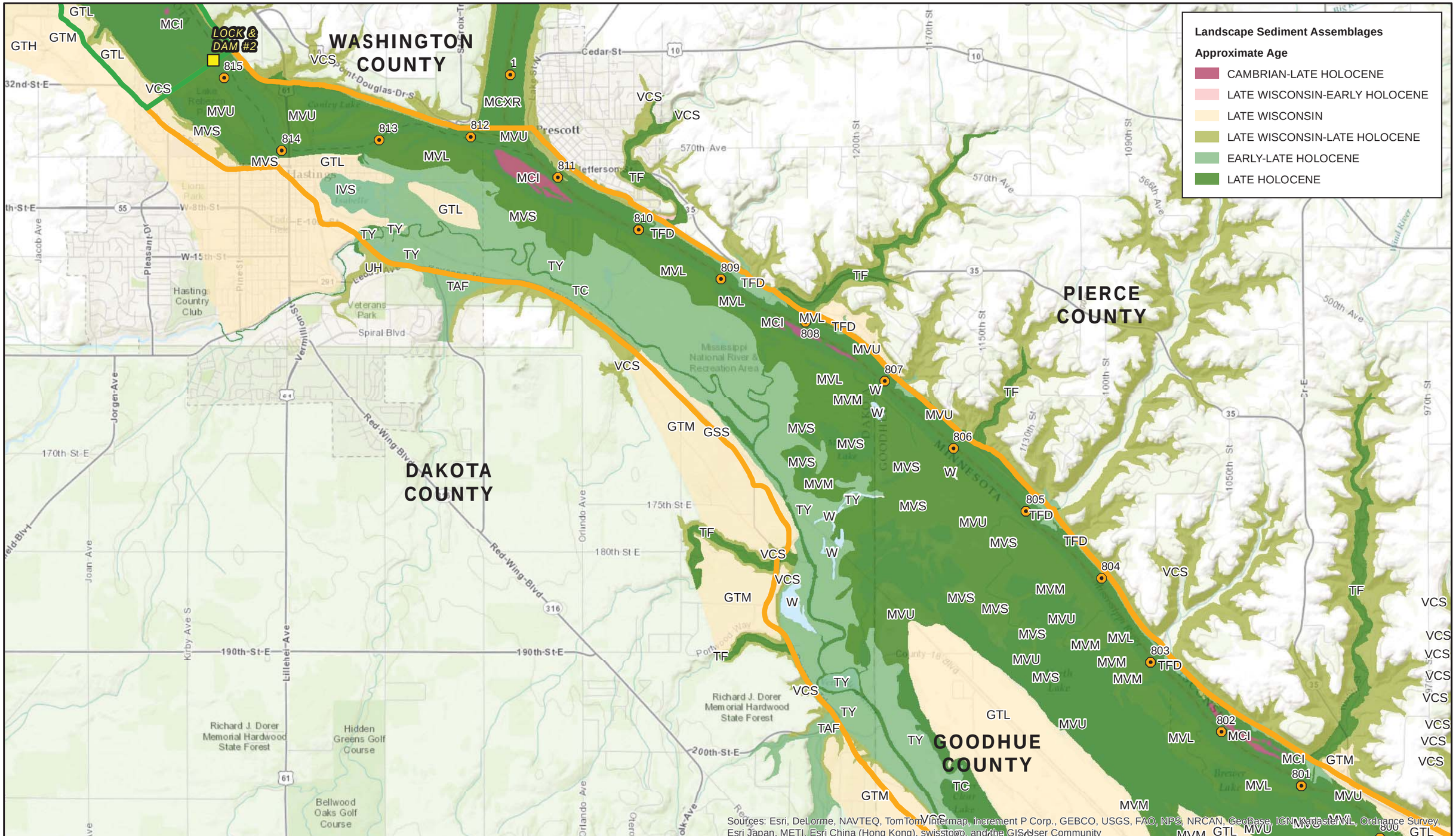

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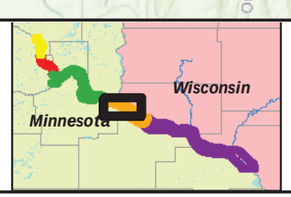

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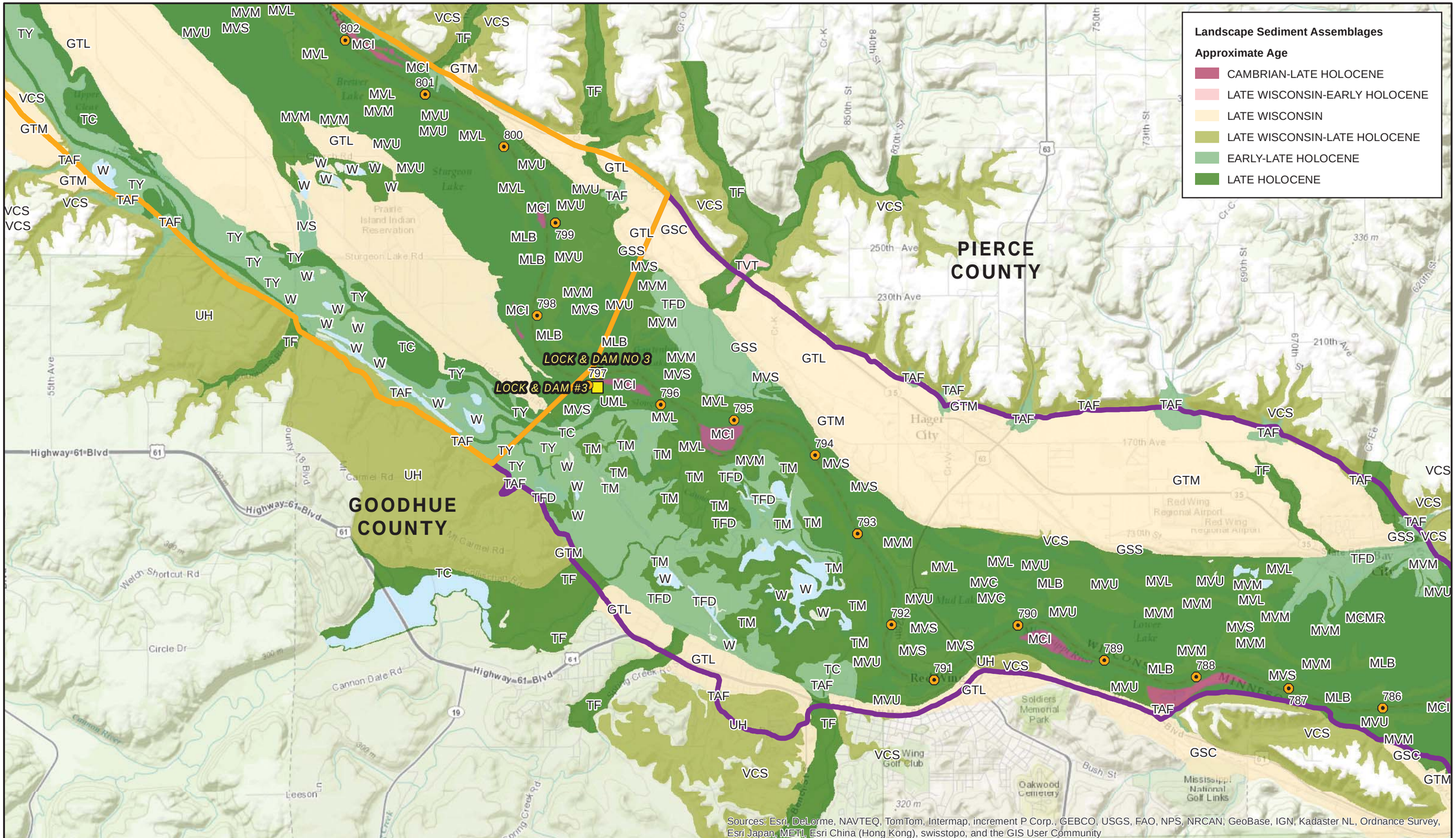
- Dam
- River Mile Marker

Appendix C - Landscape Sediment Assemblage Age Class
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_C_LSAs_AGE_11X17L.mxd



US Army Corps of Engineers

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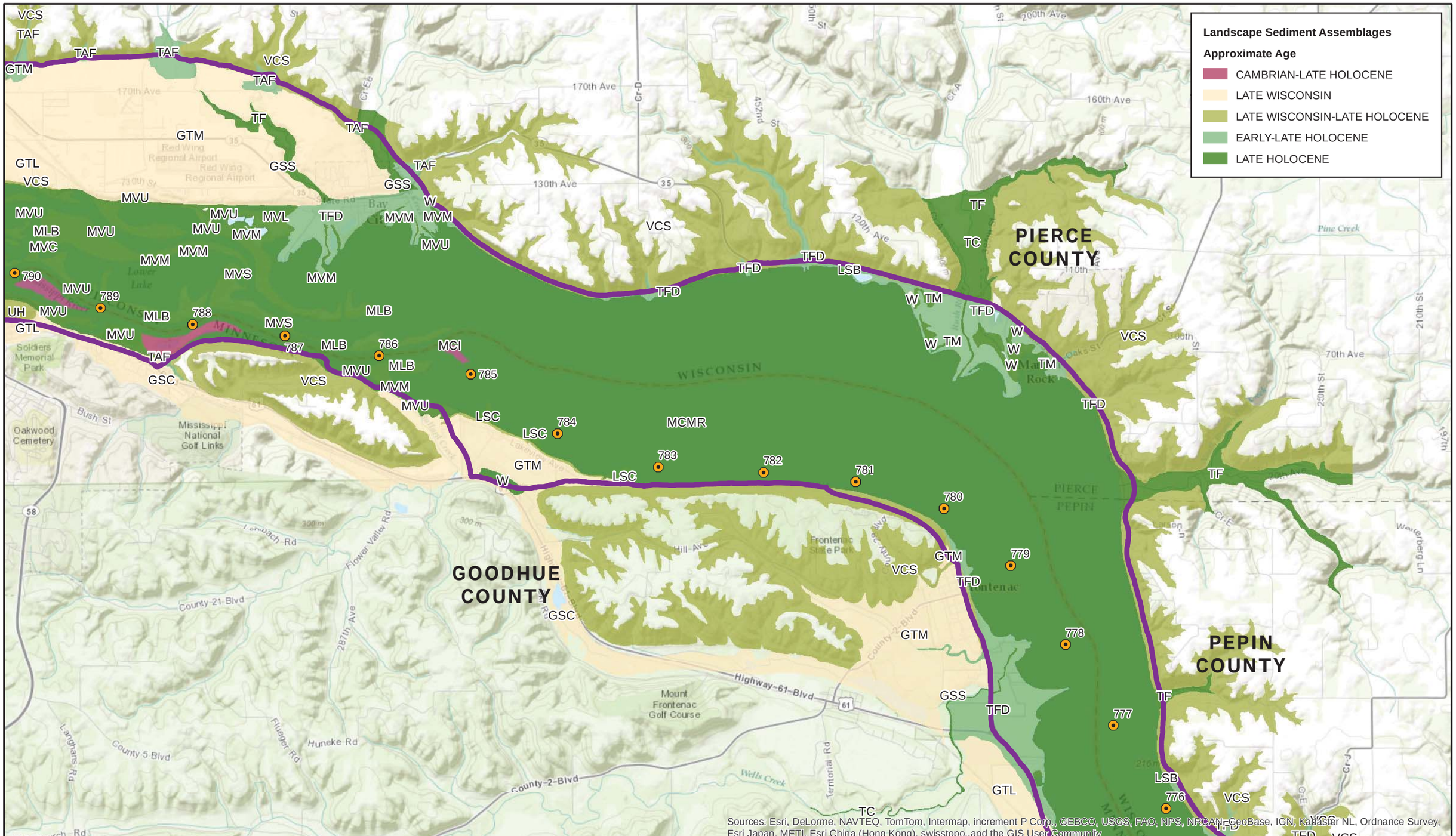
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix C - Landscape Sediment Assemblage Age Class
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_C_LSAs_AGE_11X17L.mxd



US Army Corps of Engineers

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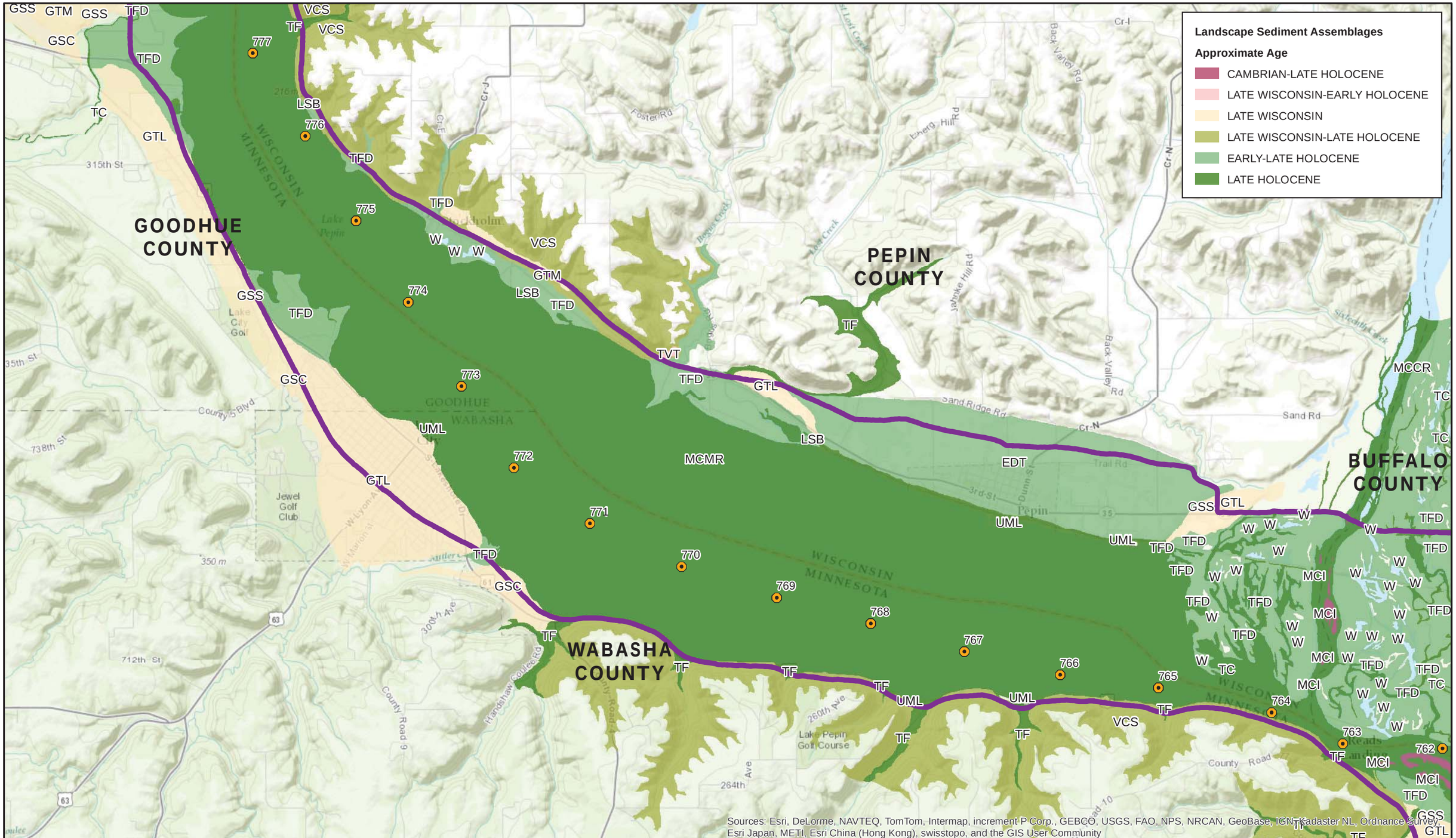
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix C - Landscape Sediment Assemblage Age Class
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_C_LSAs_AGE_11X17L.mxd



US Army Corps of Engineers

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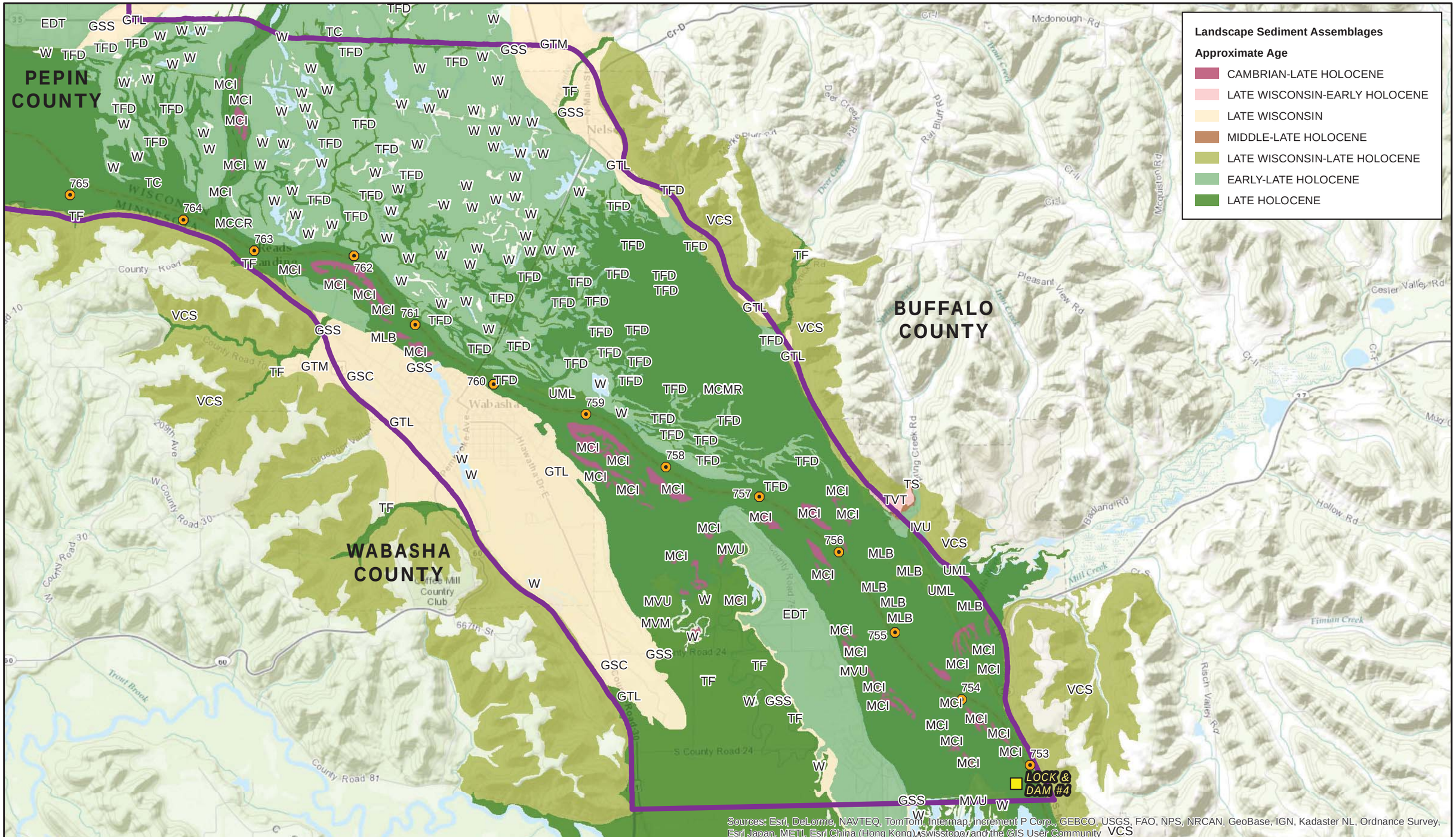
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix C - Landscape Sediment Assemblage Age Class
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_C_LSAs_AGE_11X17L.mxd



US Army Corps of Engineers

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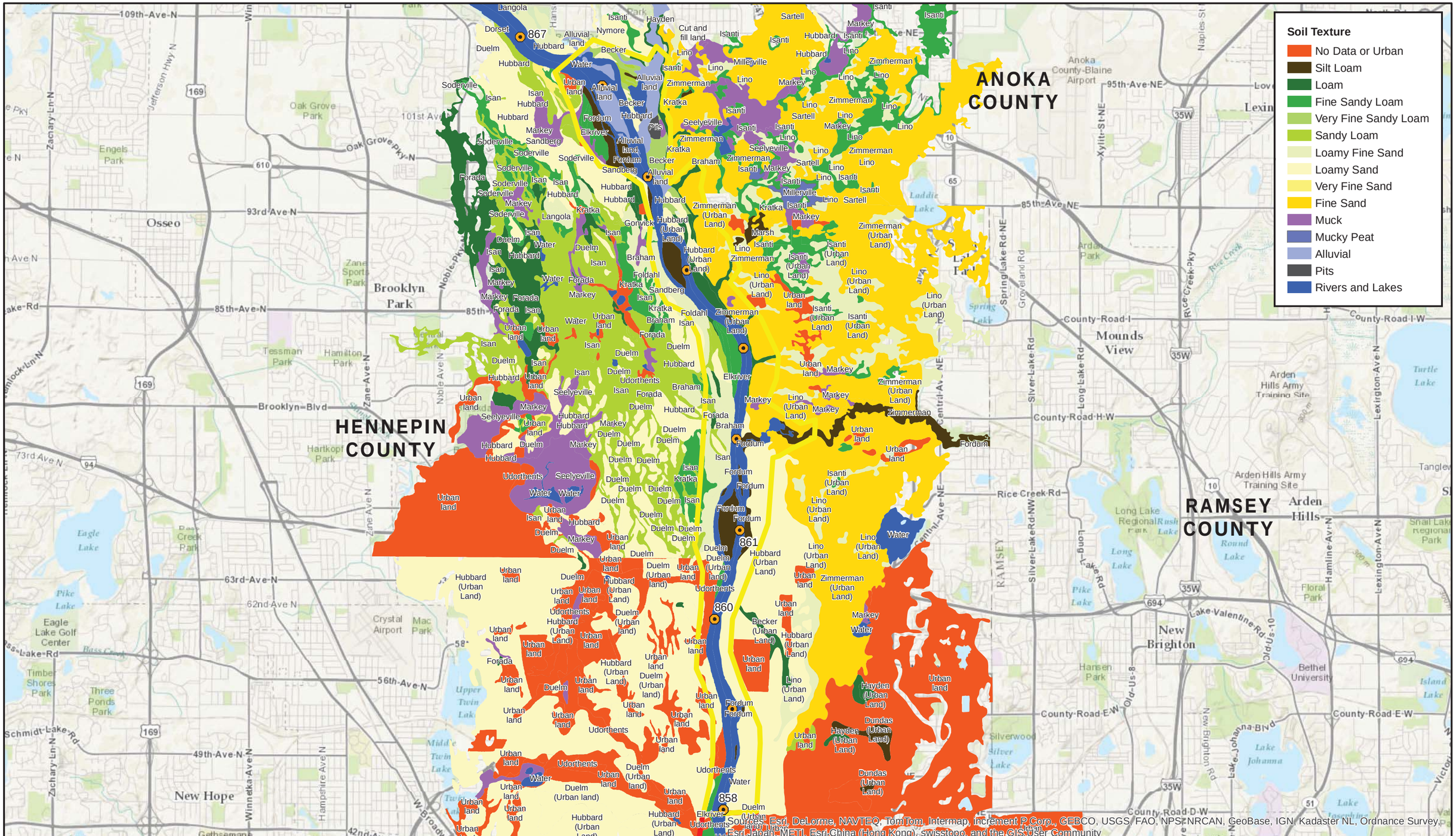
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix C - Landscape Sediment Assemblage Age Class
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_C_LSAs_AGE_11X17L.mxd



US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix D - Soil Texture
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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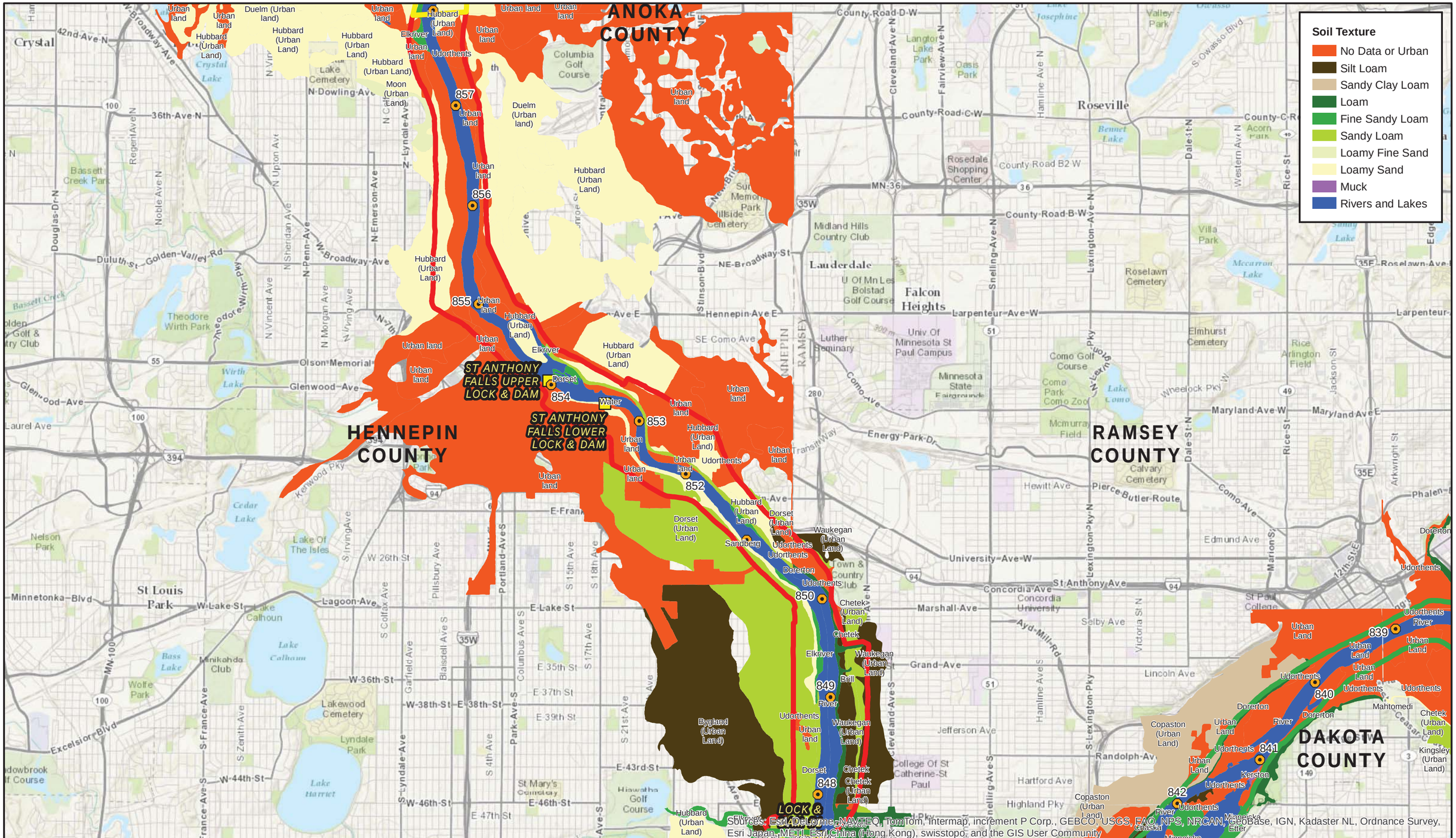

US Army Corps of Engineers

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Map 11x17 Landscape

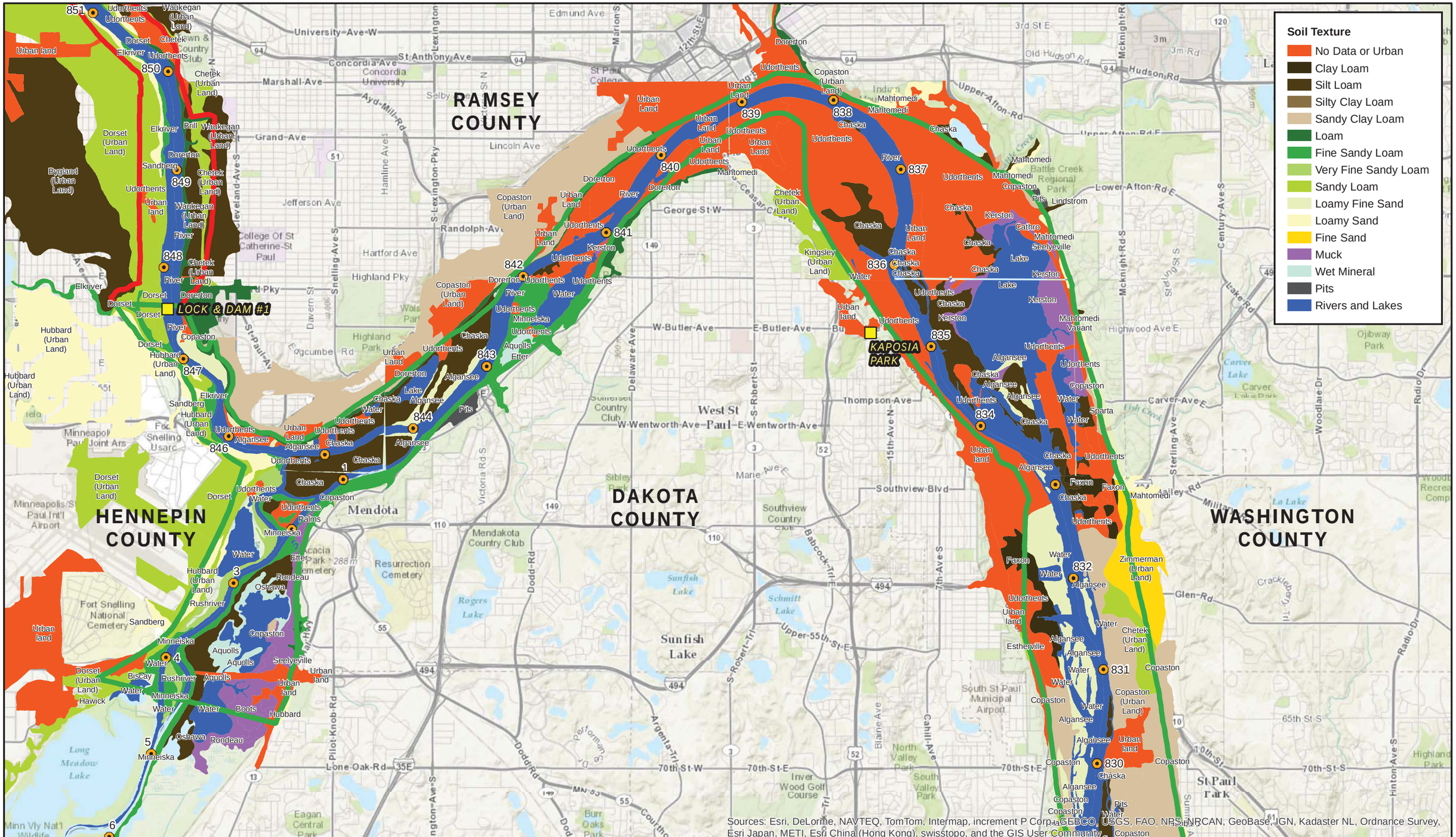
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool

- Dam
- River Mile Marker

Appendix D - Soil Texture
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_D_Soil_Textures_11X17L.mxd



US Army Corps of Engineers

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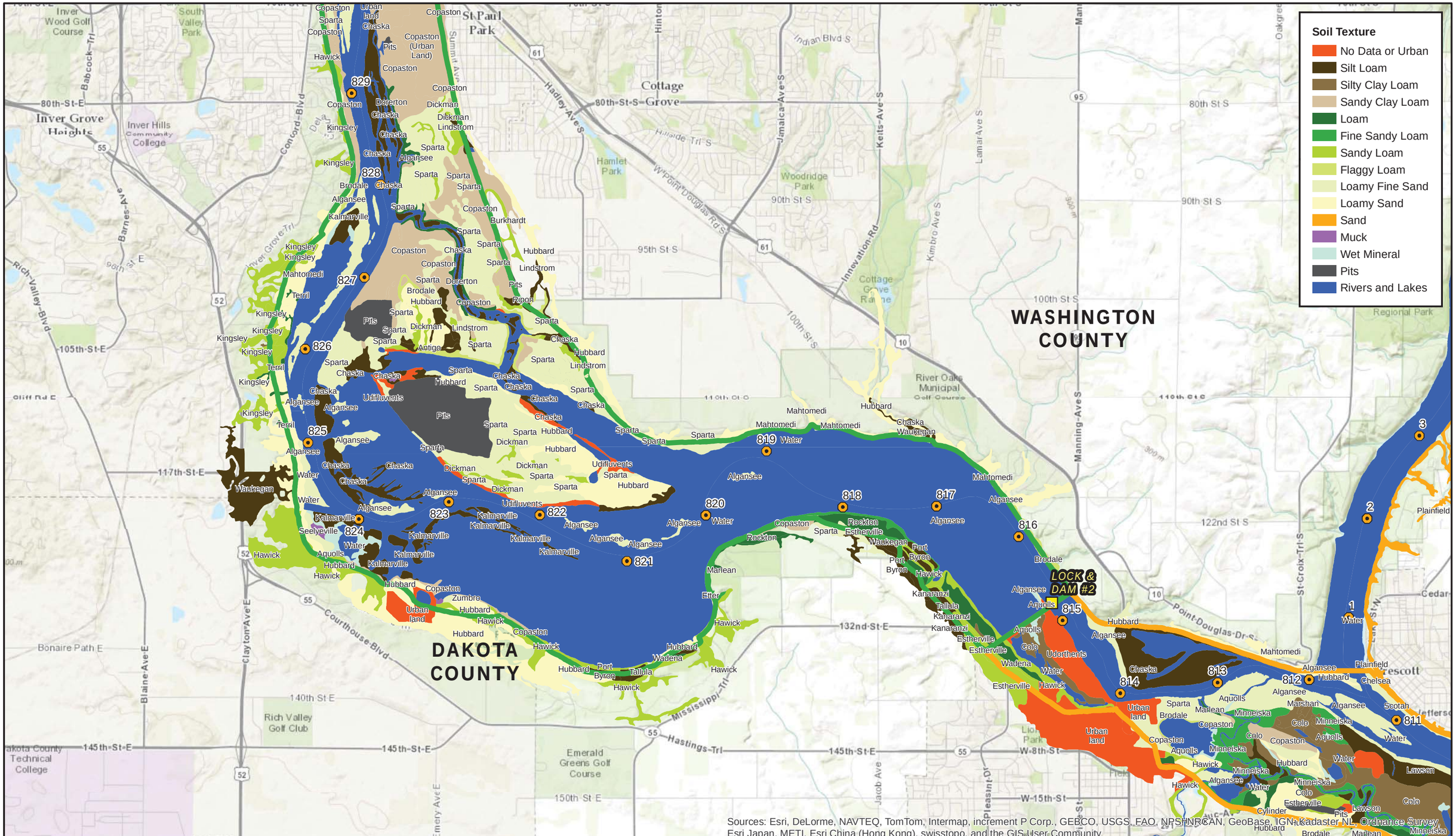
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix D - Soil Texture
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_D_Soil_Textures_11X17L.mxd



US Army Corps of Engineers

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Map 11x17 Landscape

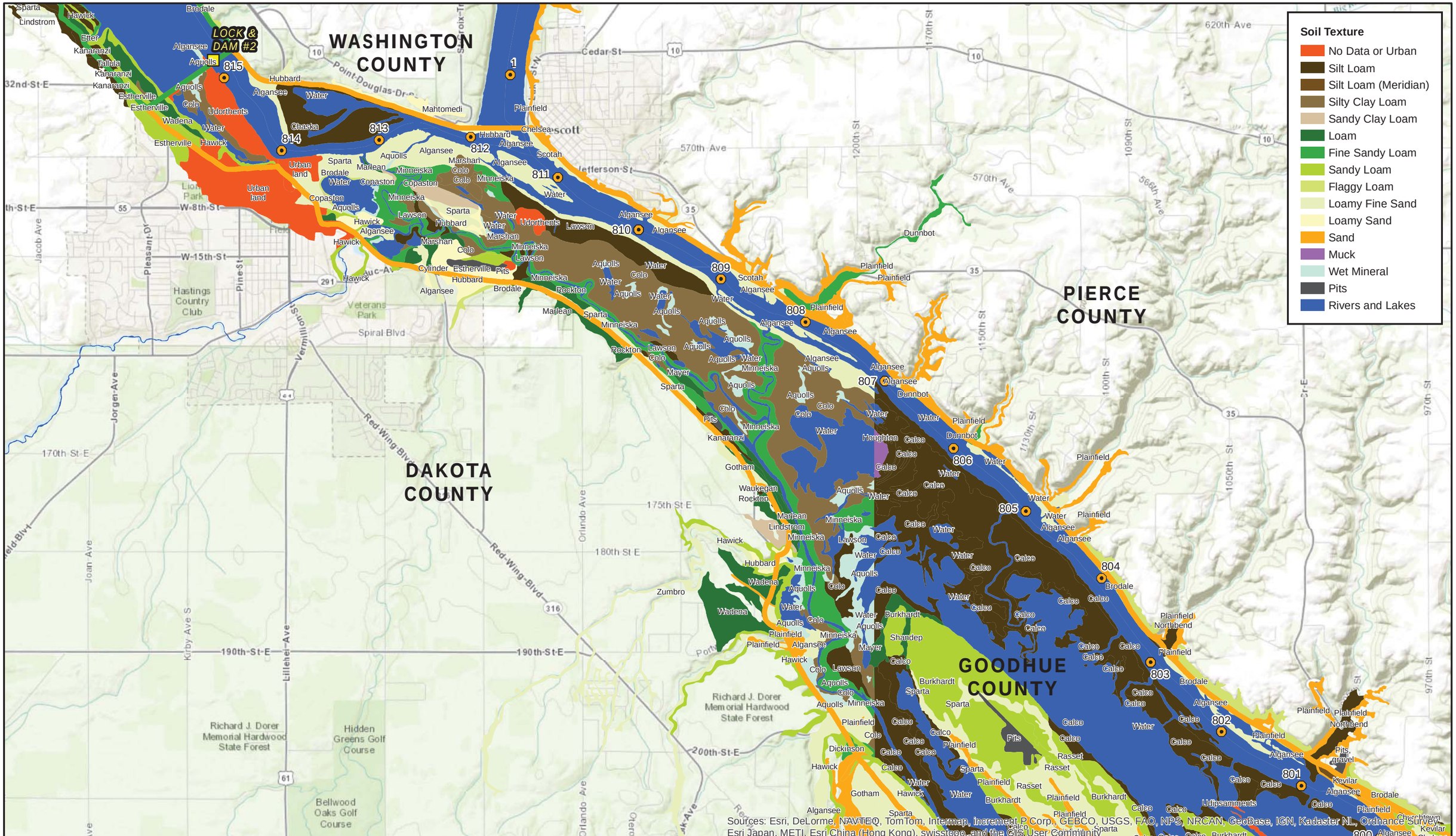
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool

- Dam
- River Mile Marker

Appendix D - Soil Texture
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_D_Soil_Textures_11X17L.mxd



US Army Corps of Engineers

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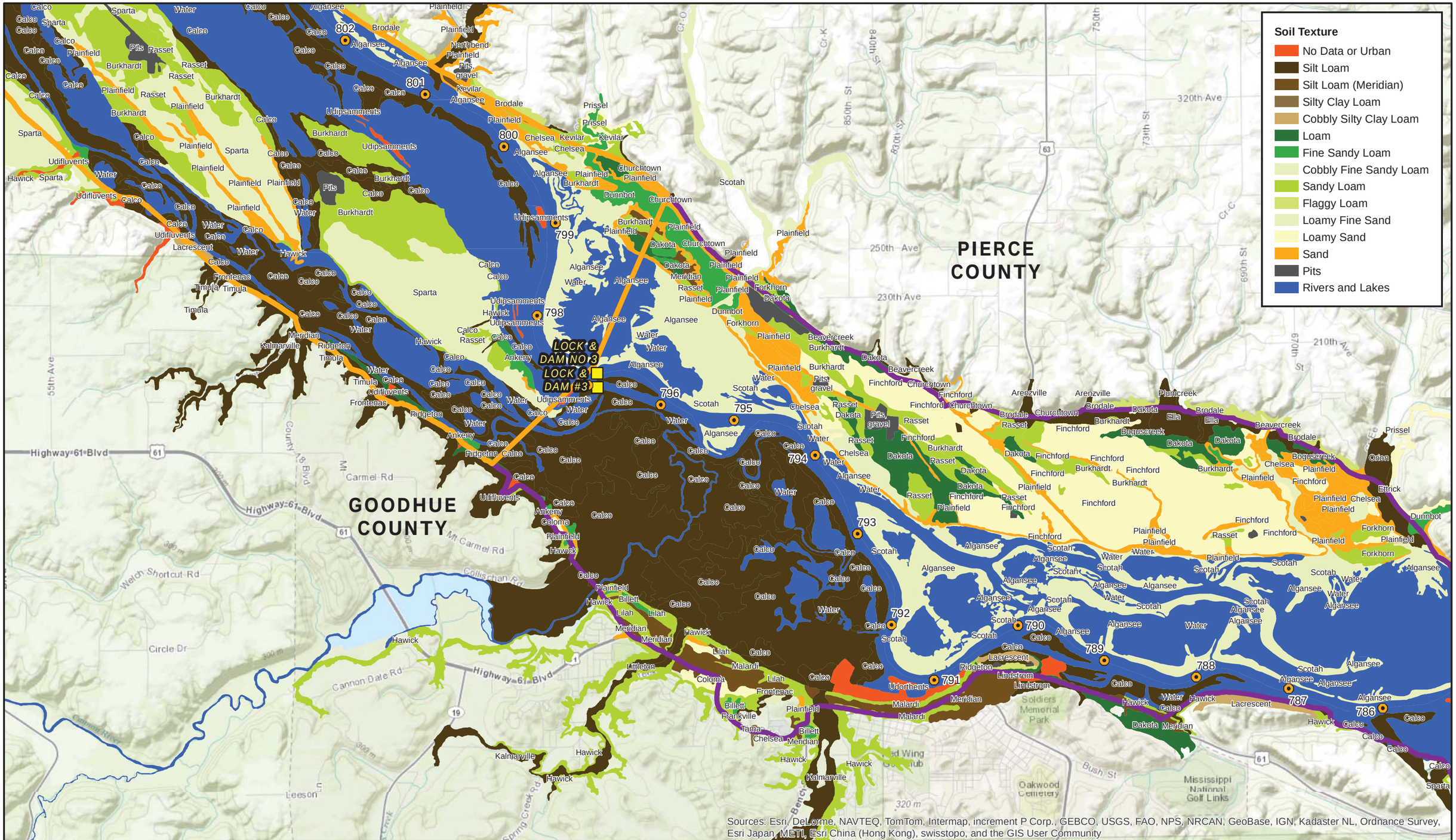
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix D - Soil Texture
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_D_Soil_Textures_11X17L.mxd



US Army Corps of Engineers

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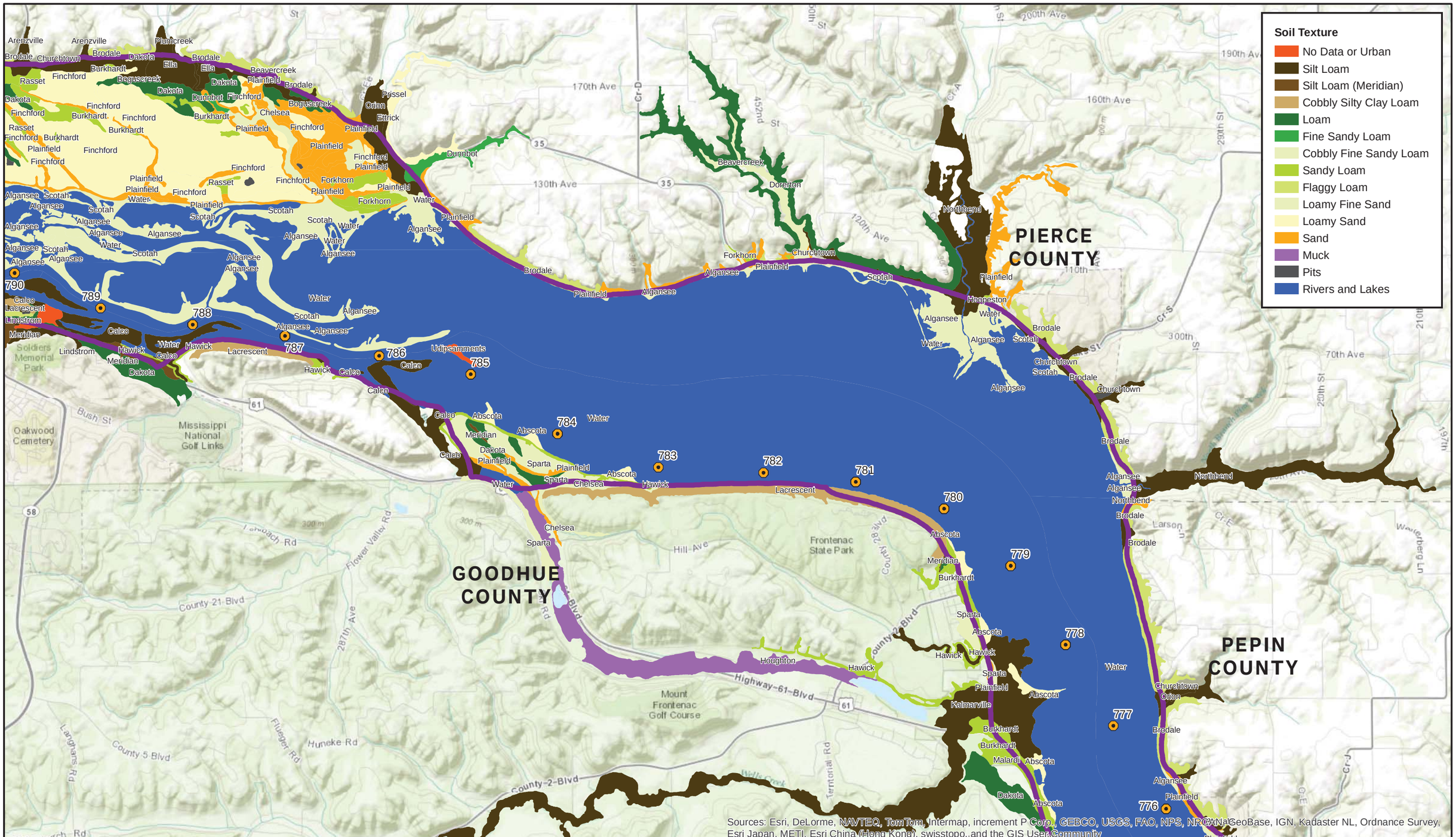
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix D - Soil Texture
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_D_Soil_Textures_11X17L.mxd



US Army Corps of Engineers

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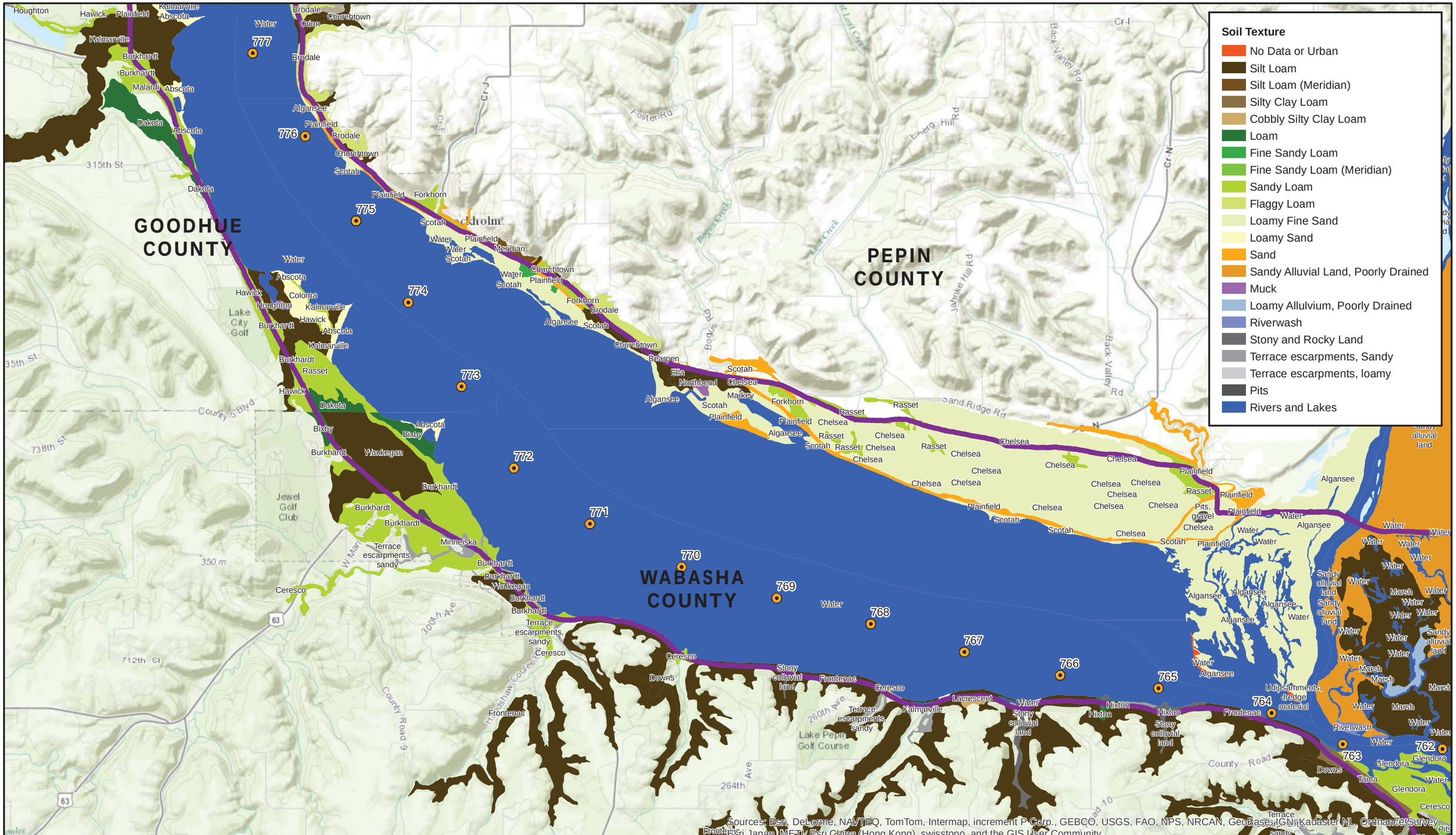
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix D - Soil Texture
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_D_Soil_Textures_11X17L.mxd



US Army Corps of Engineers

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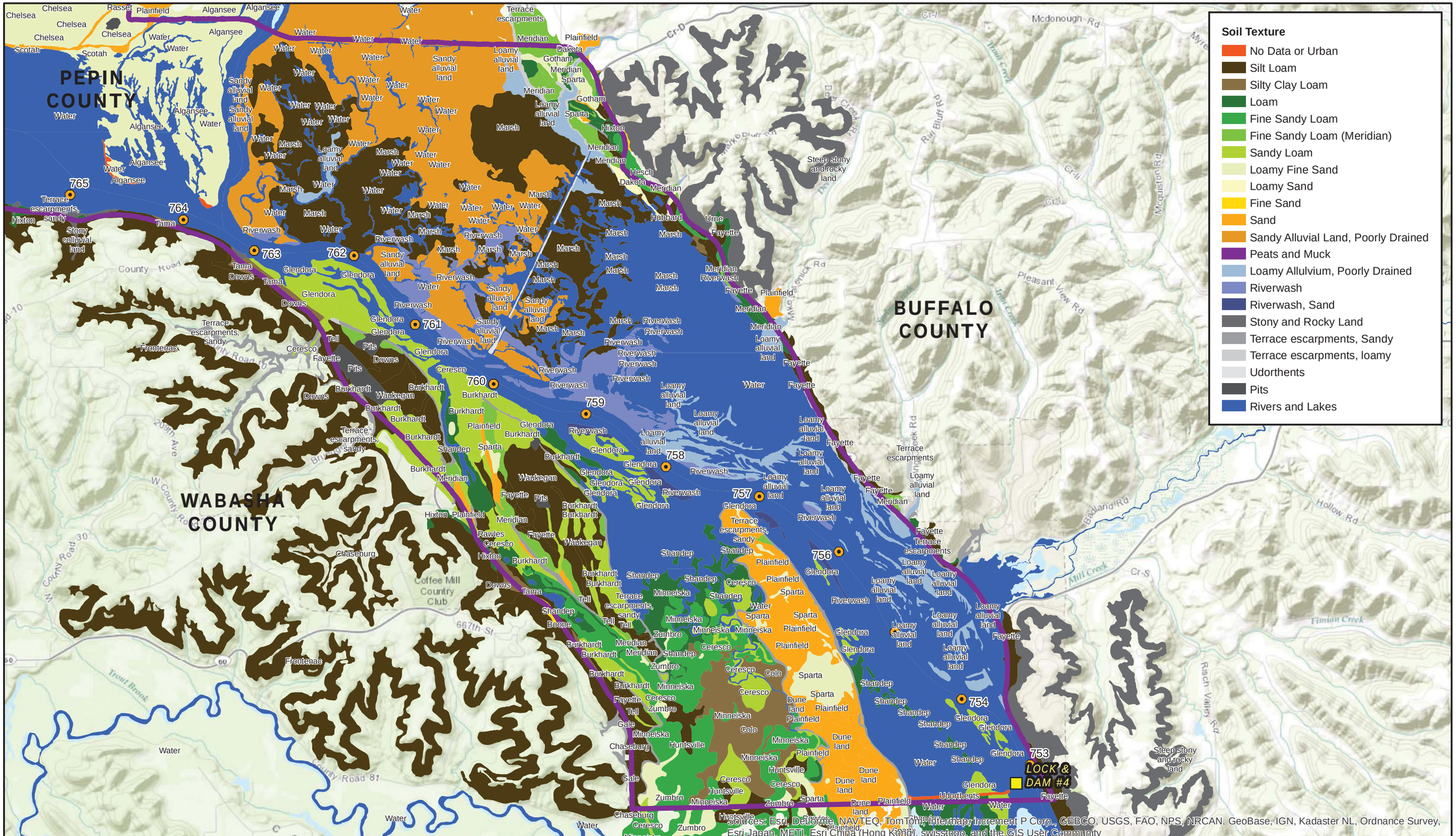
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix D - Soil Texture
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_D_Soil_Textures_11X17L.mxd



US Army Corps of Engineers

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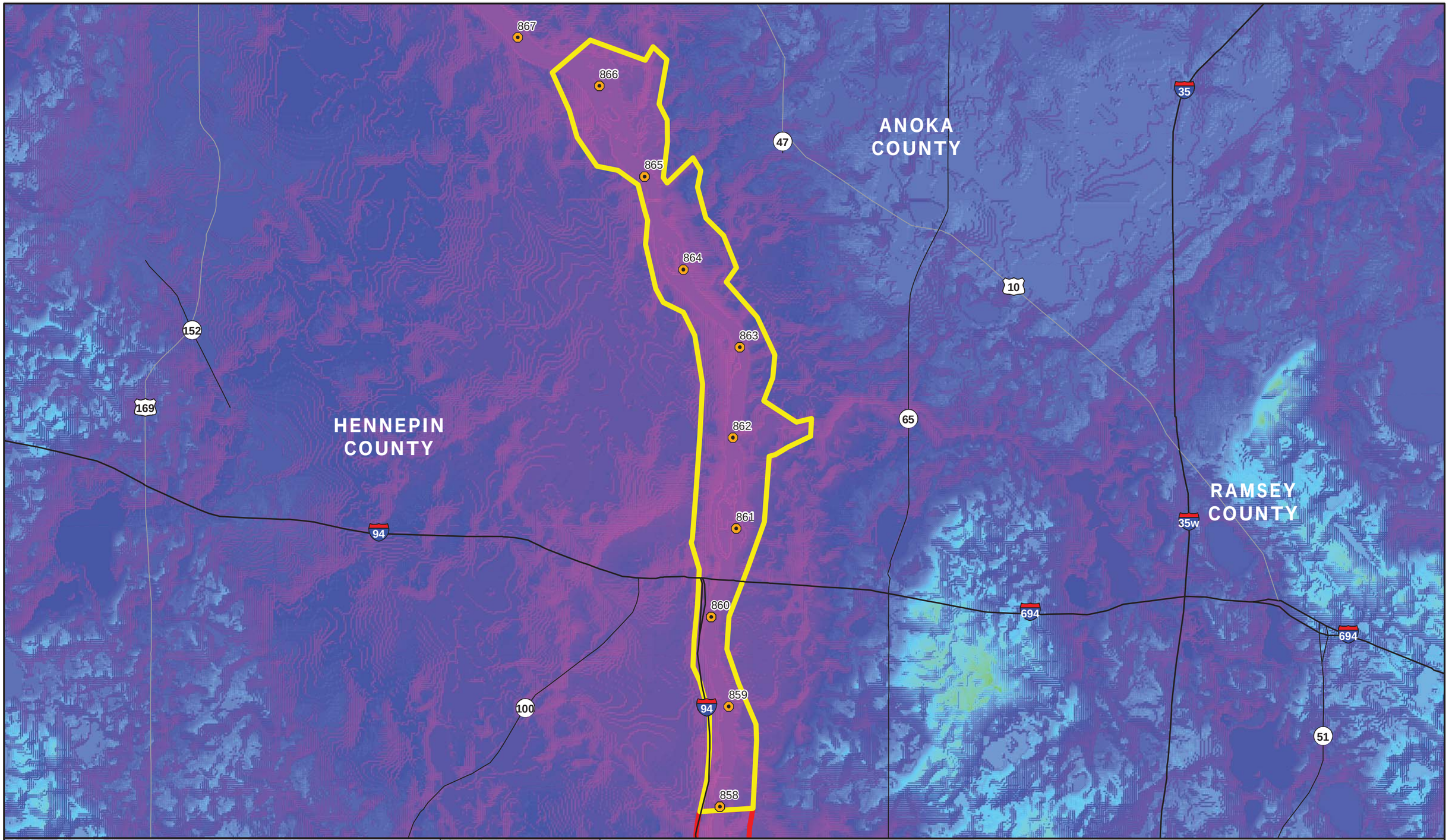
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix D - Soil Texture
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_D_Soil_Textures_11X17L.mxd



US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd

ANOKA COUNTY

HENNEPIN COUNTY

RAMSEY COUNTY

DAKOTA COUNTY

ST ANTHONY FALLS UPPER LOCK & DAM

ST ANTHONY FALLS LOWER LOCK & DAM

LOCK & DAM #1

858 857 856 855 854 853 852 851 850 849 848 839 840 841 842

278 65 94 52 55 394 100 35w 36 51 280 10 694 35e 61 2 5

US Army Corps of Engineers

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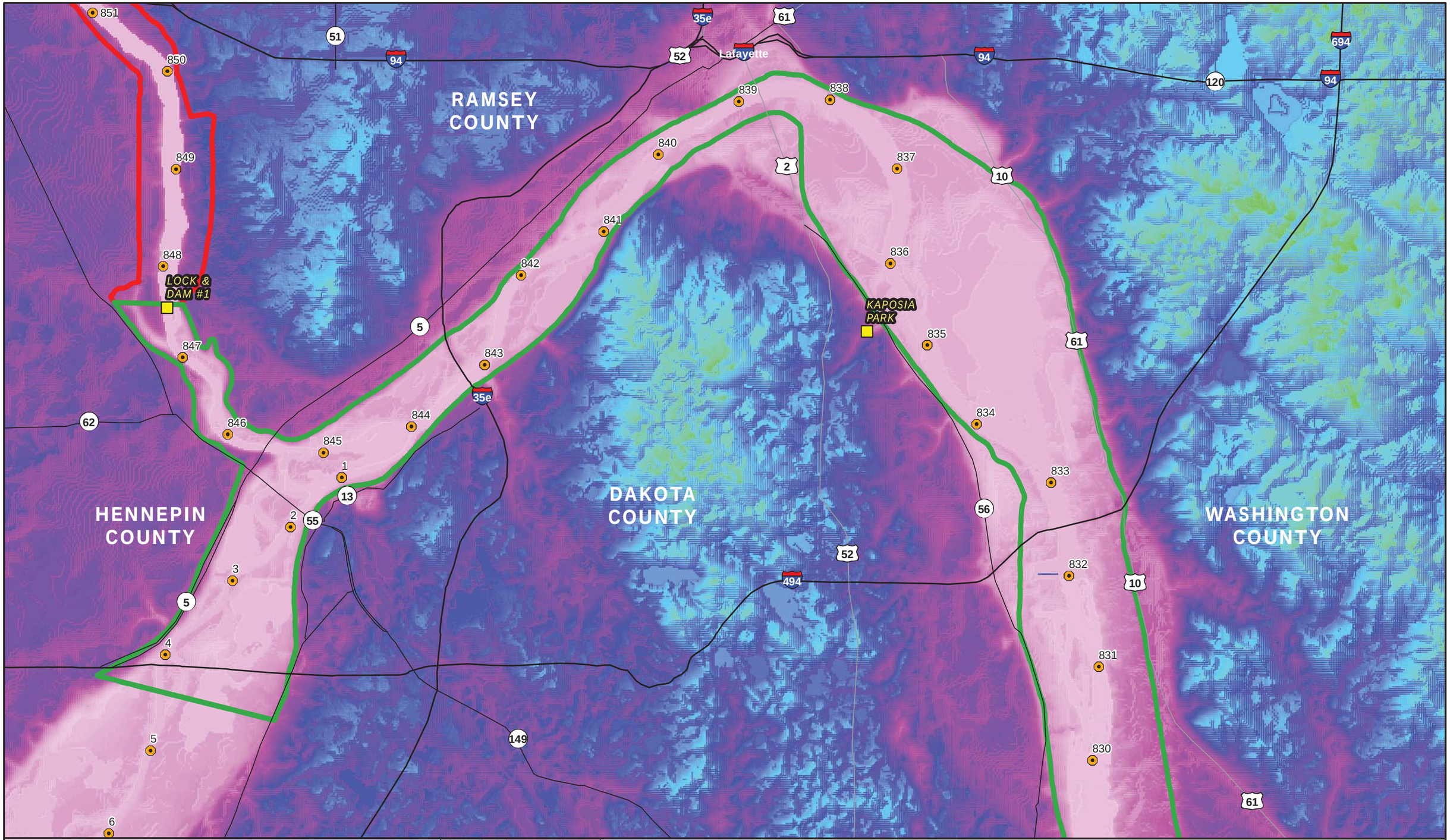
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd



US Army Corps of Engineers

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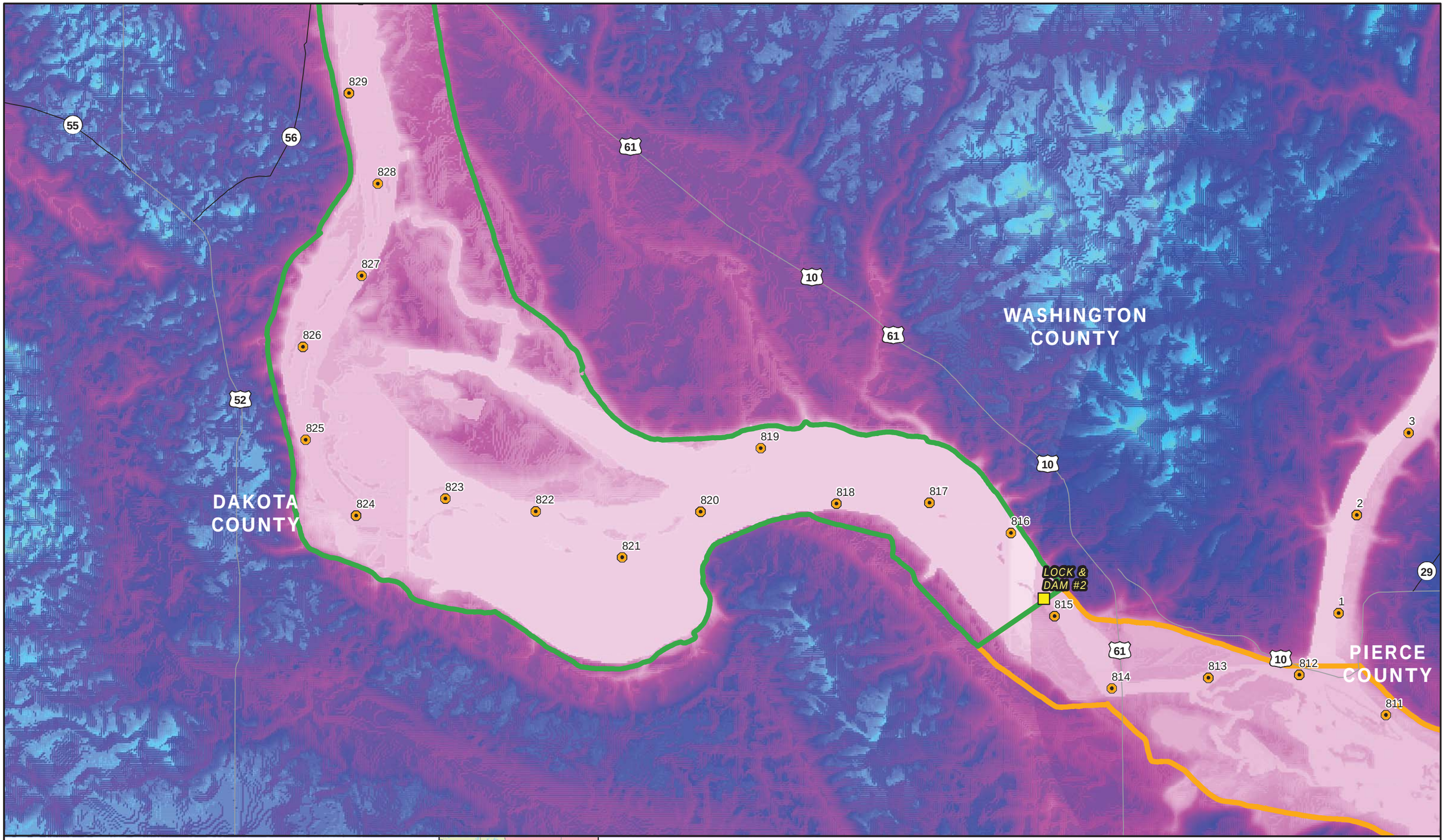
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd



US Army Corps of Engineers

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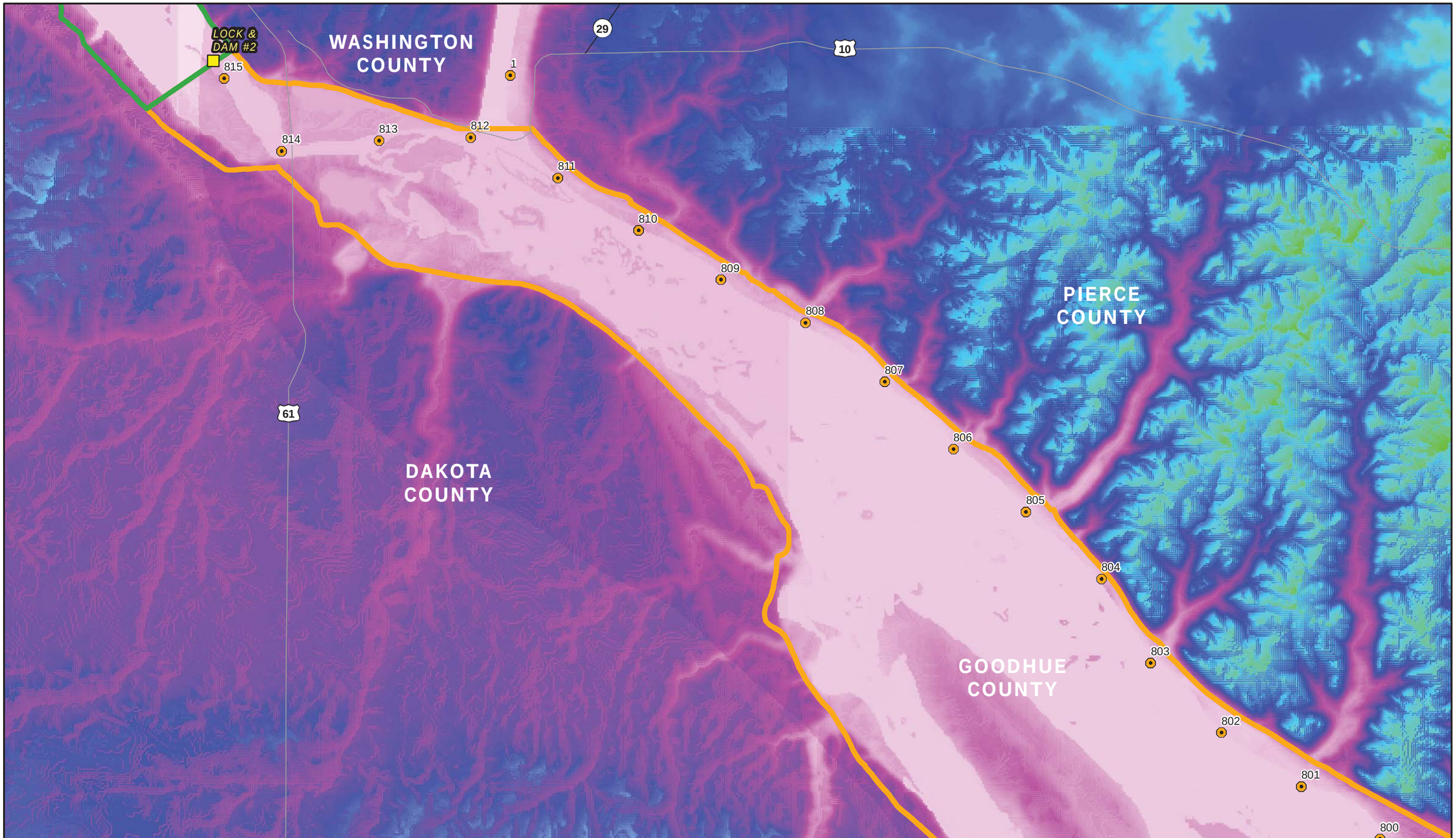
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd



US Army Corps of Engineers

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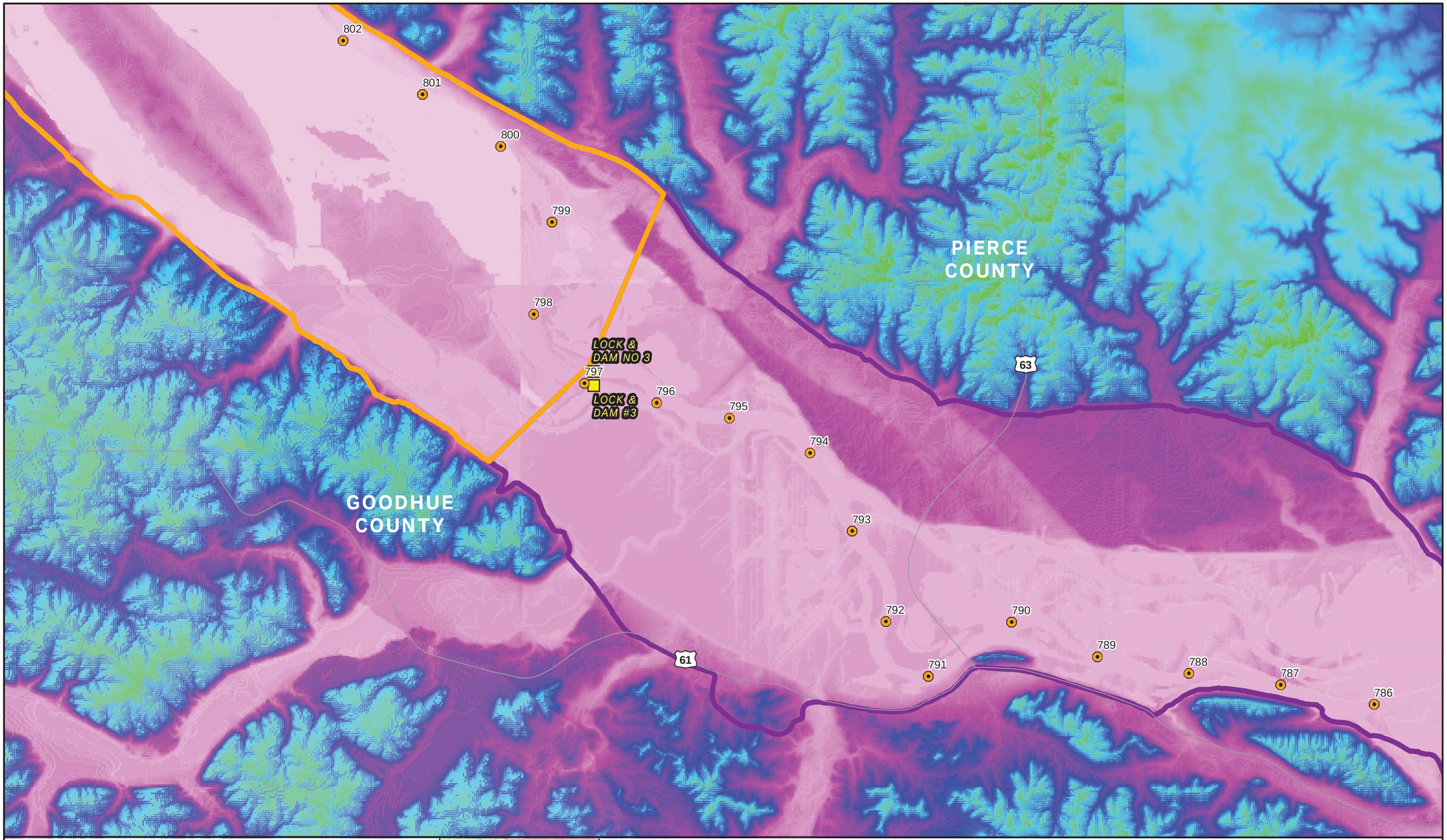
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd



US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd

US Army Corps of Engineers

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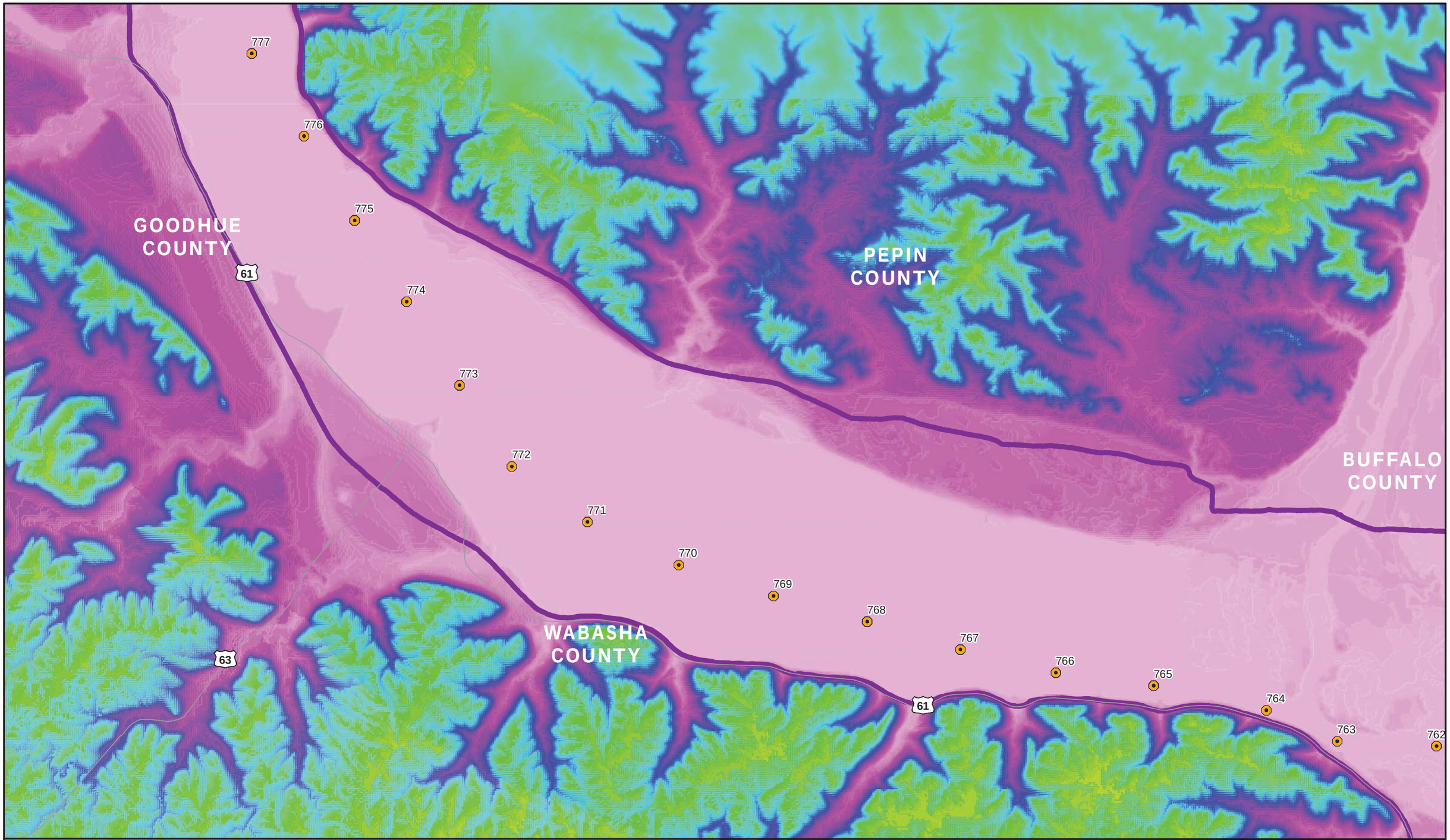
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd



US Army Corps of Engineers

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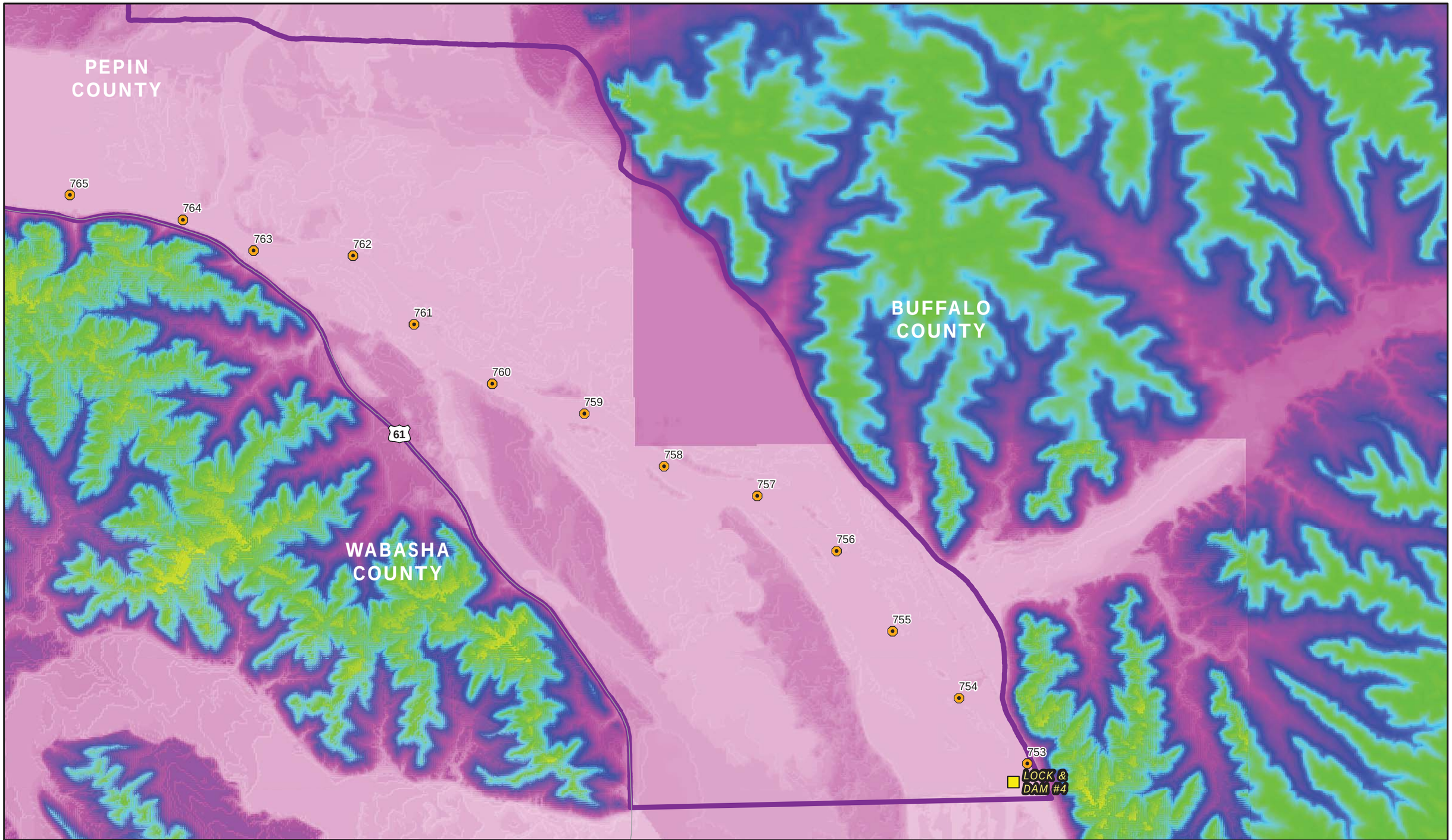
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd



US Army Corps of Engineers

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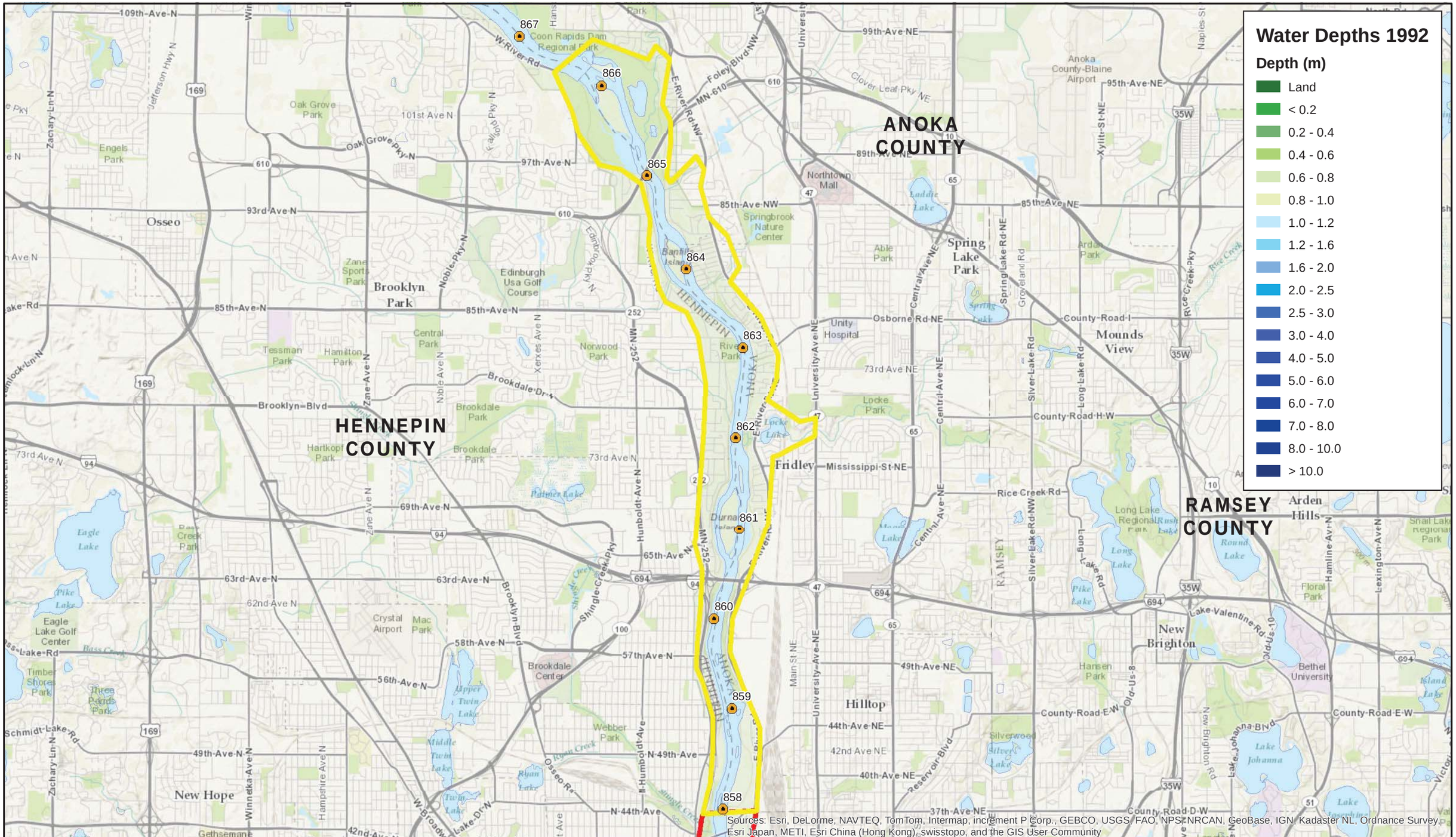
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix E - Digital Elevation Model (DEM)
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_E_DEM_11X17L.mxd



US Army Corps of Engineers

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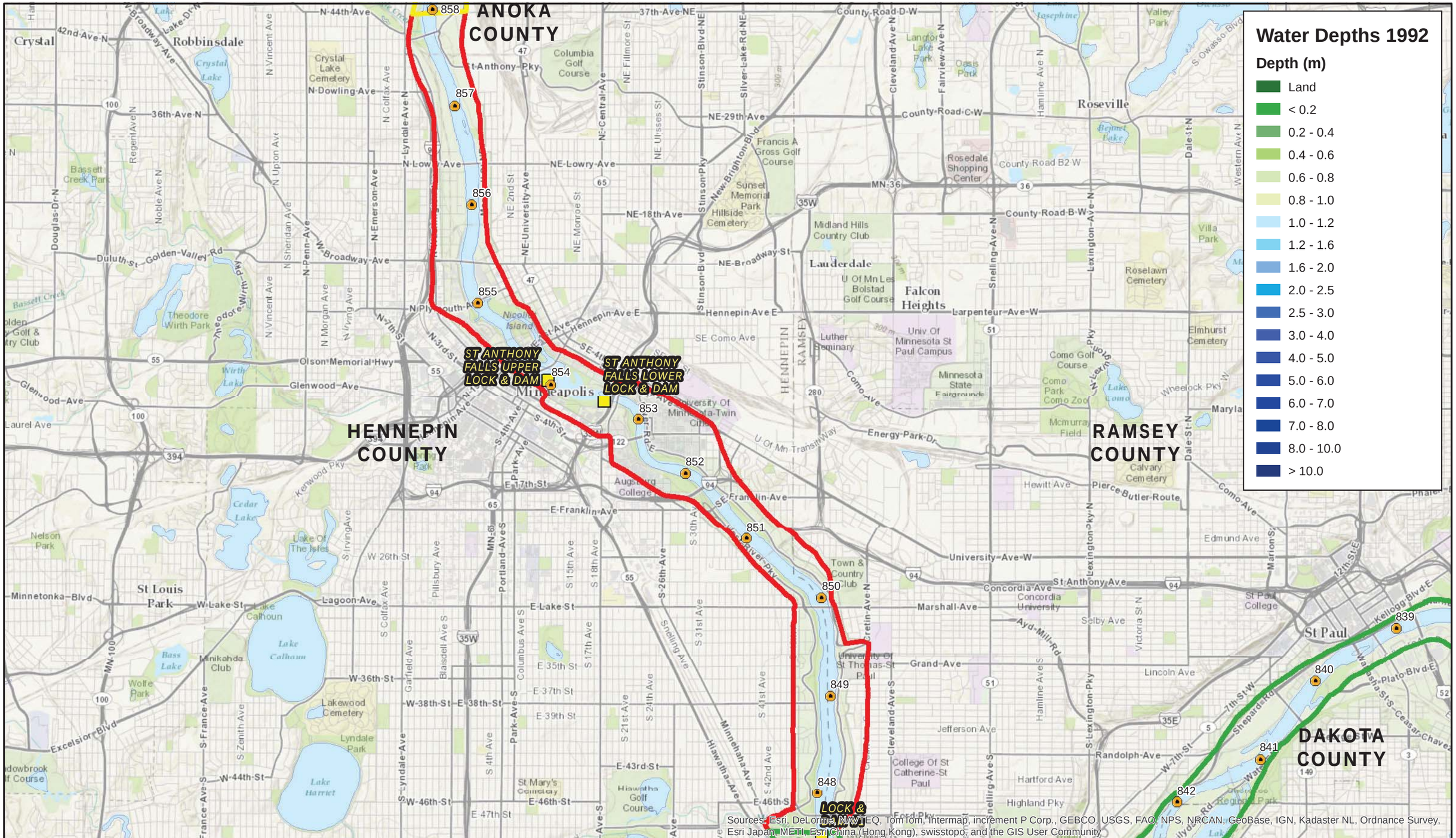
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_F_Bathymetry_11X17L.mxd



US Army Corps of Engineers

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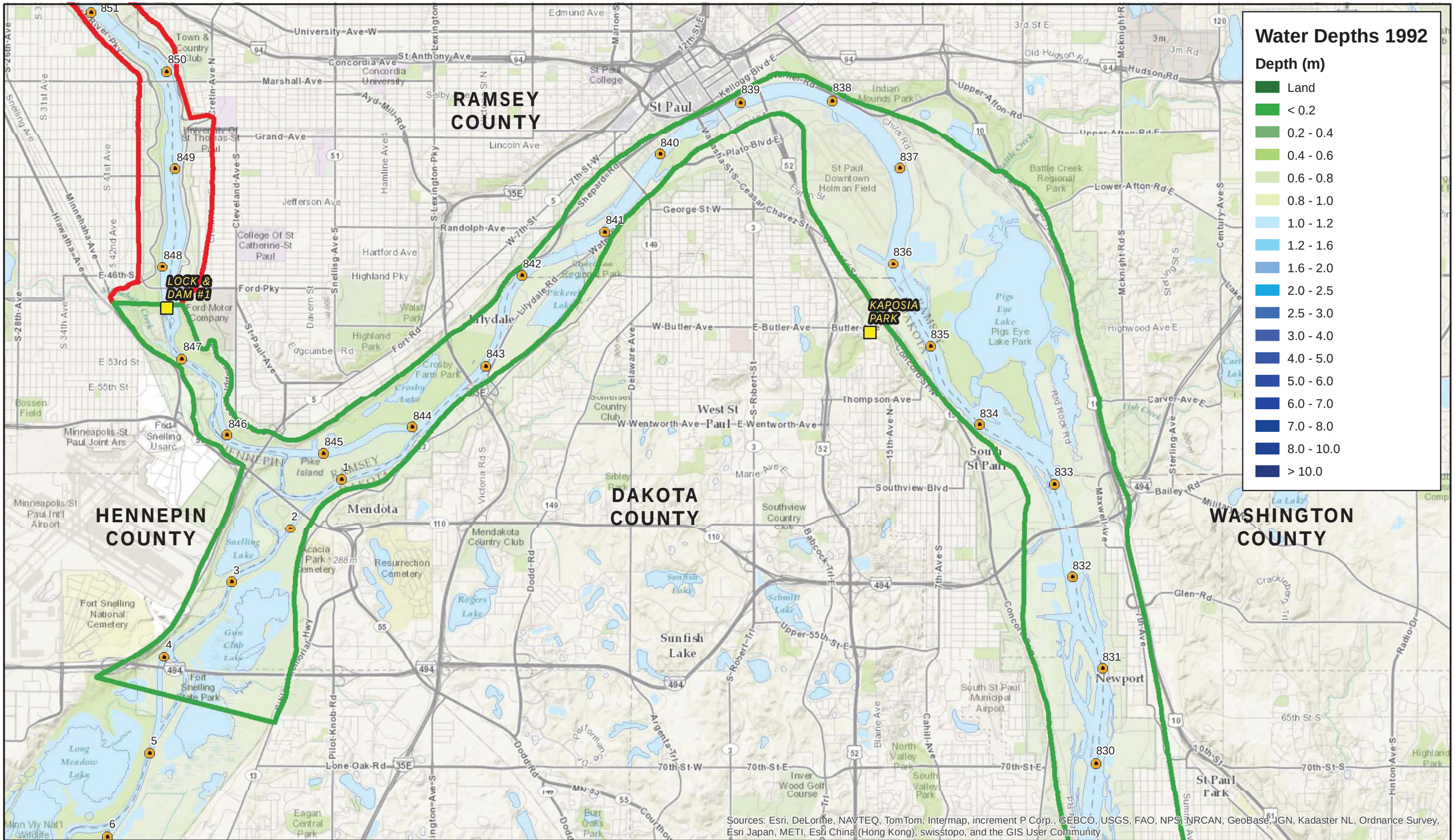
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_F_Bathymetry_11X17L.mxd



US Army Corps of Engineers

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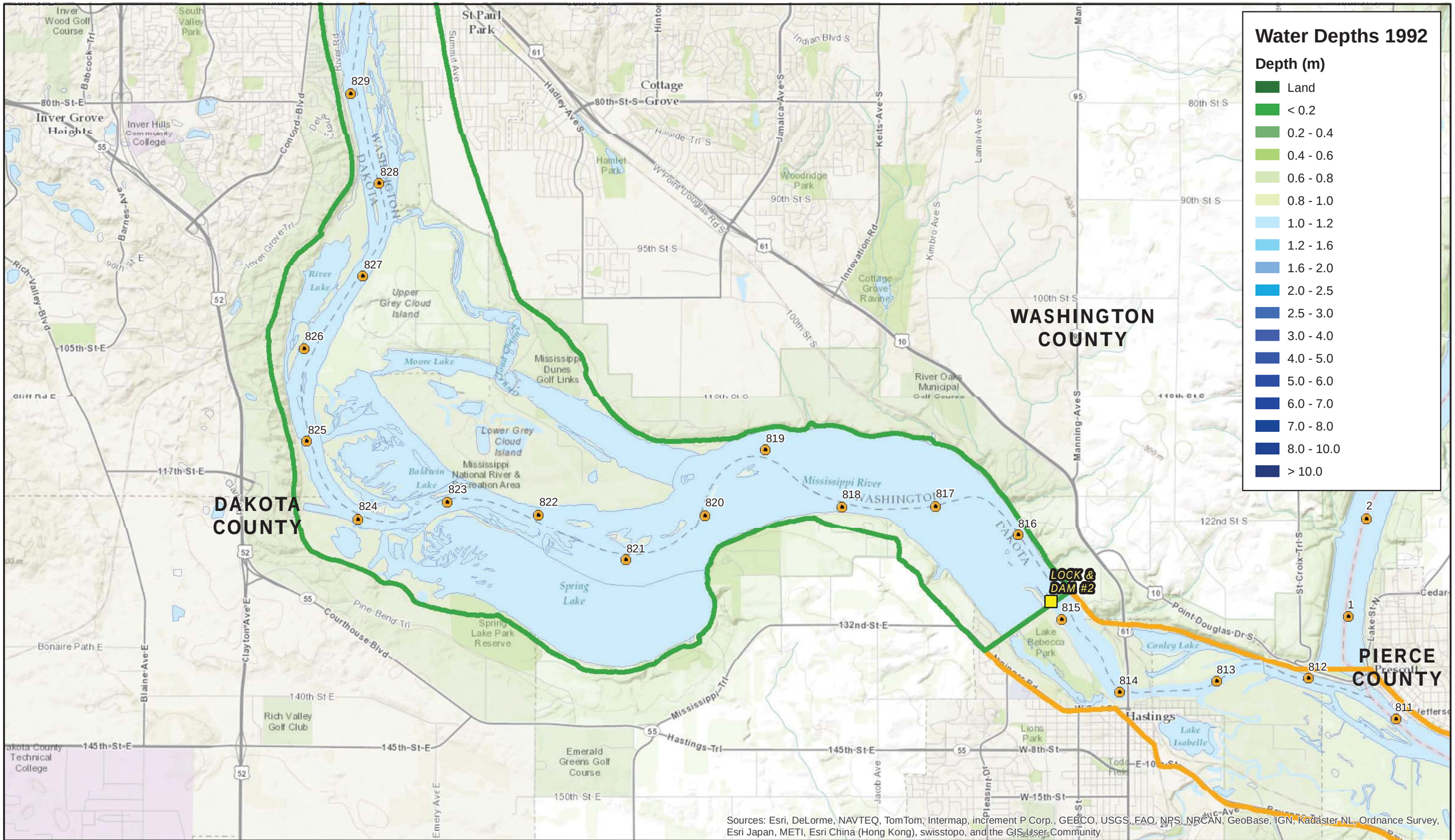
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_F_Bathymetry_11X17L.mxd



US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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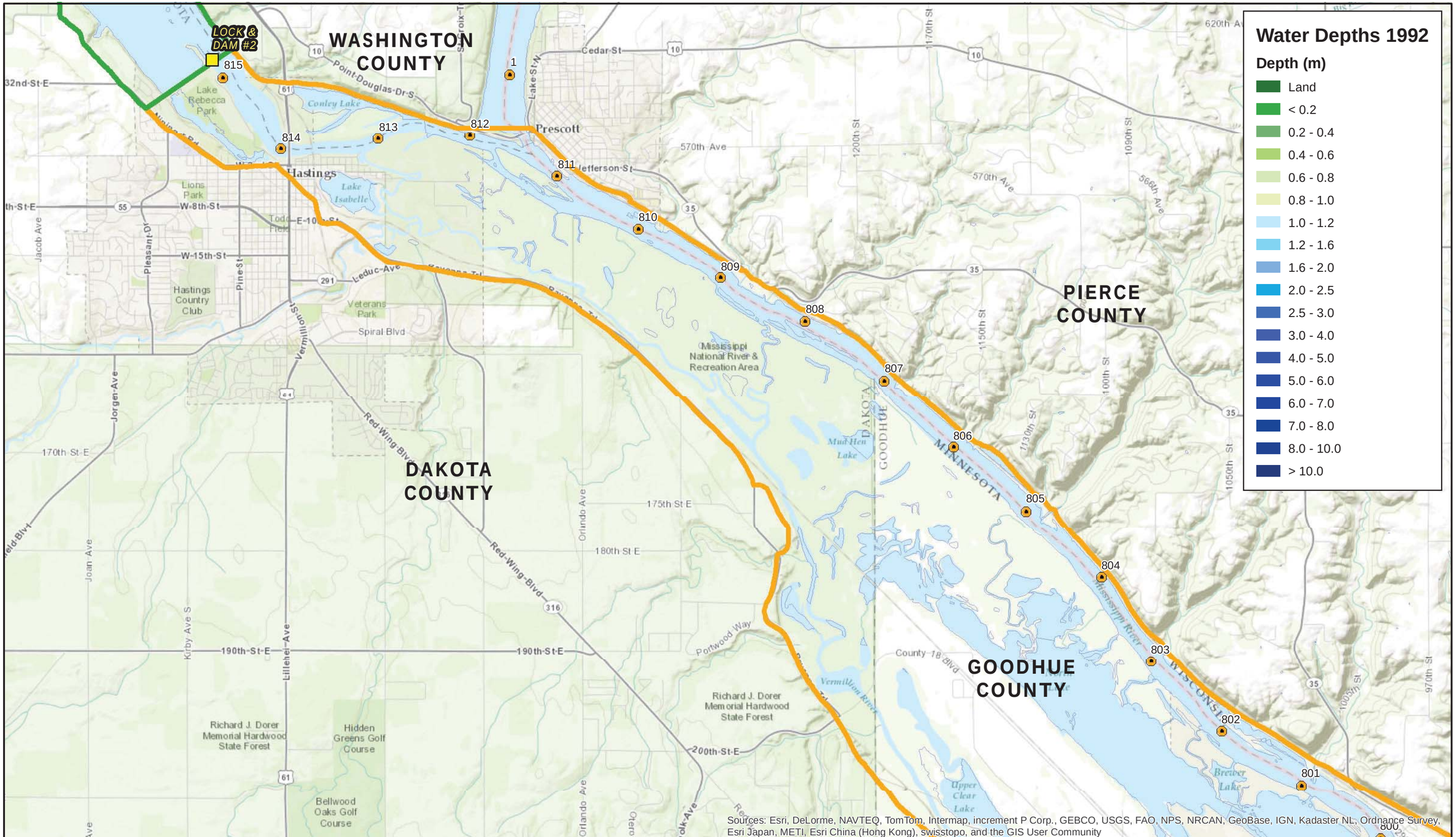

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

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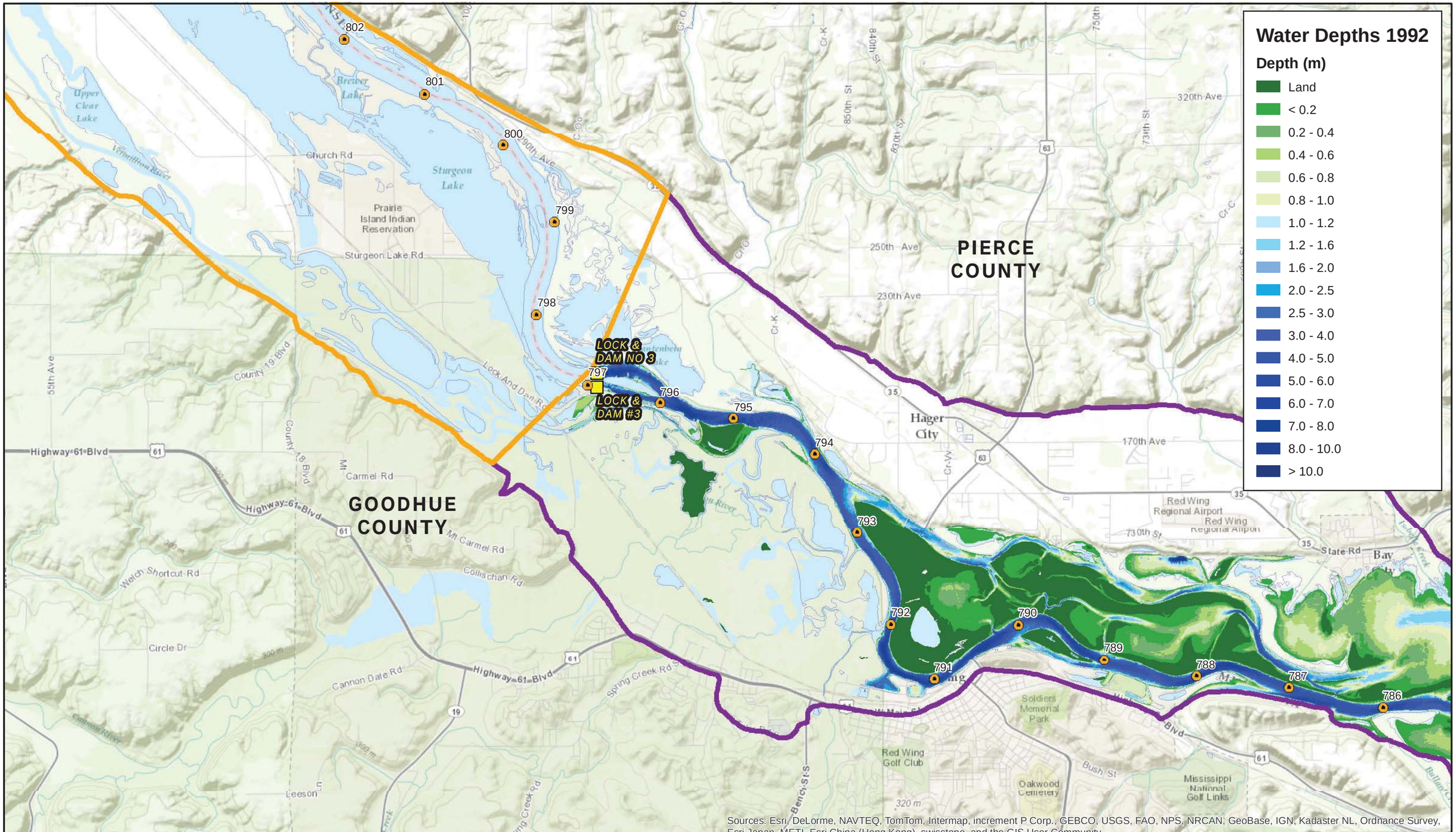

US Army Corps of Engineers

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Miles
1:58,000
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

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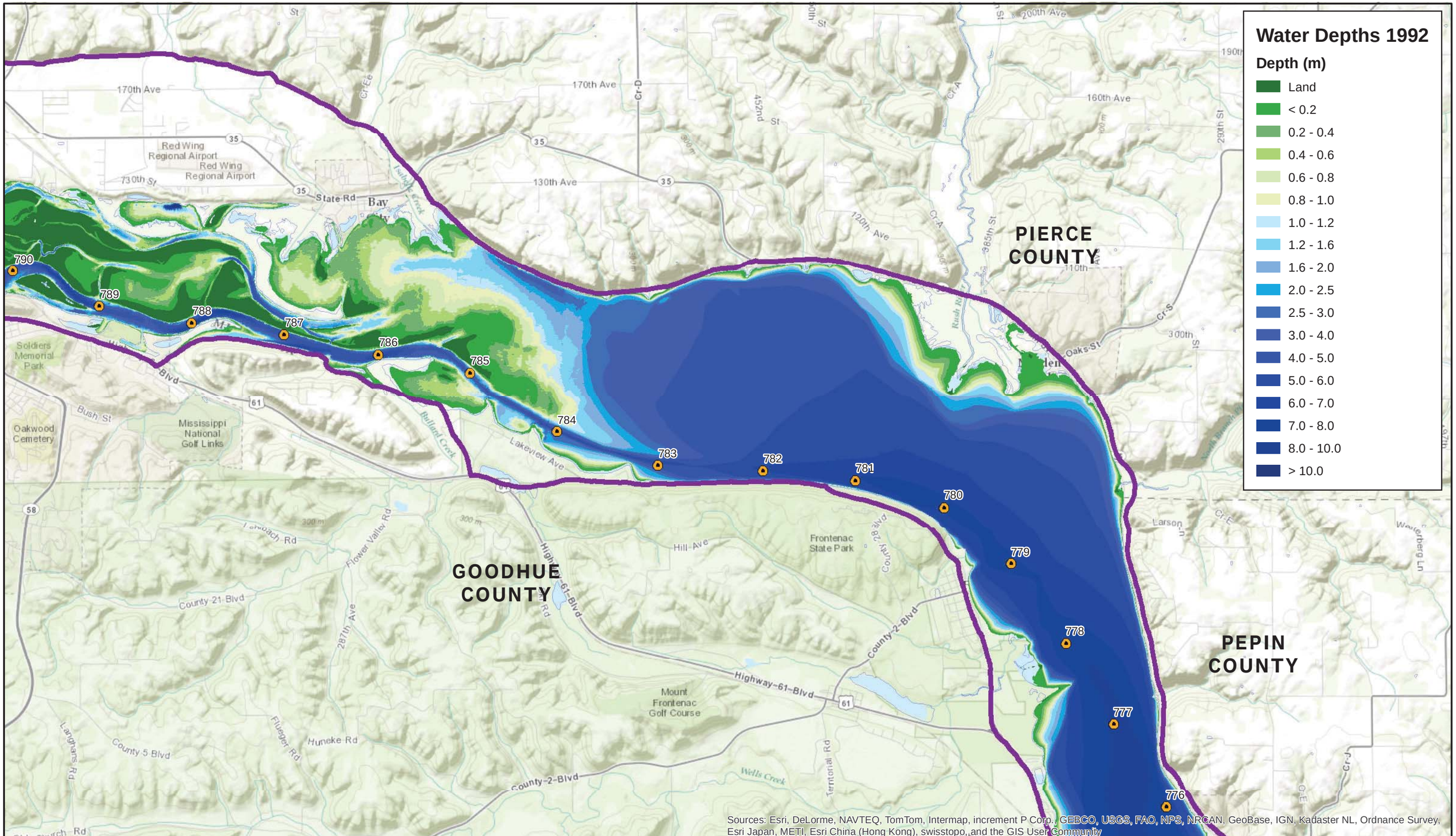

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

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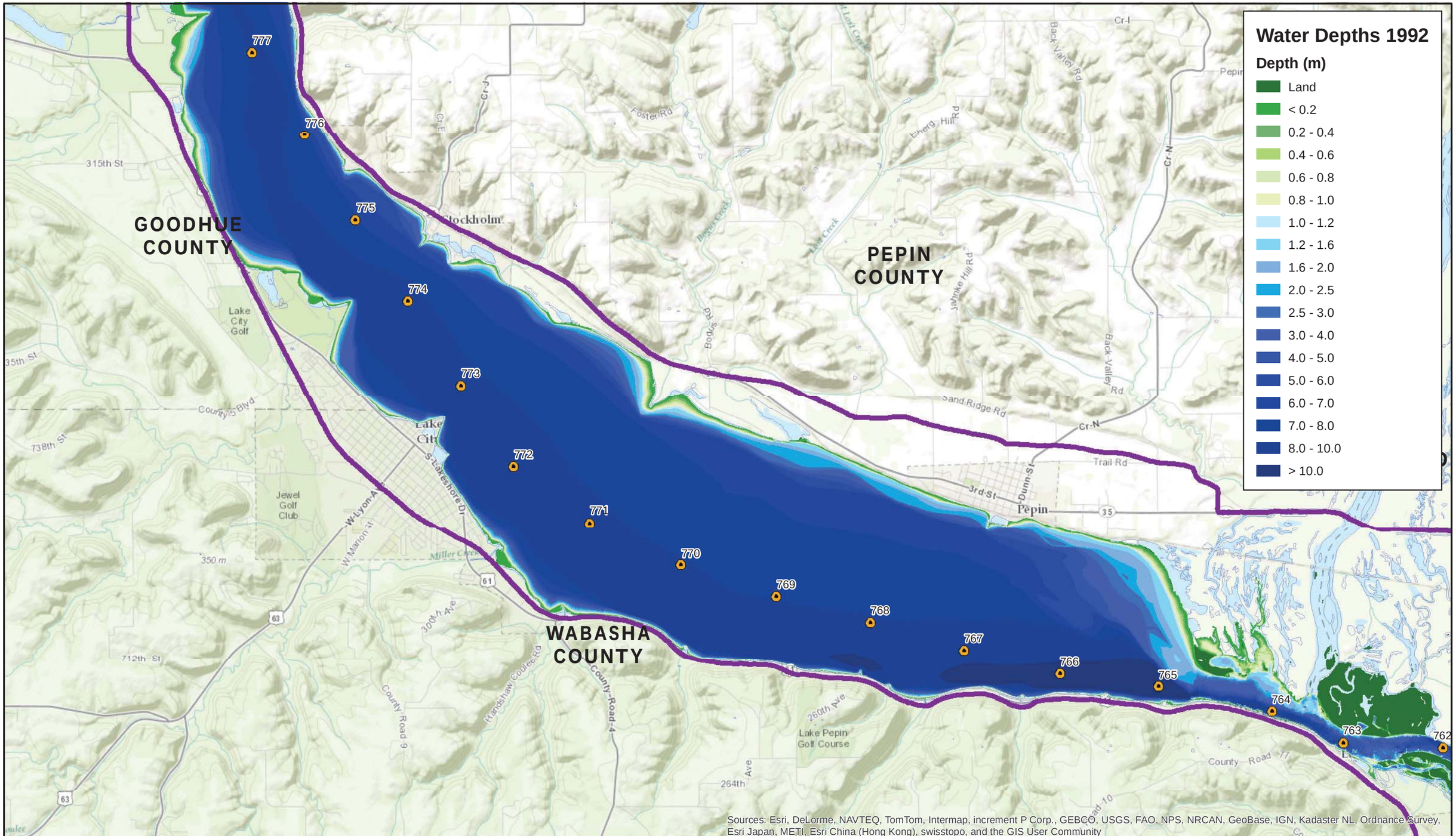

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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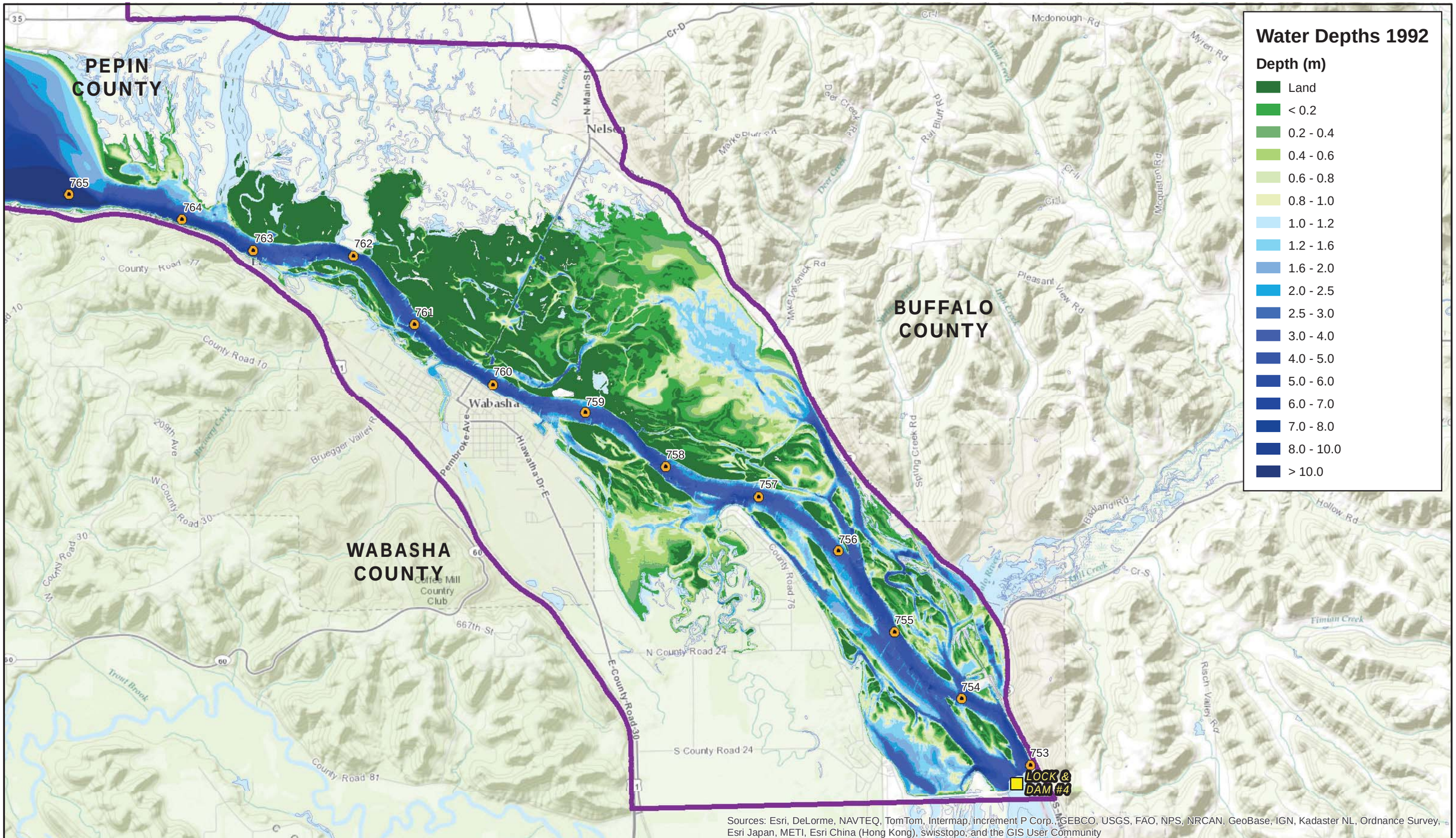

US Army Corps of Engineers

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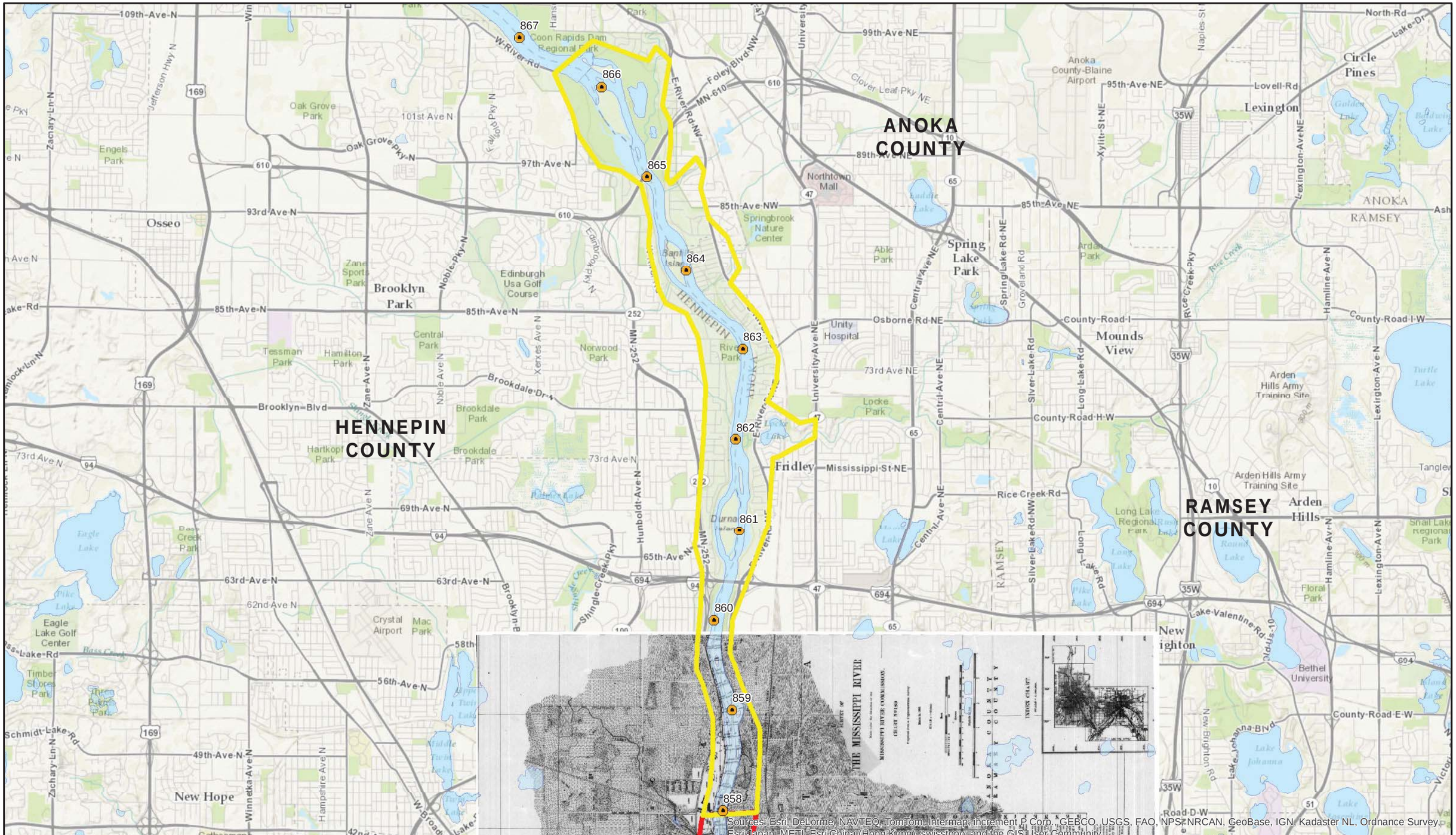
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix F - Bathymetry
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_F_Bathymetry_11X17L.mxd



US Army Corps of Engineers

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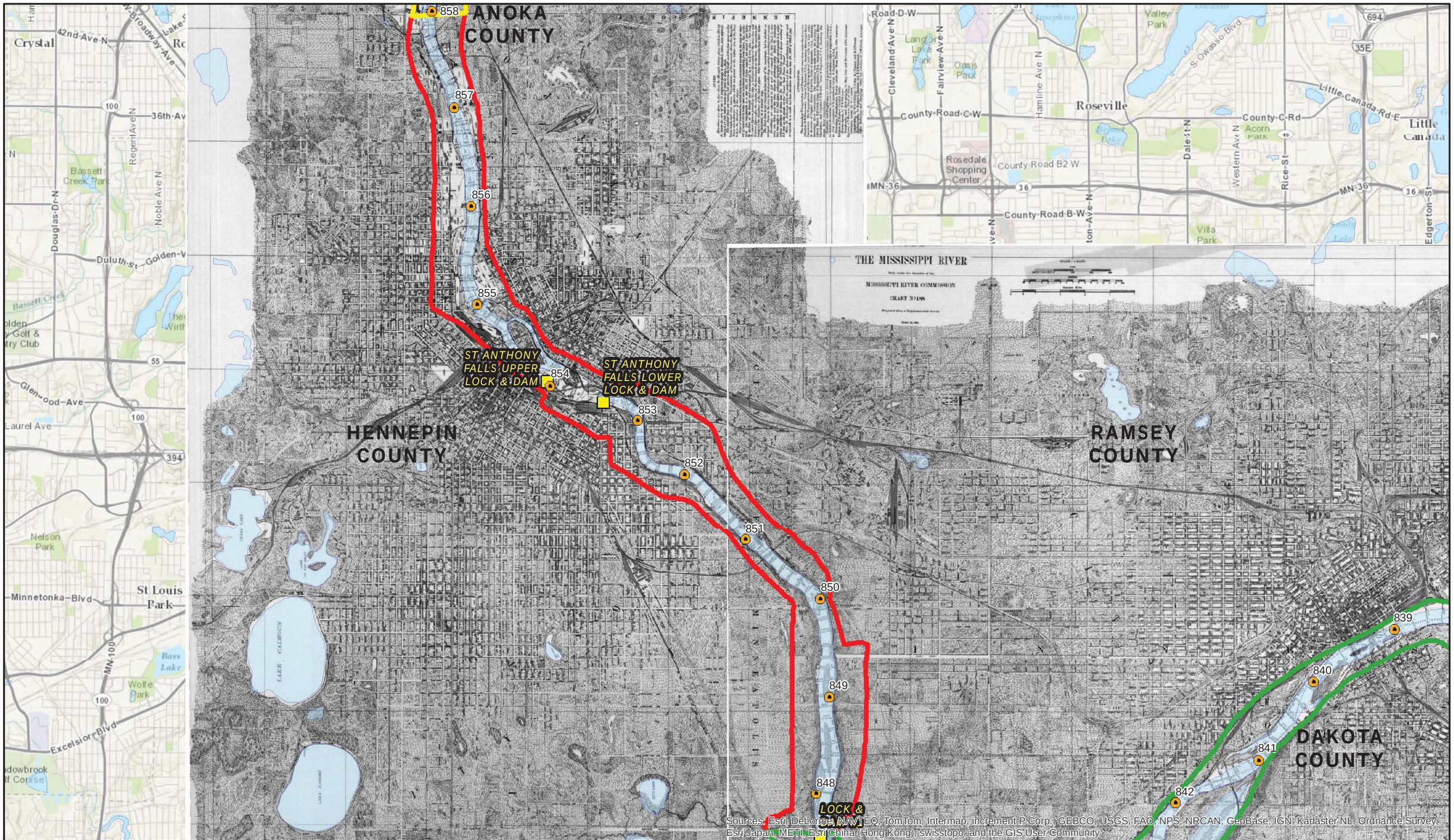
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_G_1890s_MRC_11X17L.mxd



US Army Corps of Engineers

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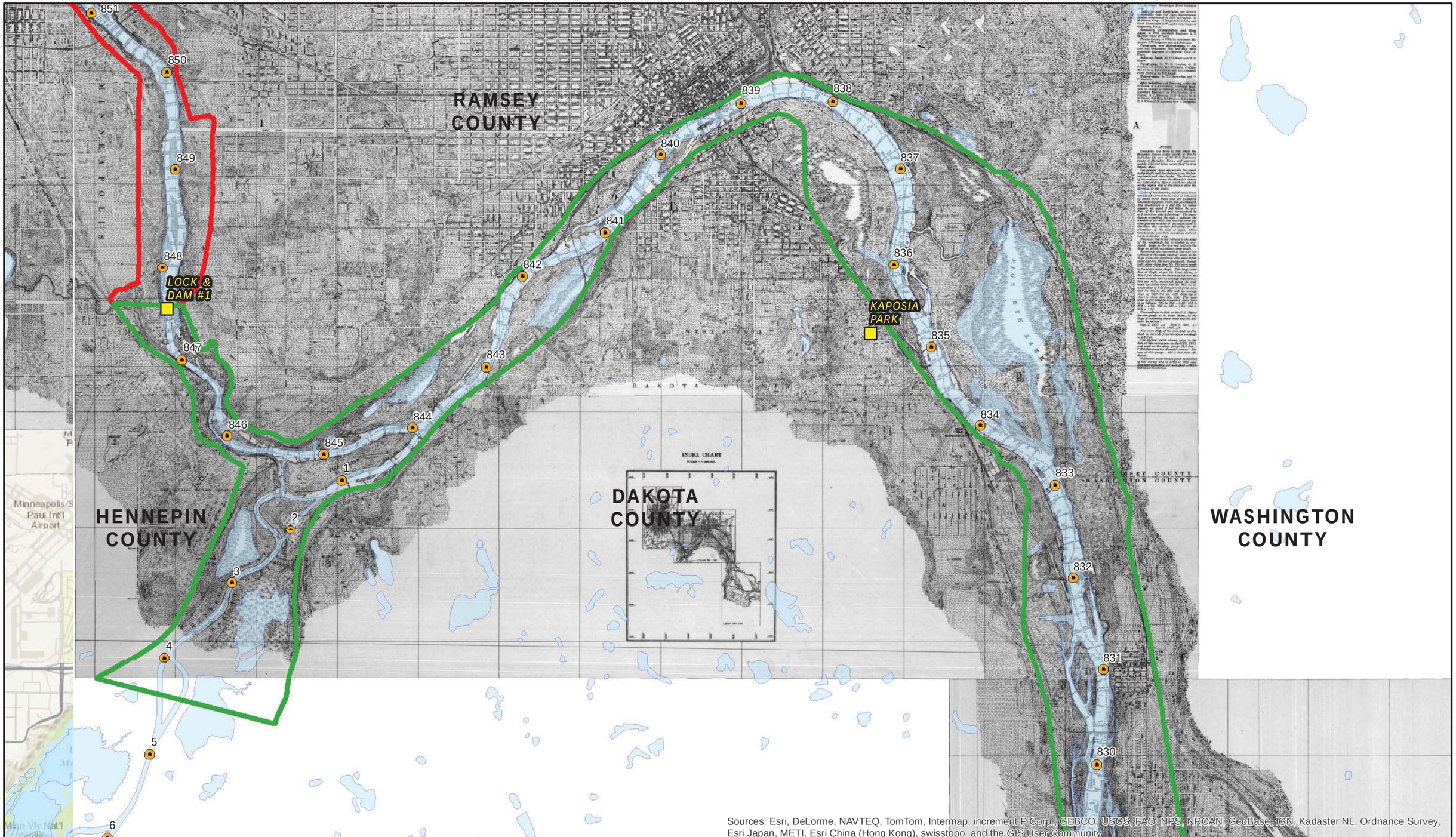
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_G_1890s_MRC_11X17L.mxd



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US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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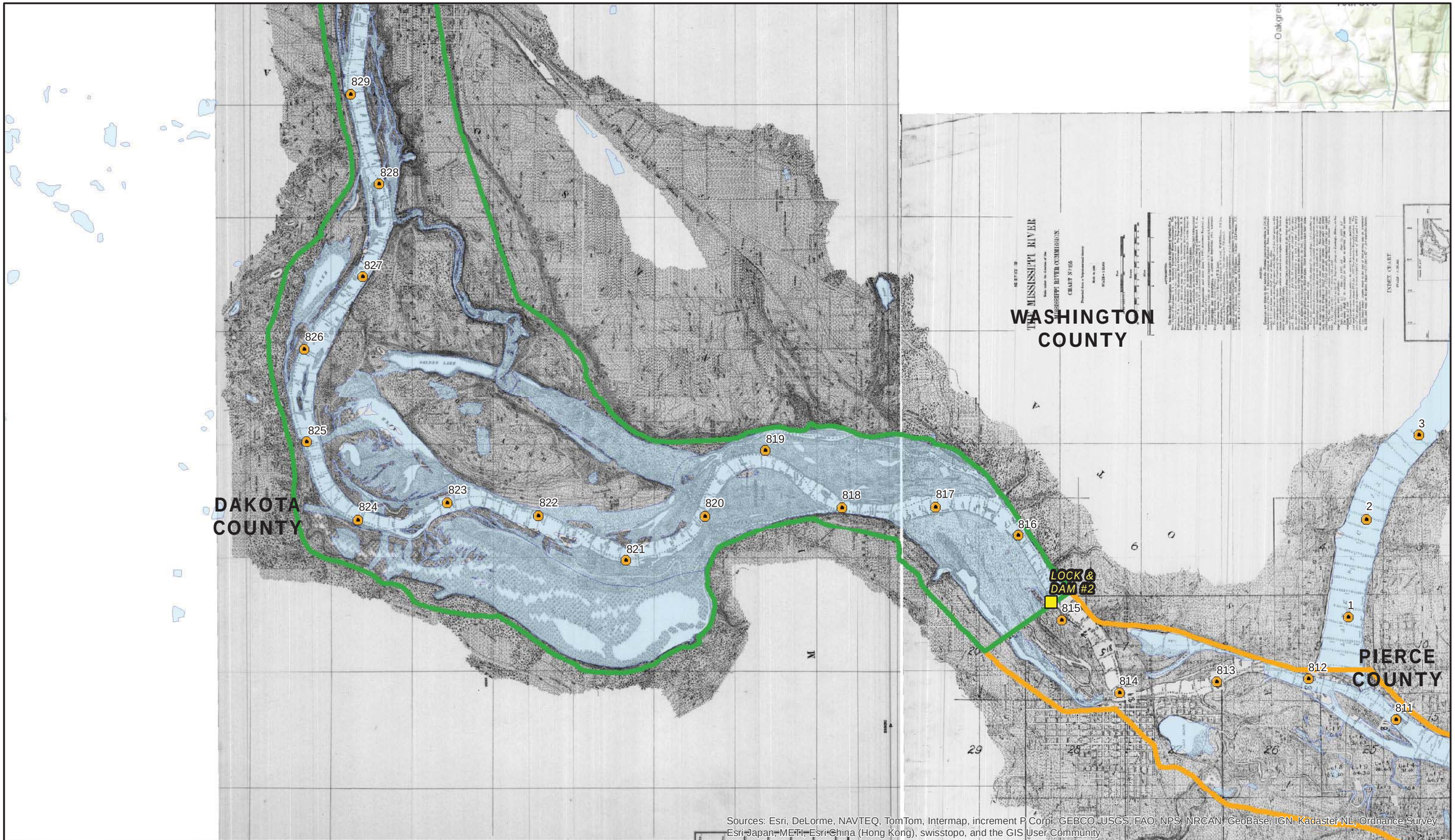

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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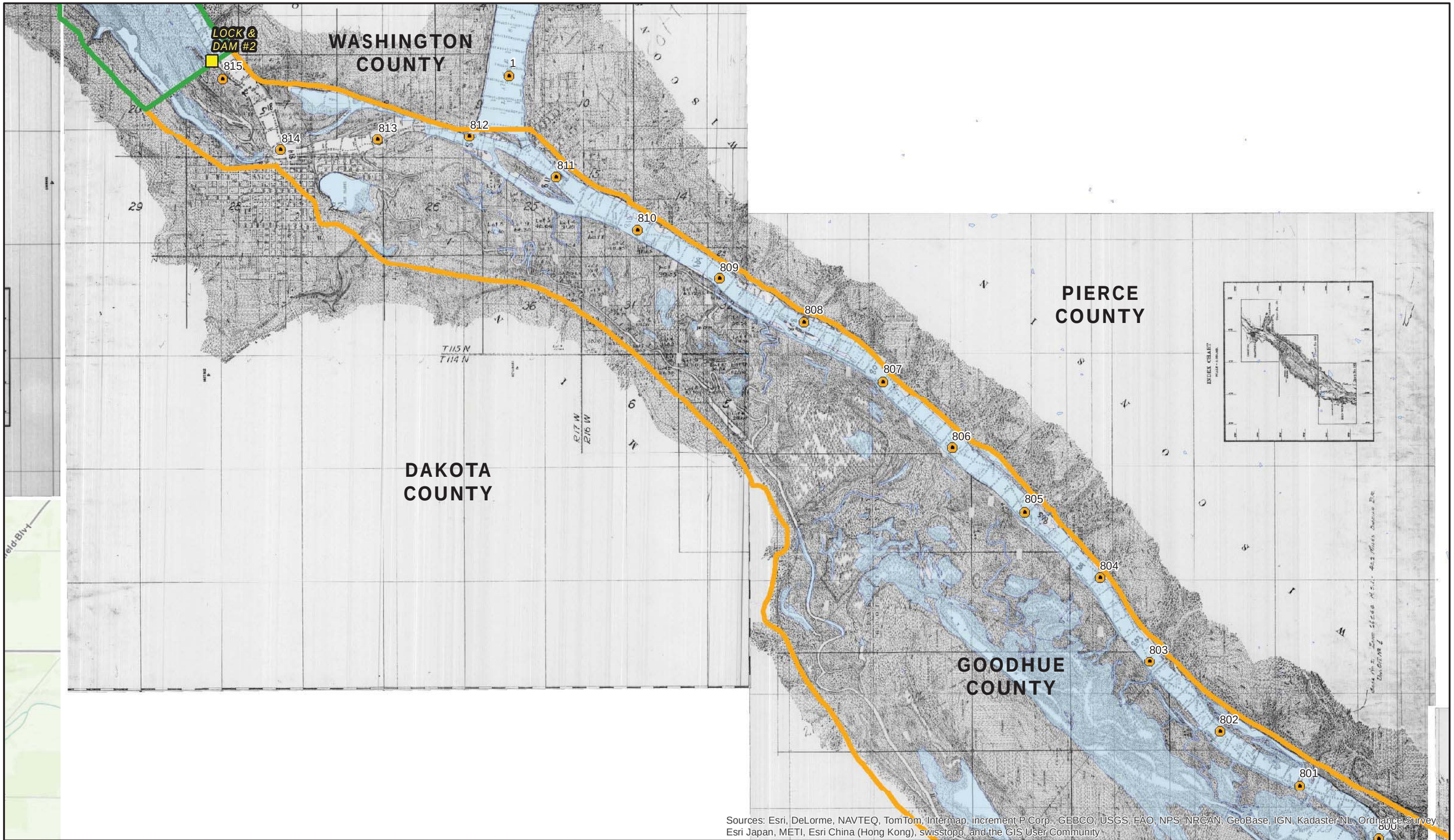

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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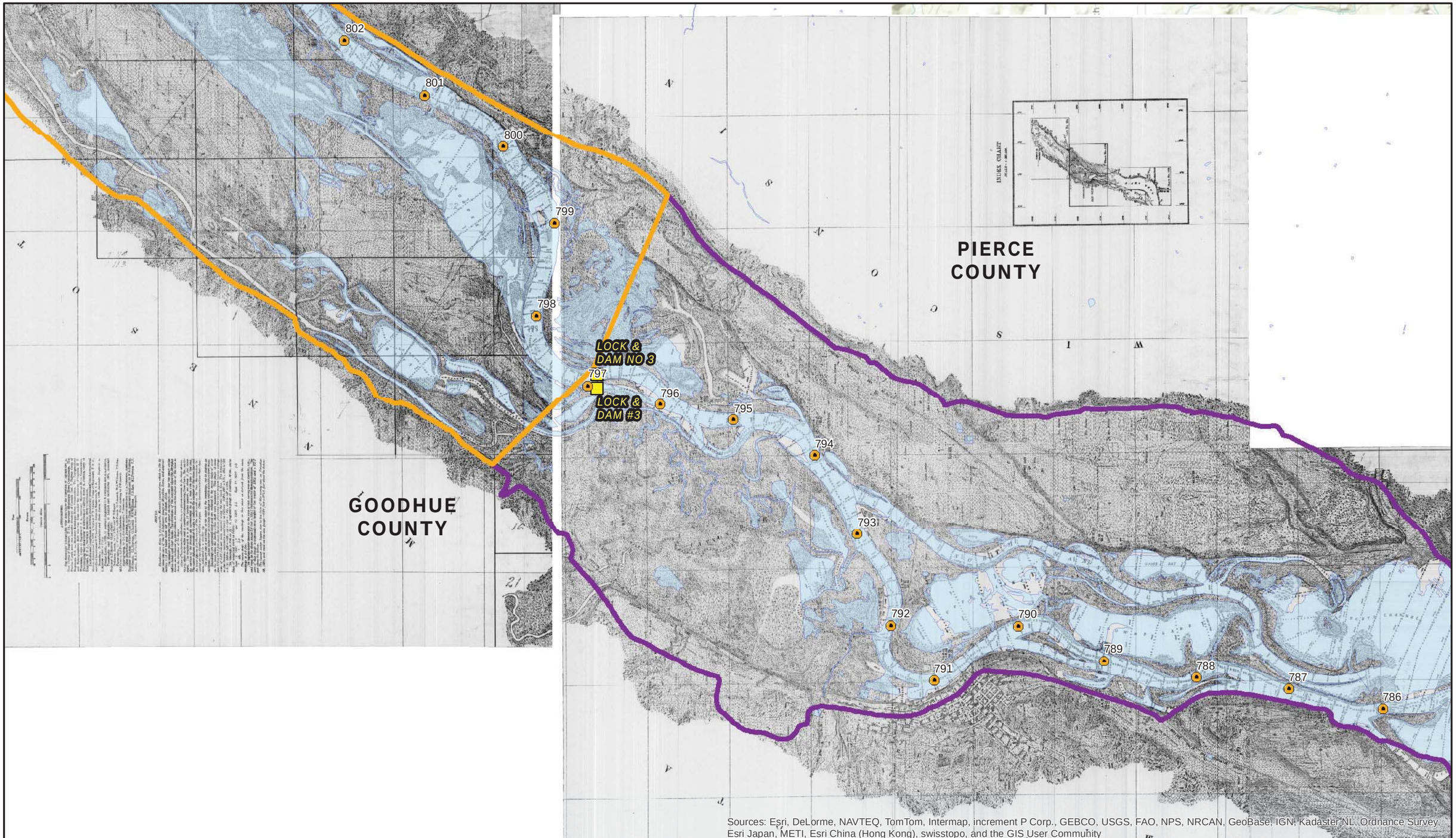

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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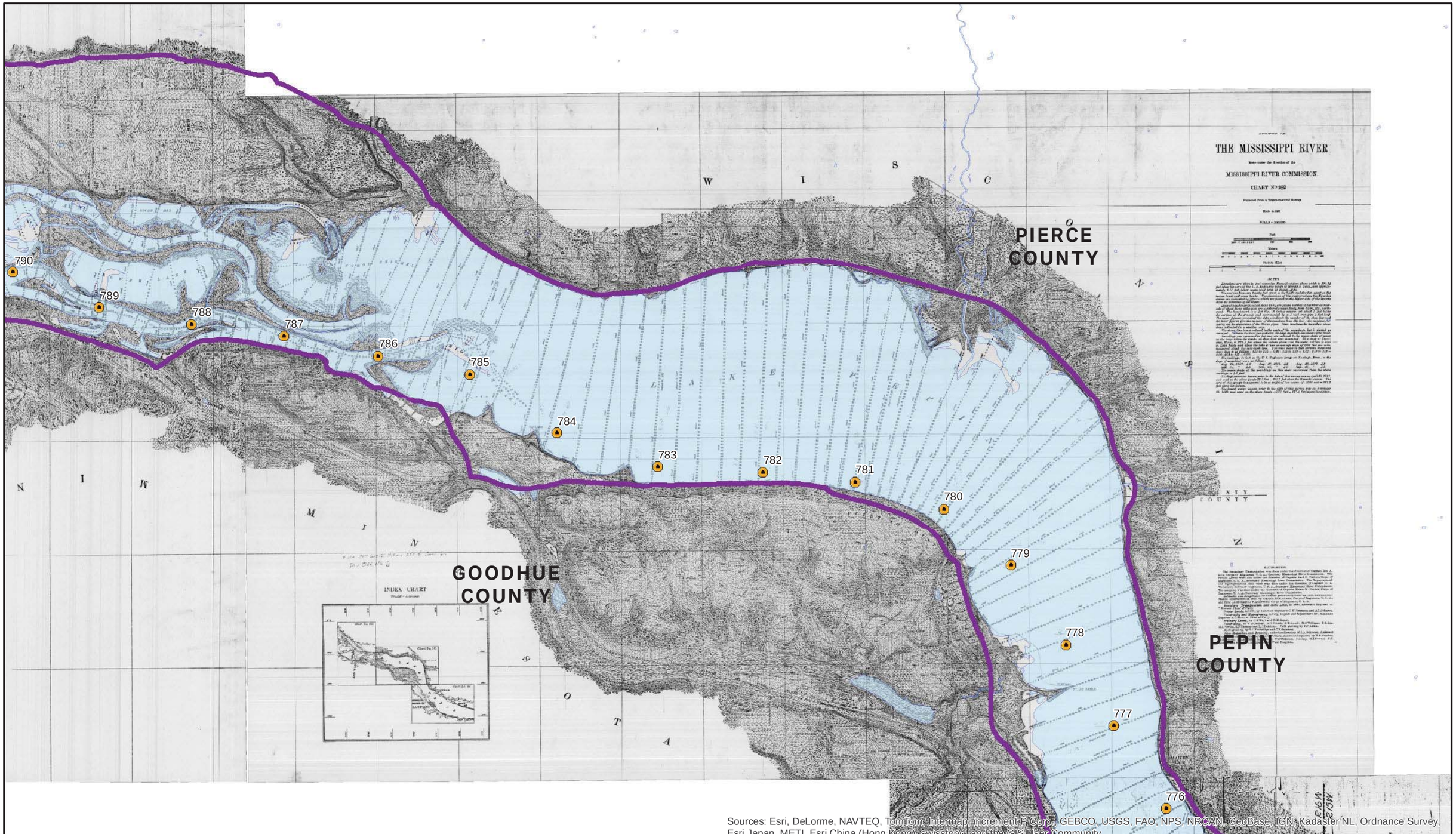

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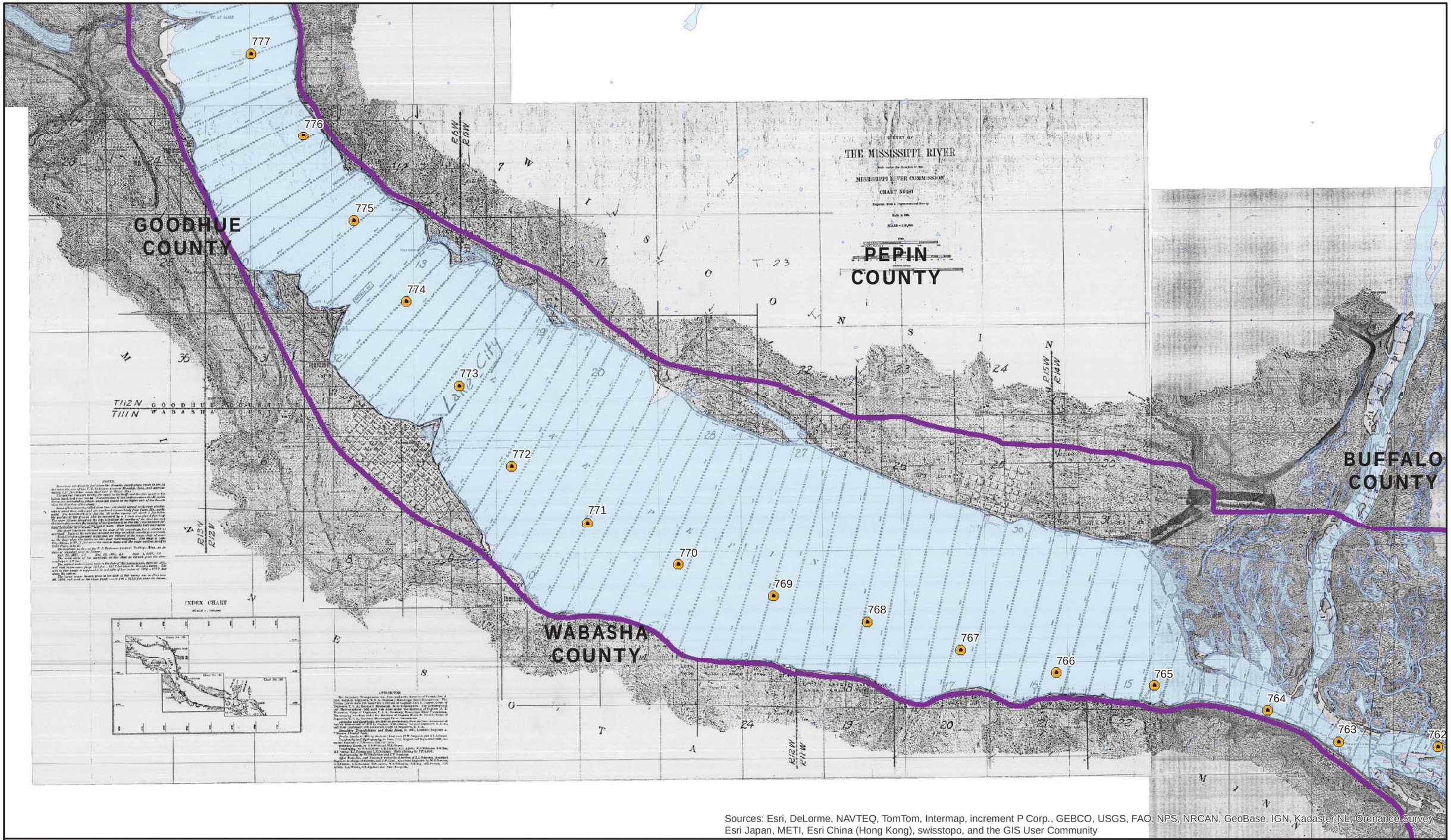
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_G_1890s_MRC_11X17L.mxd



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US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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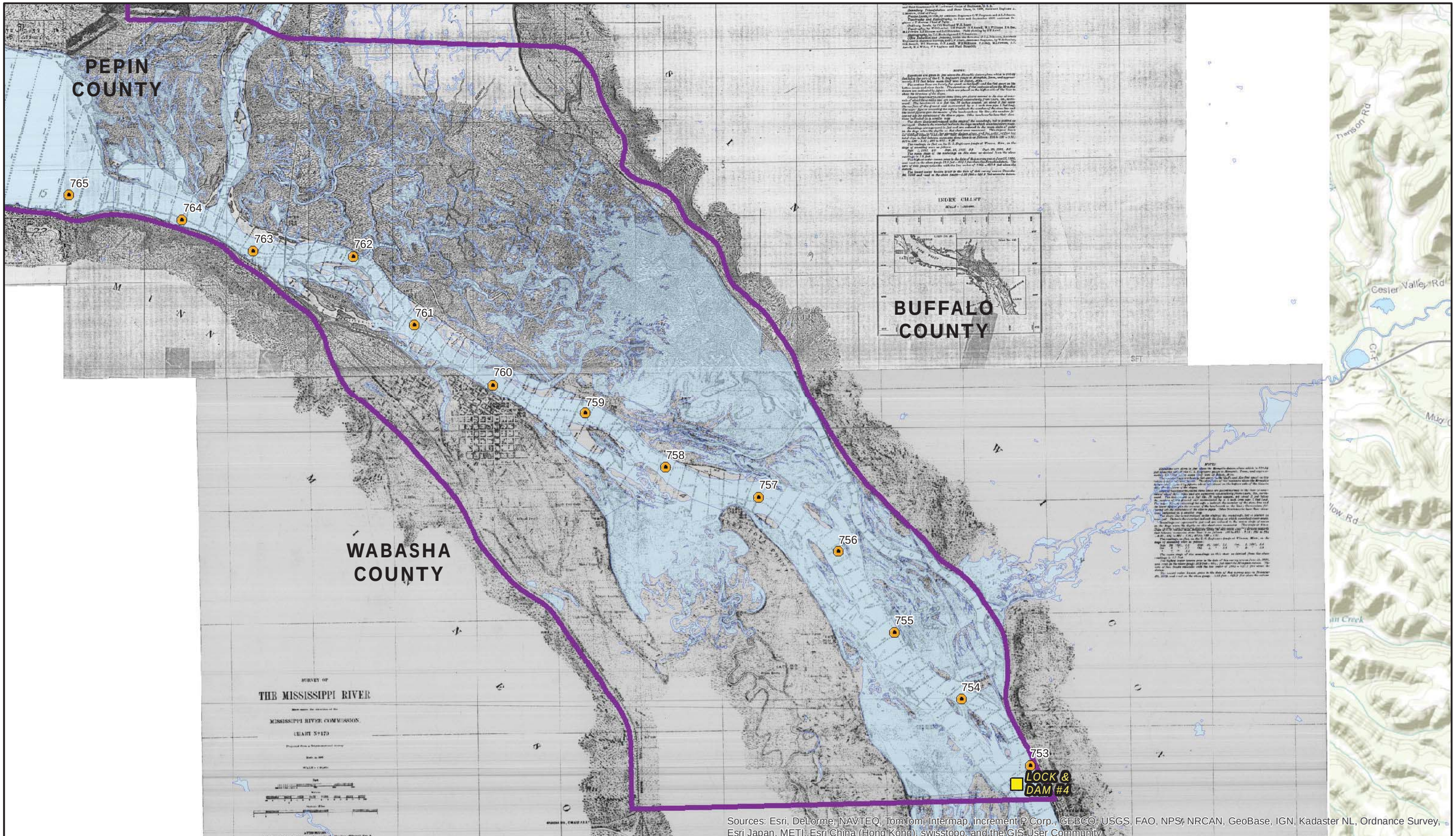

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix G - 1890 Mississippi River Commission (MRC) Maps
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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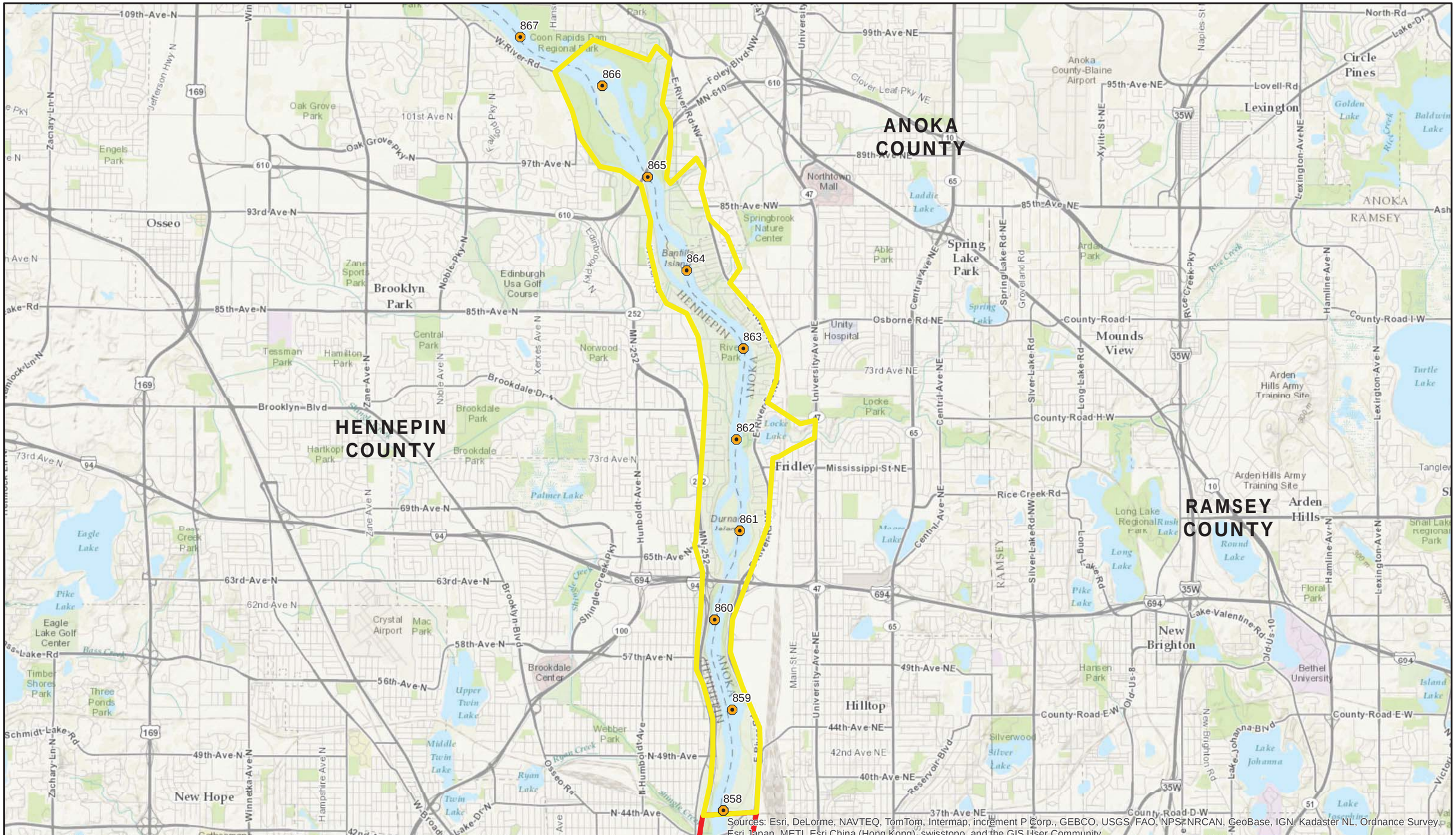

US Army Corps of Engineers

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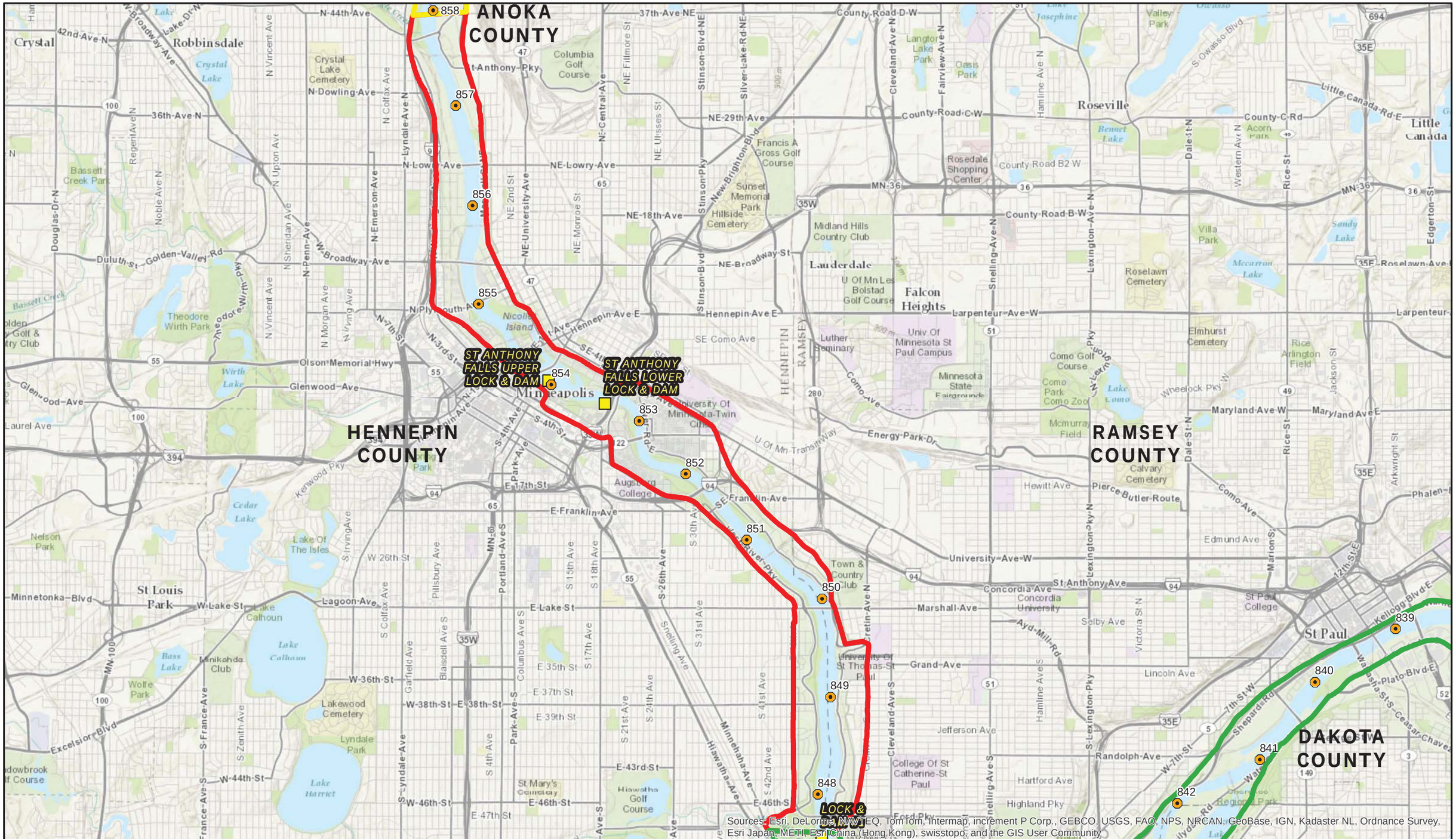
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_H_1930s_Brown_Survey_11X17L.mxd



US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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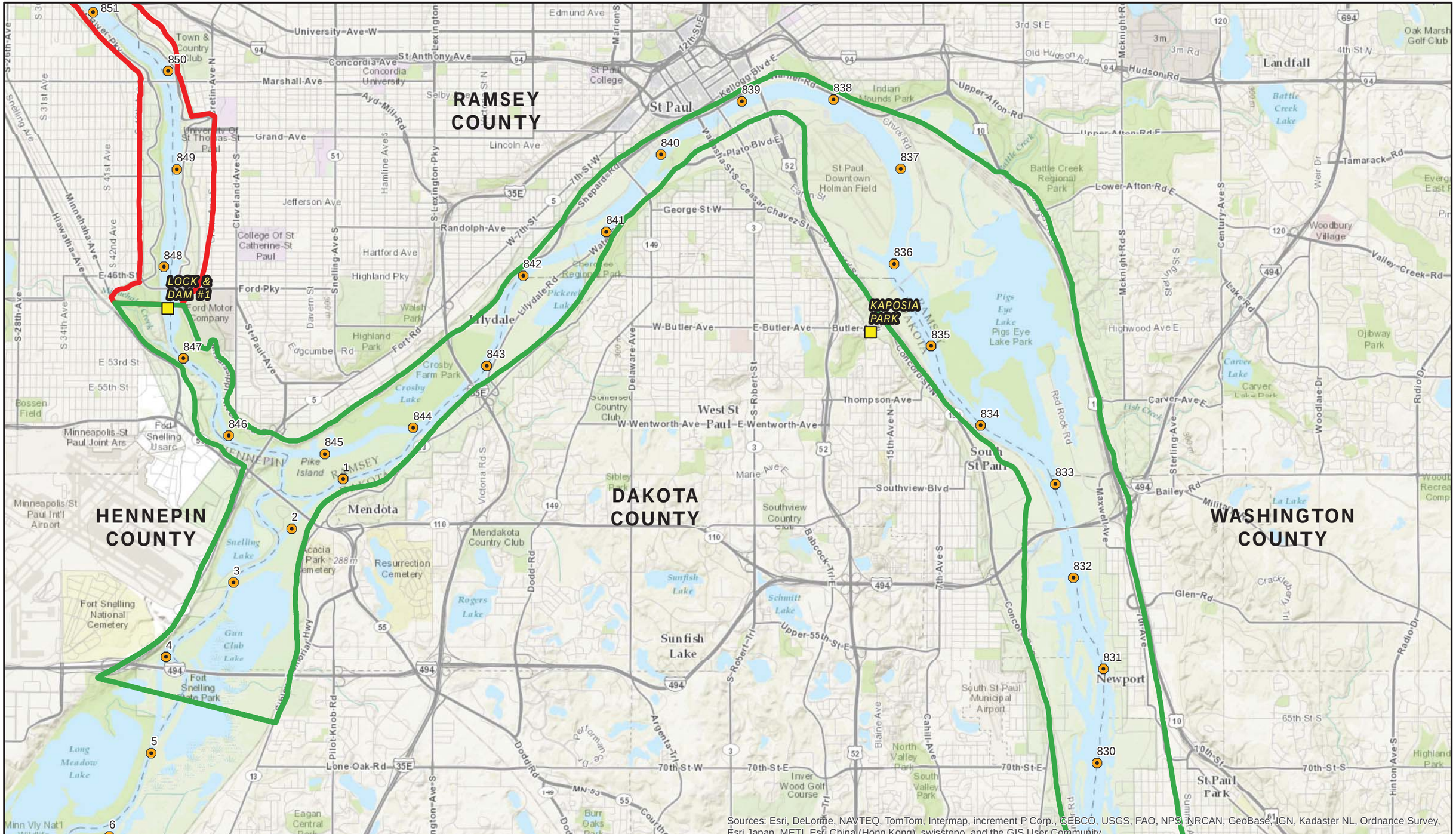

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool

- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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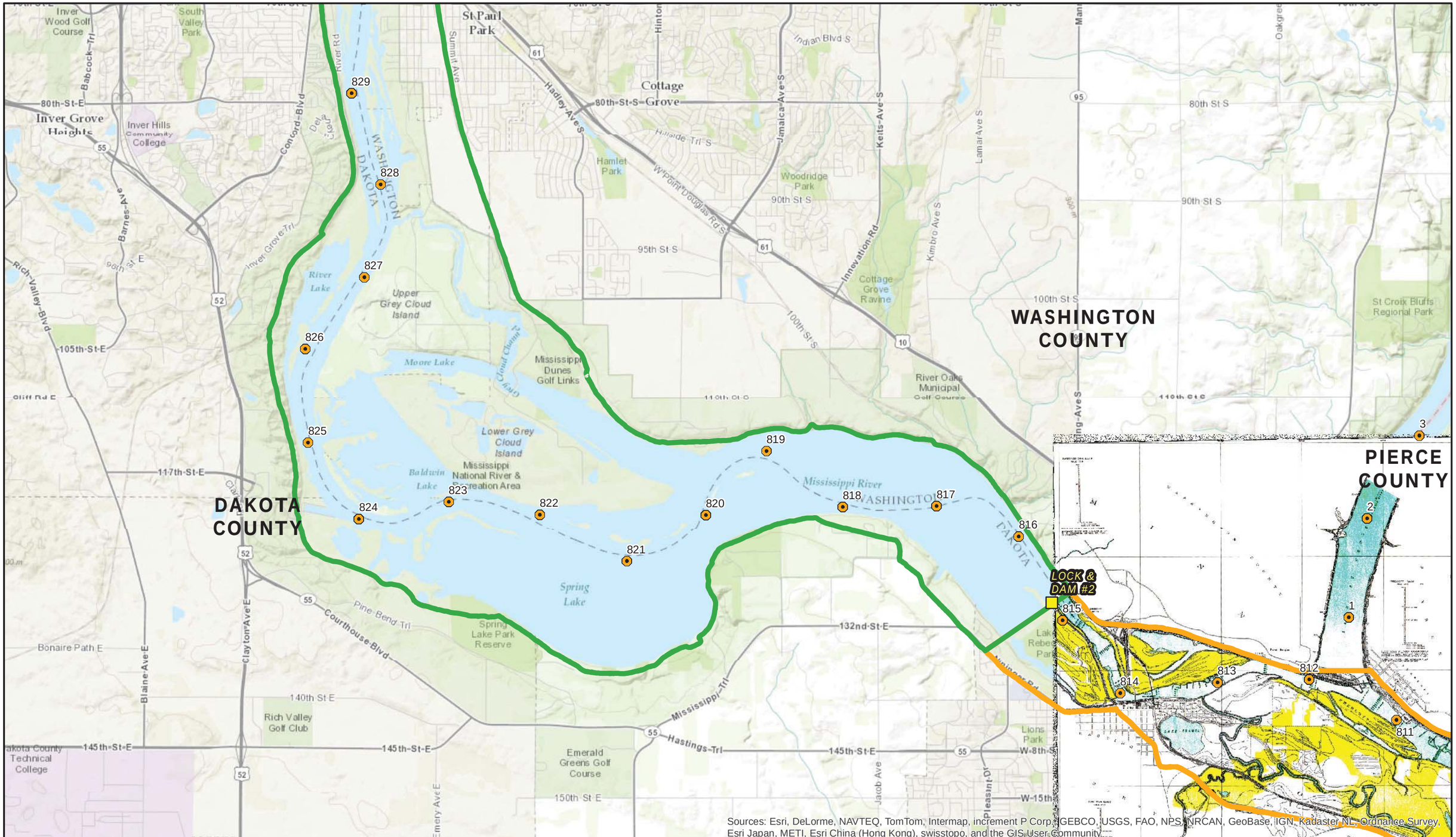

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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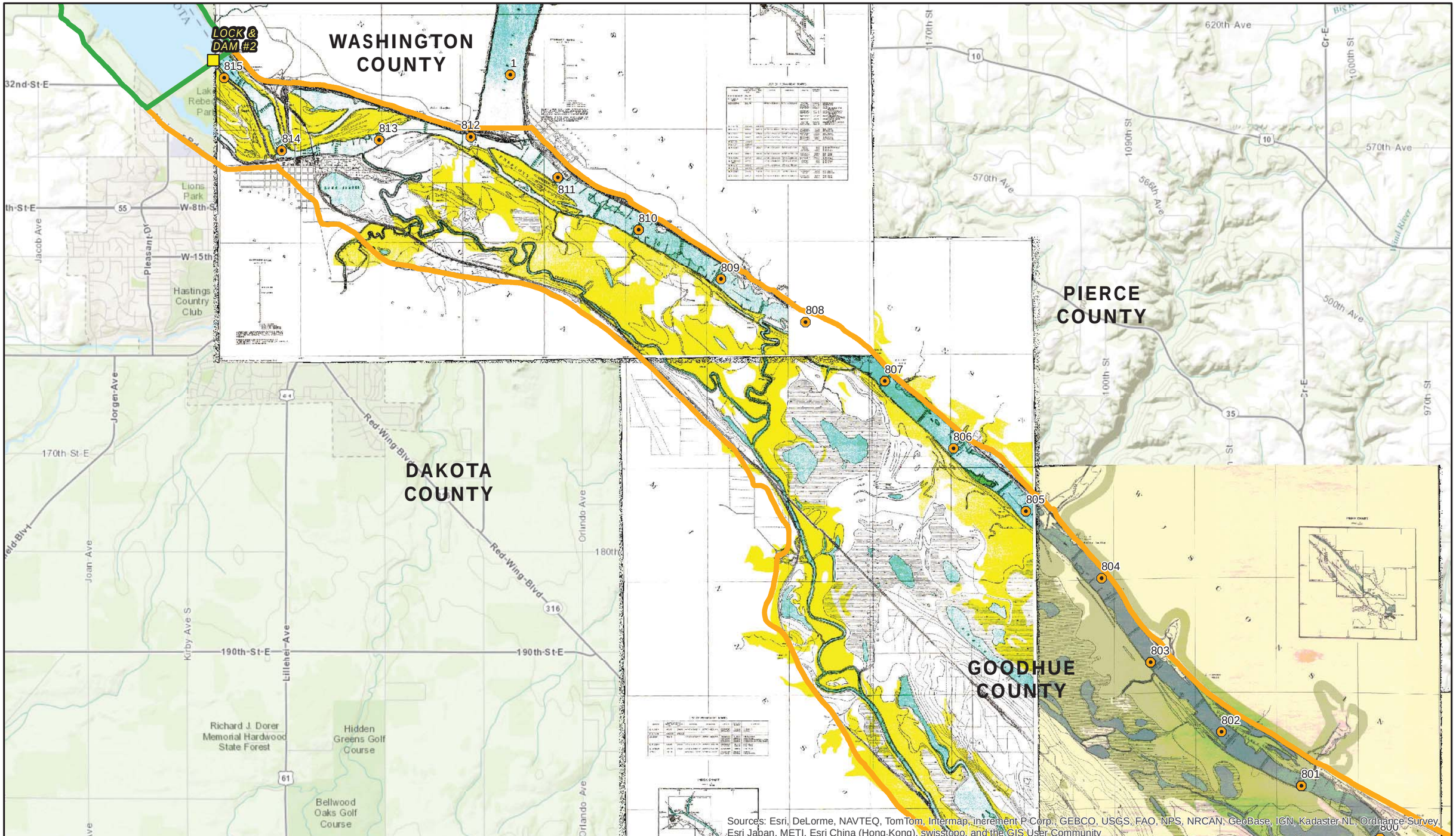

US Army Corps of Engineers

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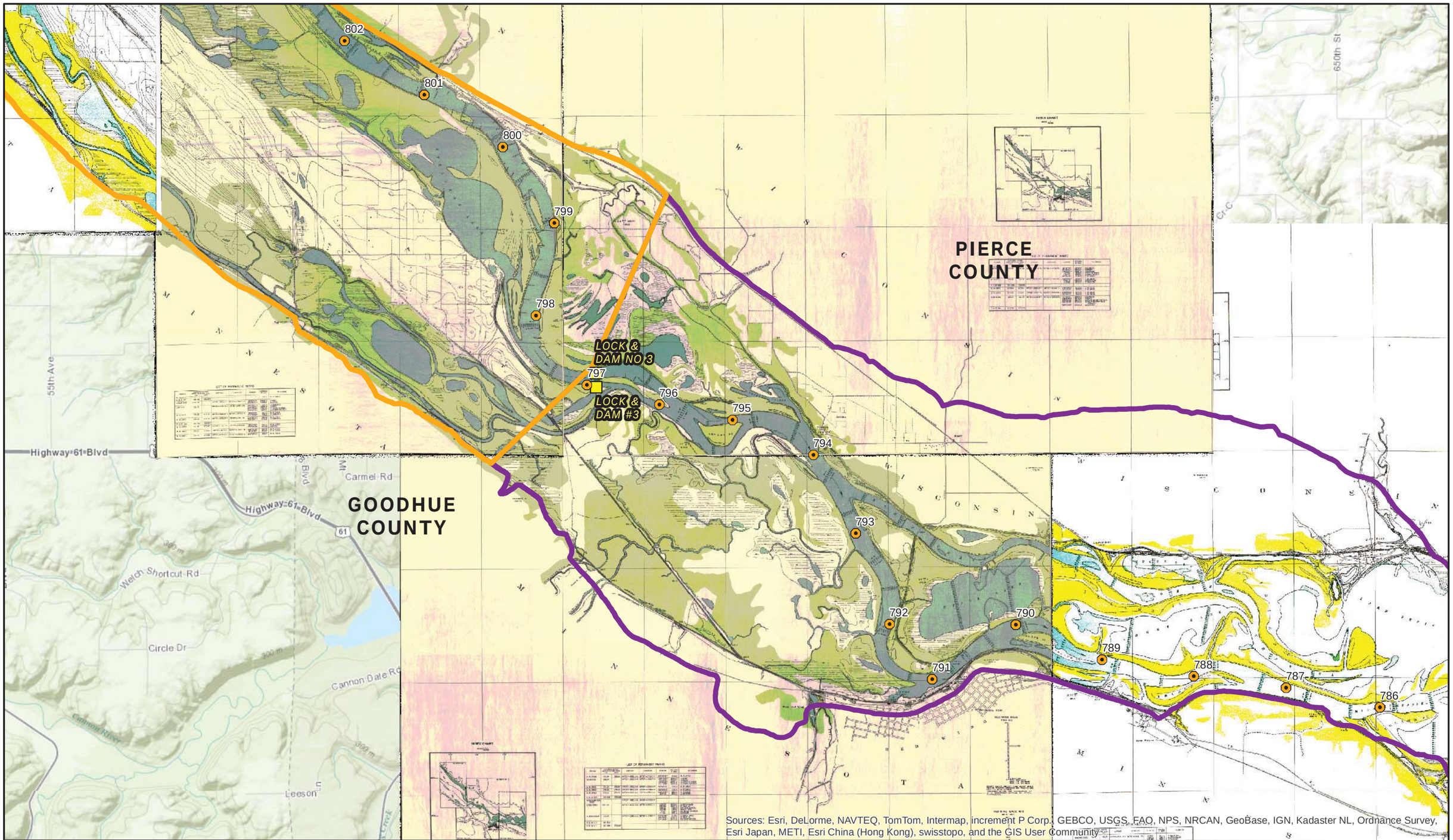
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_H_1930s_Brown_Survey_11X17L.mxd



US Army Corps of Engineers

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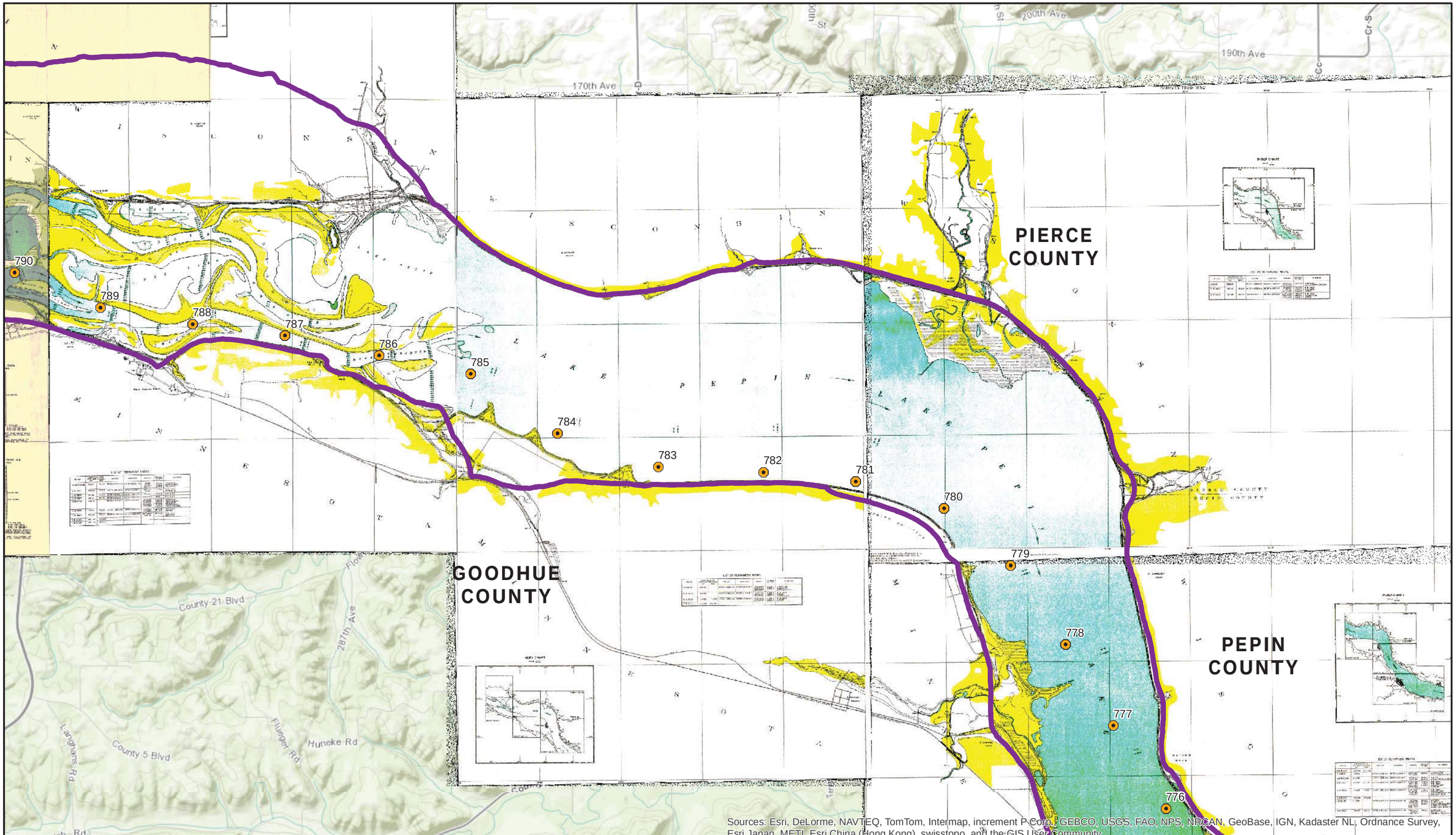
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_H_1930s_Brown_Survey_11X17L.mxd



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Miles

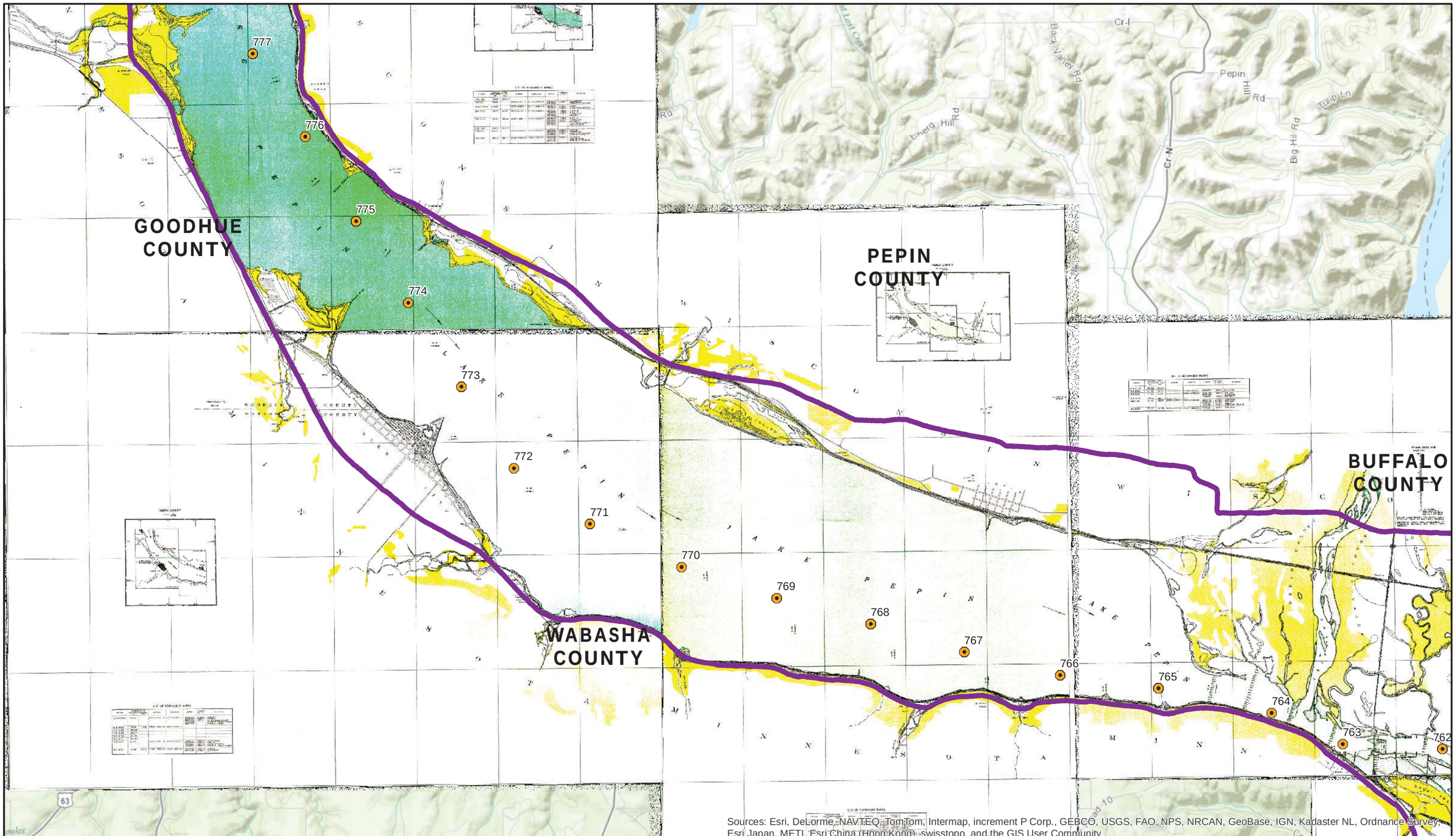
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_H_1930s_Brown_Survey_11X17L.mxd



US Army Corps of Engineers

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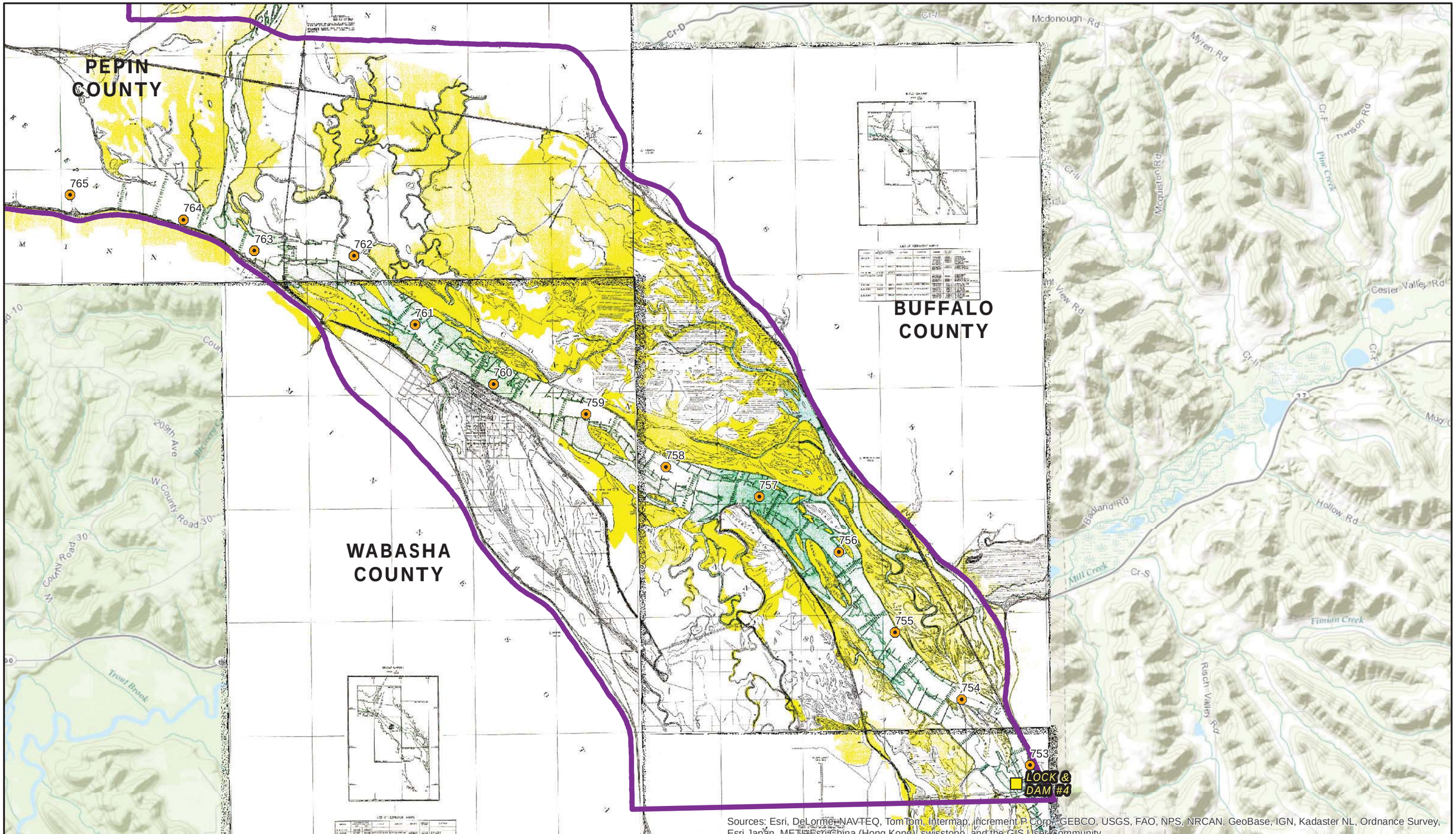
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_H_1930s_Brown_Survey_11X17L.mxd



US Army Corps of Engineers

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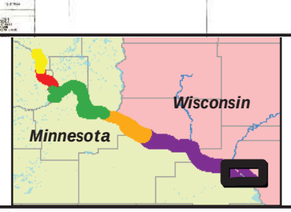
Map 11x17 Landscape

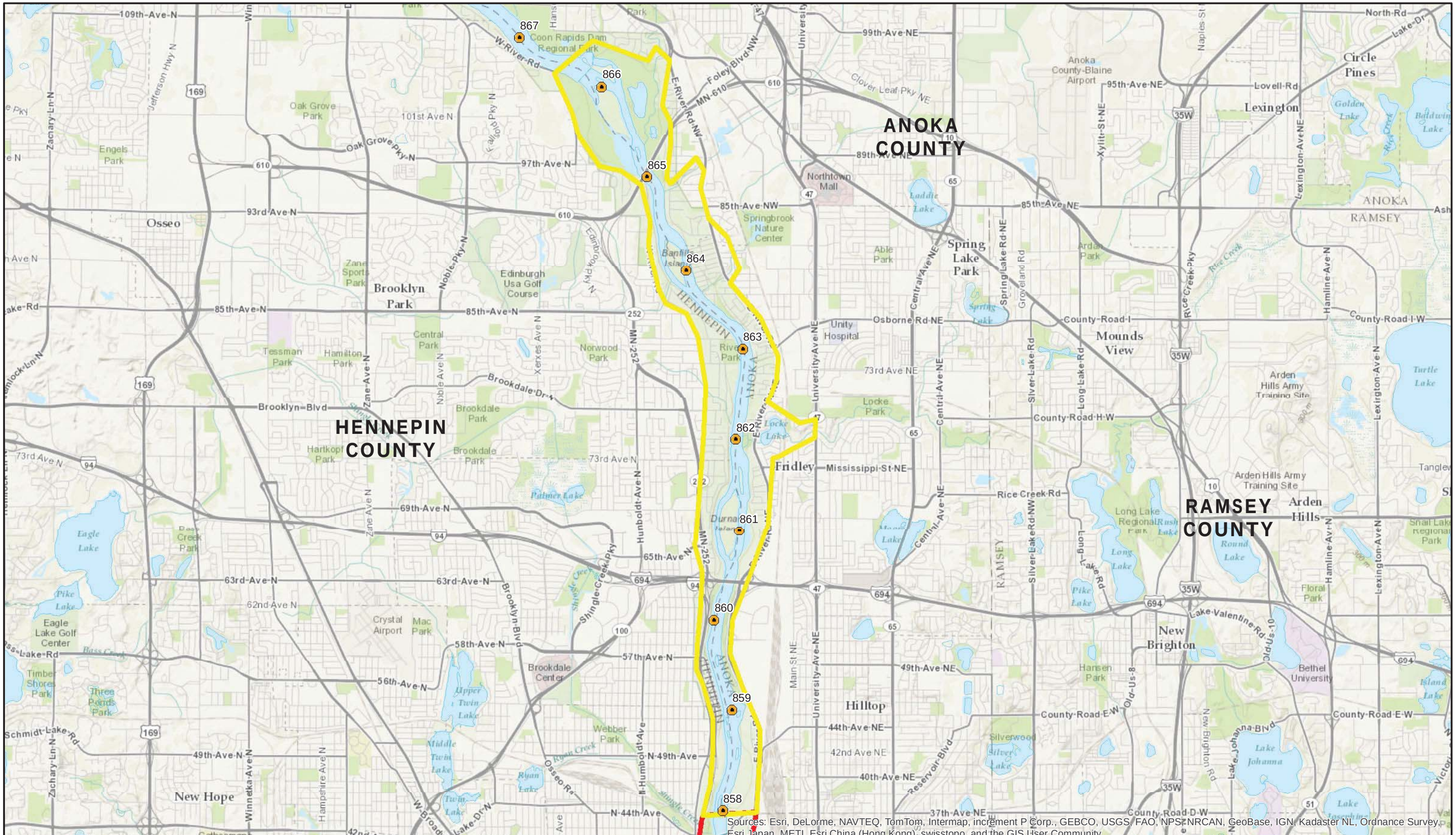


Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix H - 1930s Brown Mississippi River Survey
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_H_1930s_Brown_Survey_11X17L.mxd



US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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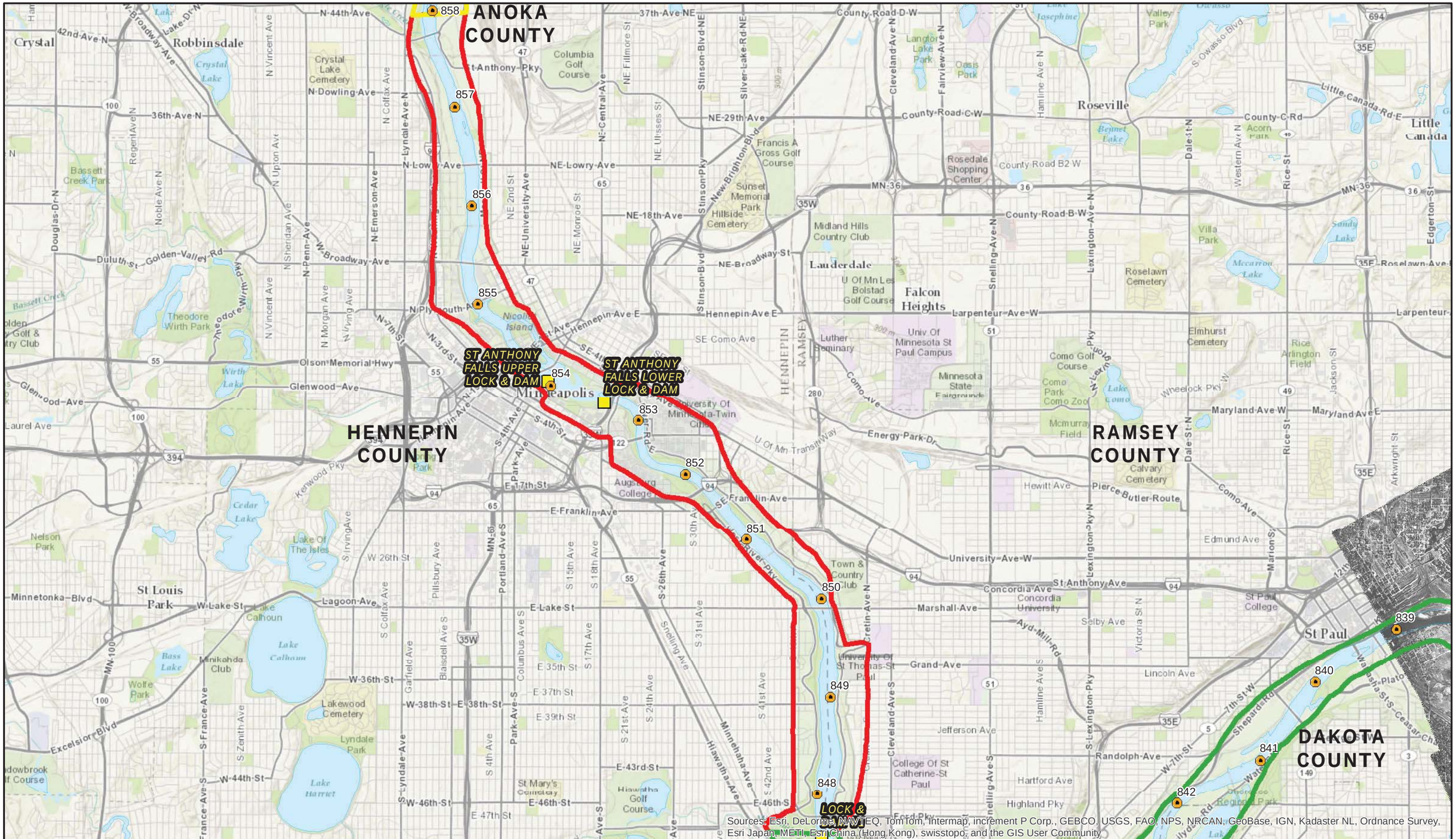

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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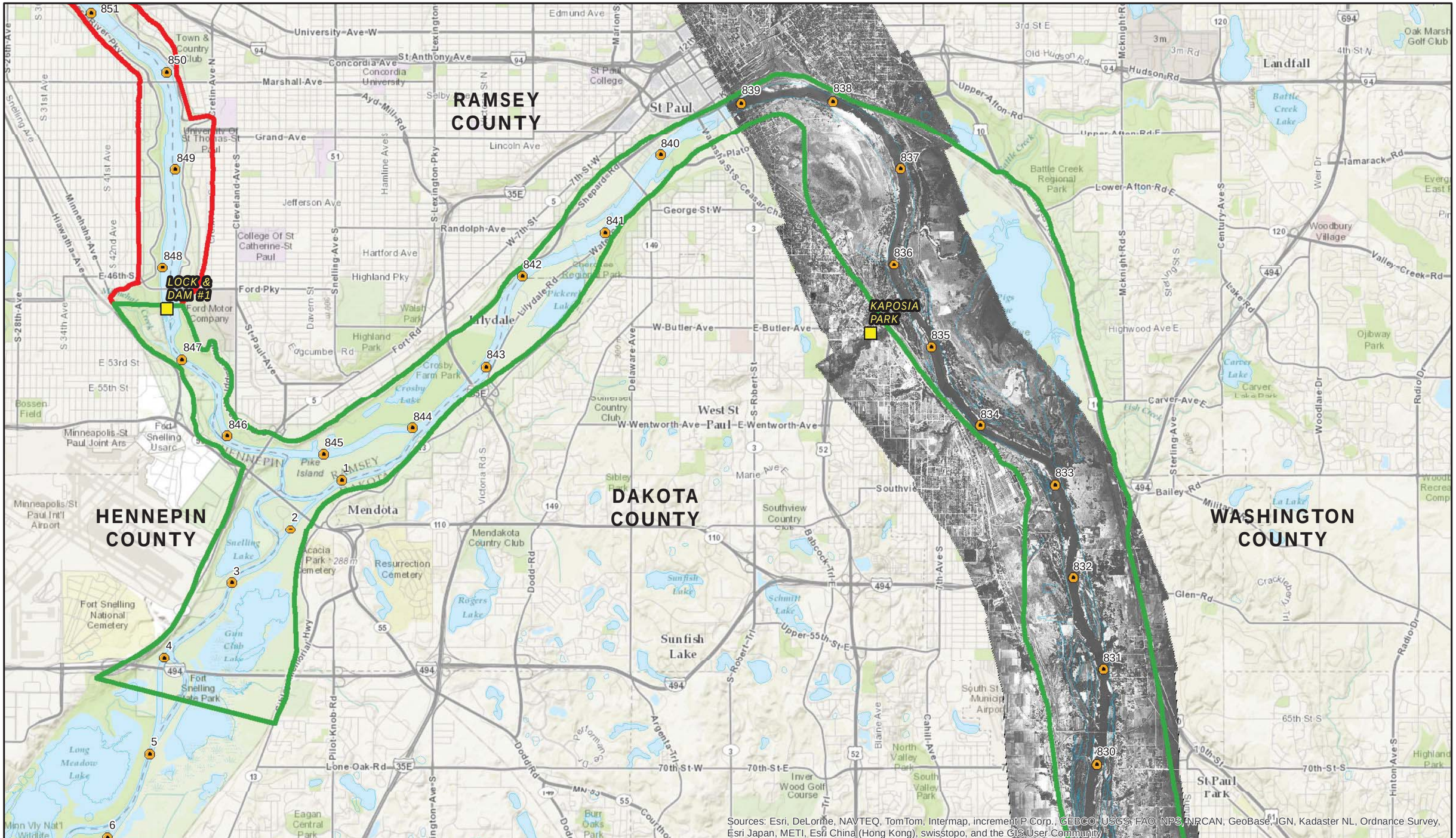


US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

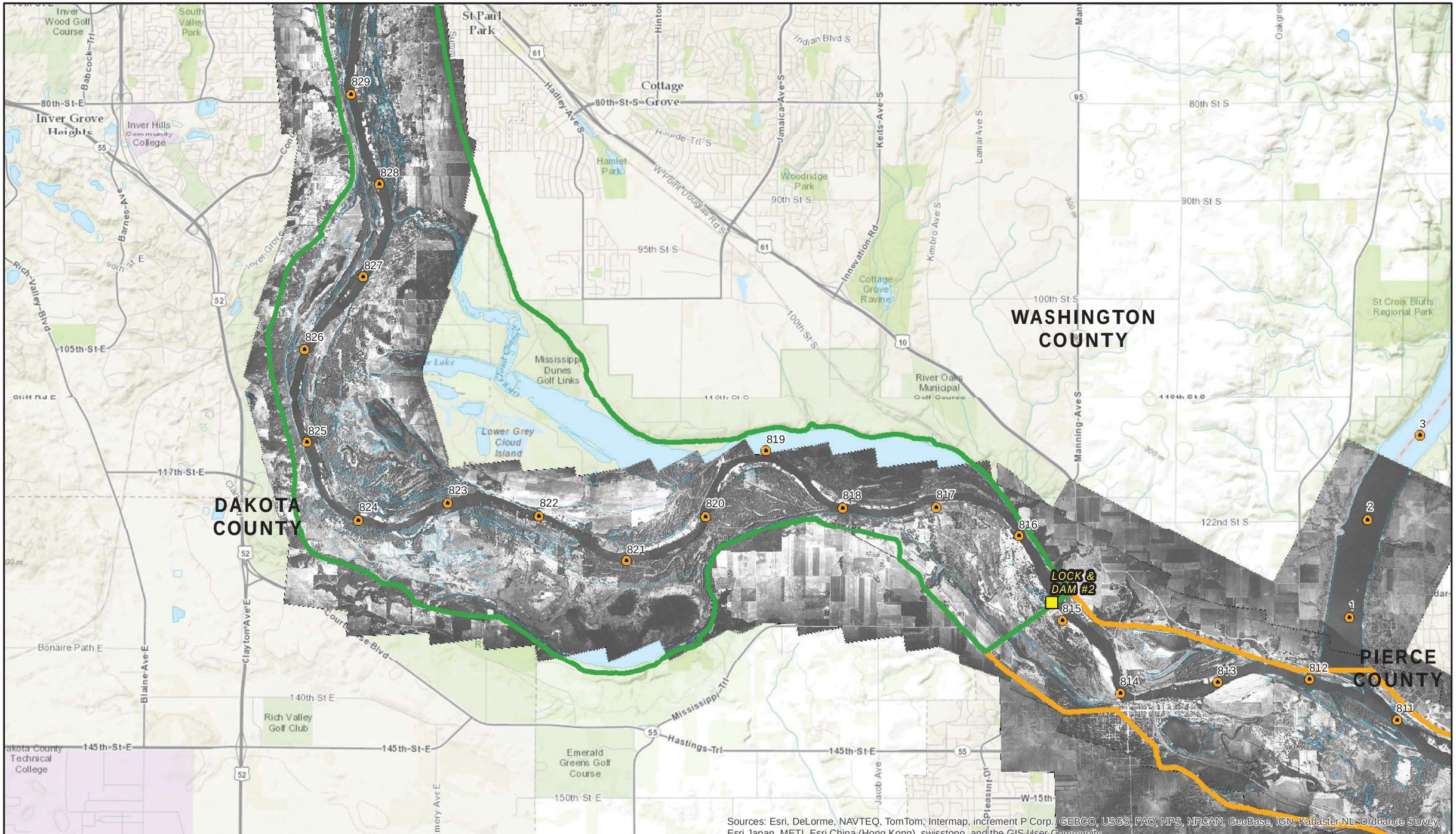
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_I_1920s_30s_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

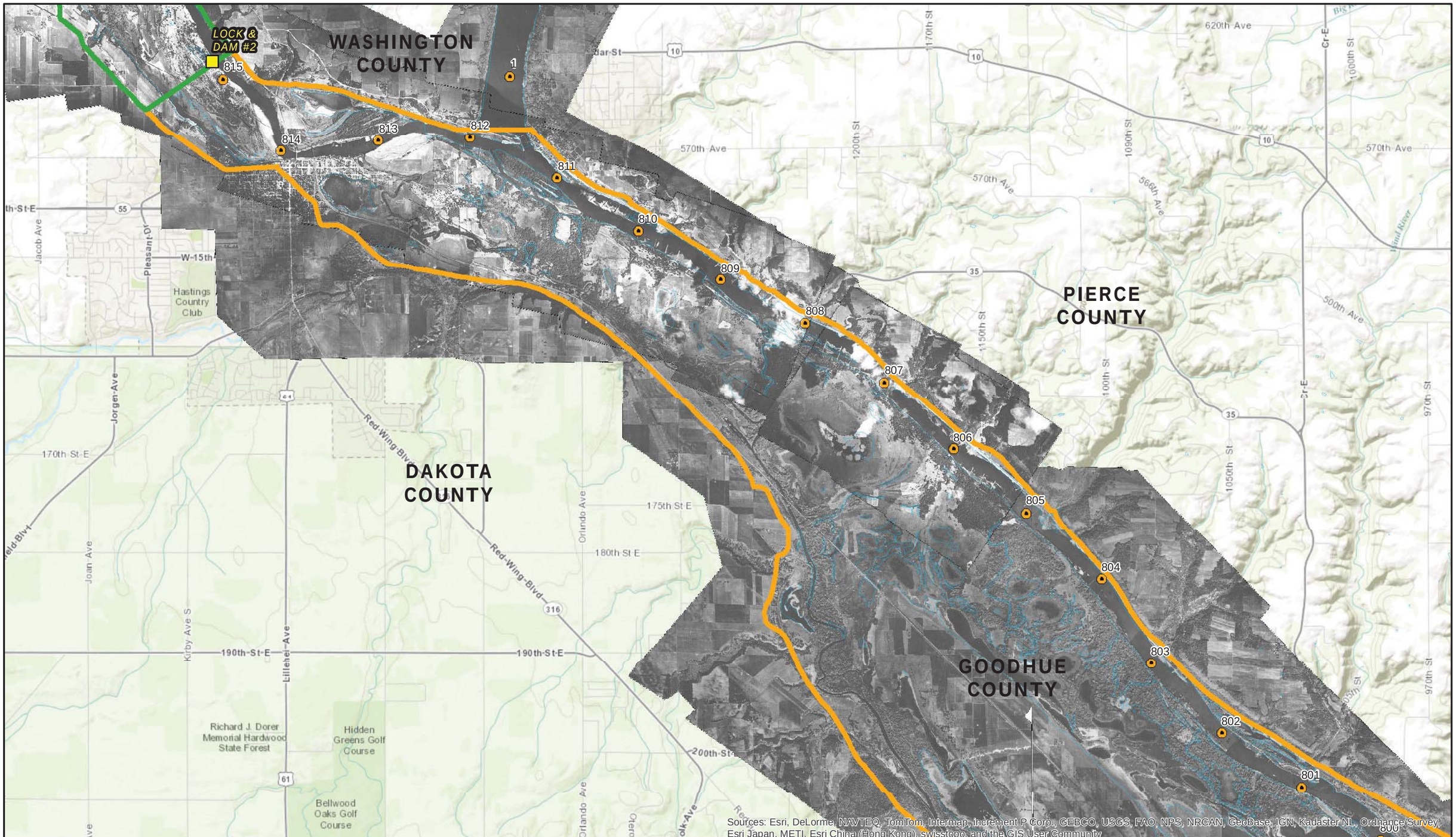
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_I_1920s_30s_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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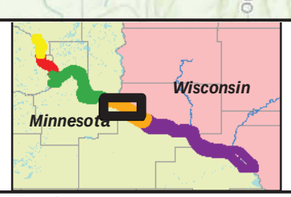
0 0.5 1
Miles

Map 11x17 Landscape



Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

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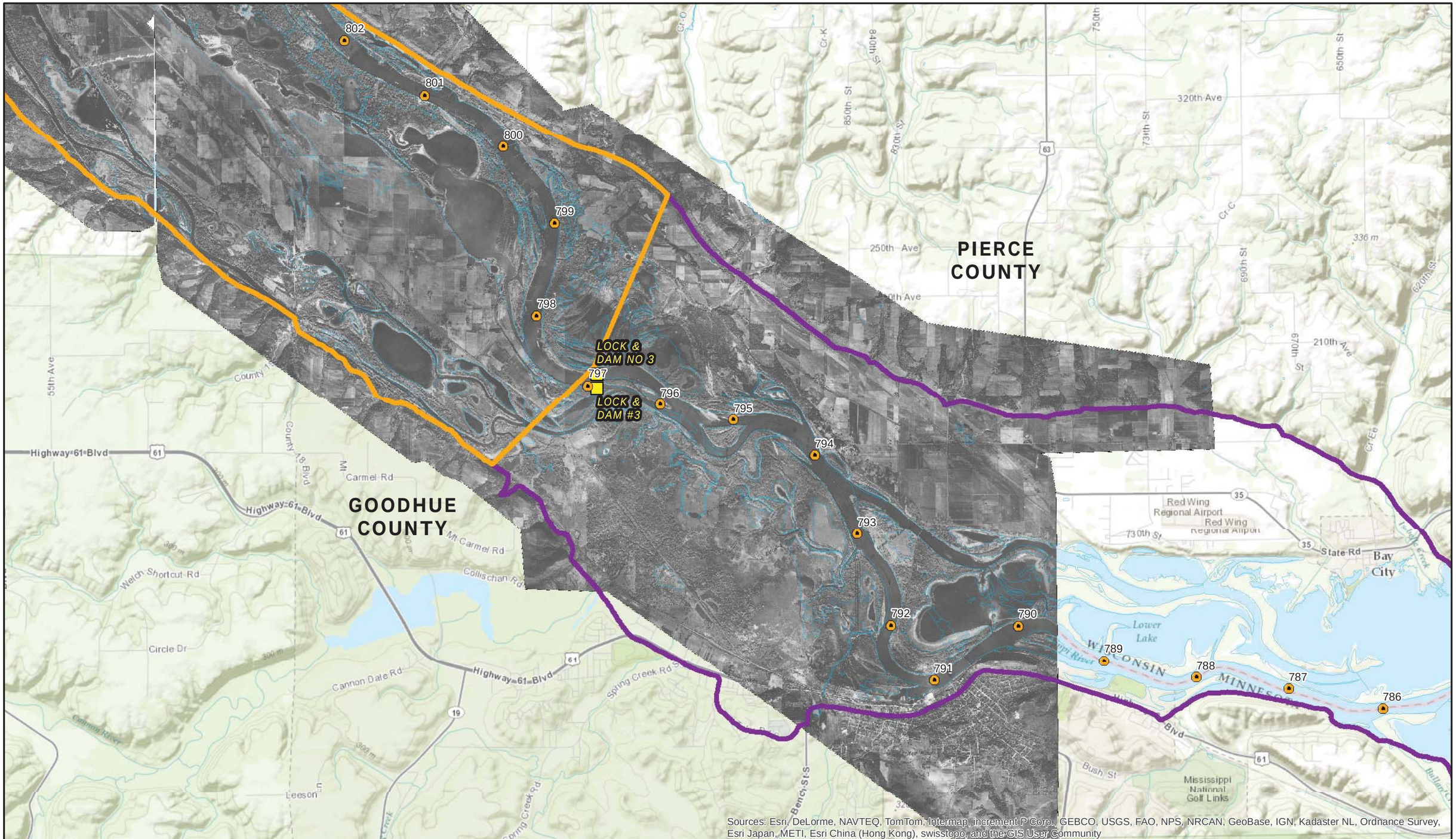

US Army Corps of Engineers

HDR

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0 0.5 1
Miles

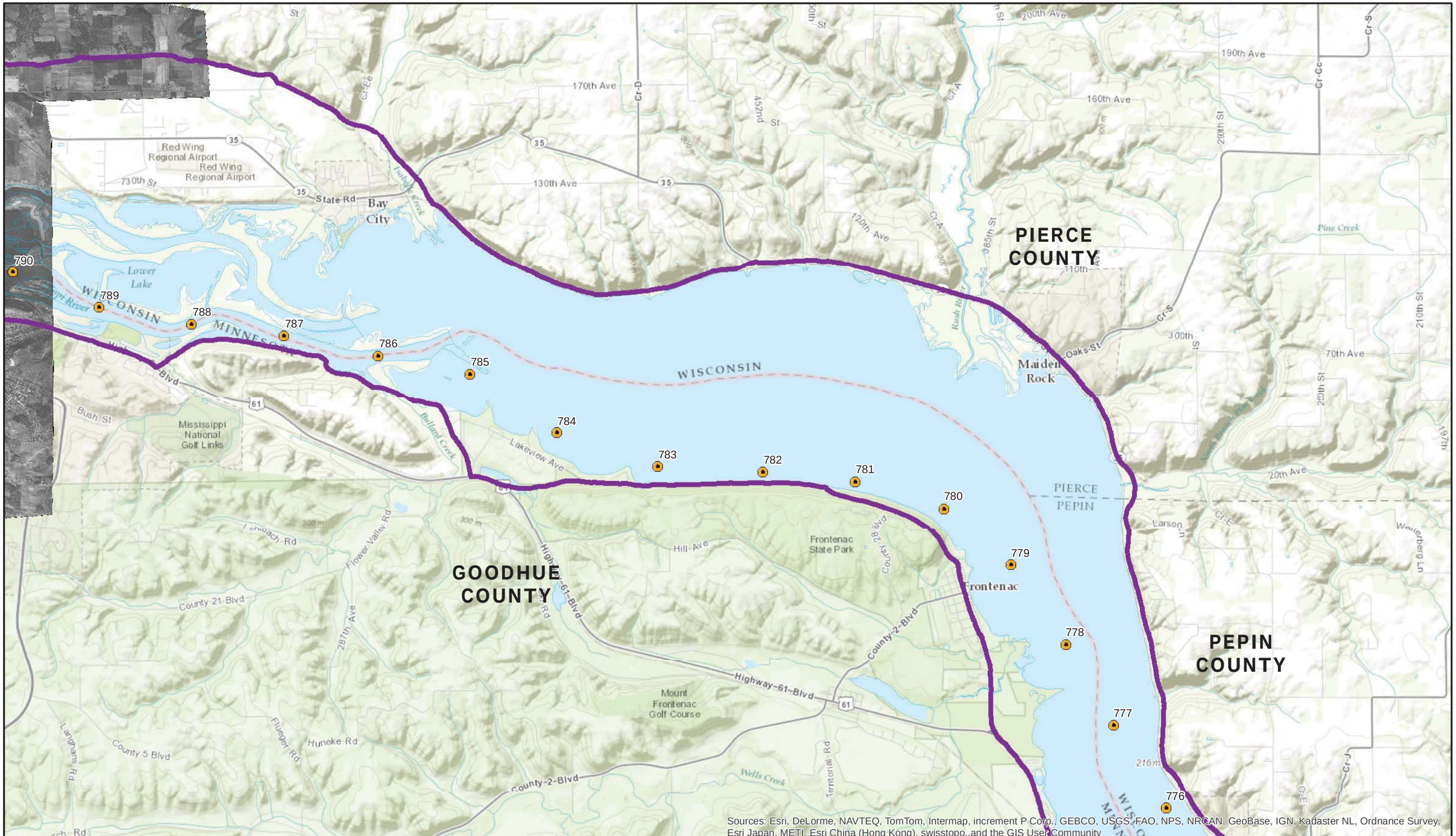
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_I_1920s_30s_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

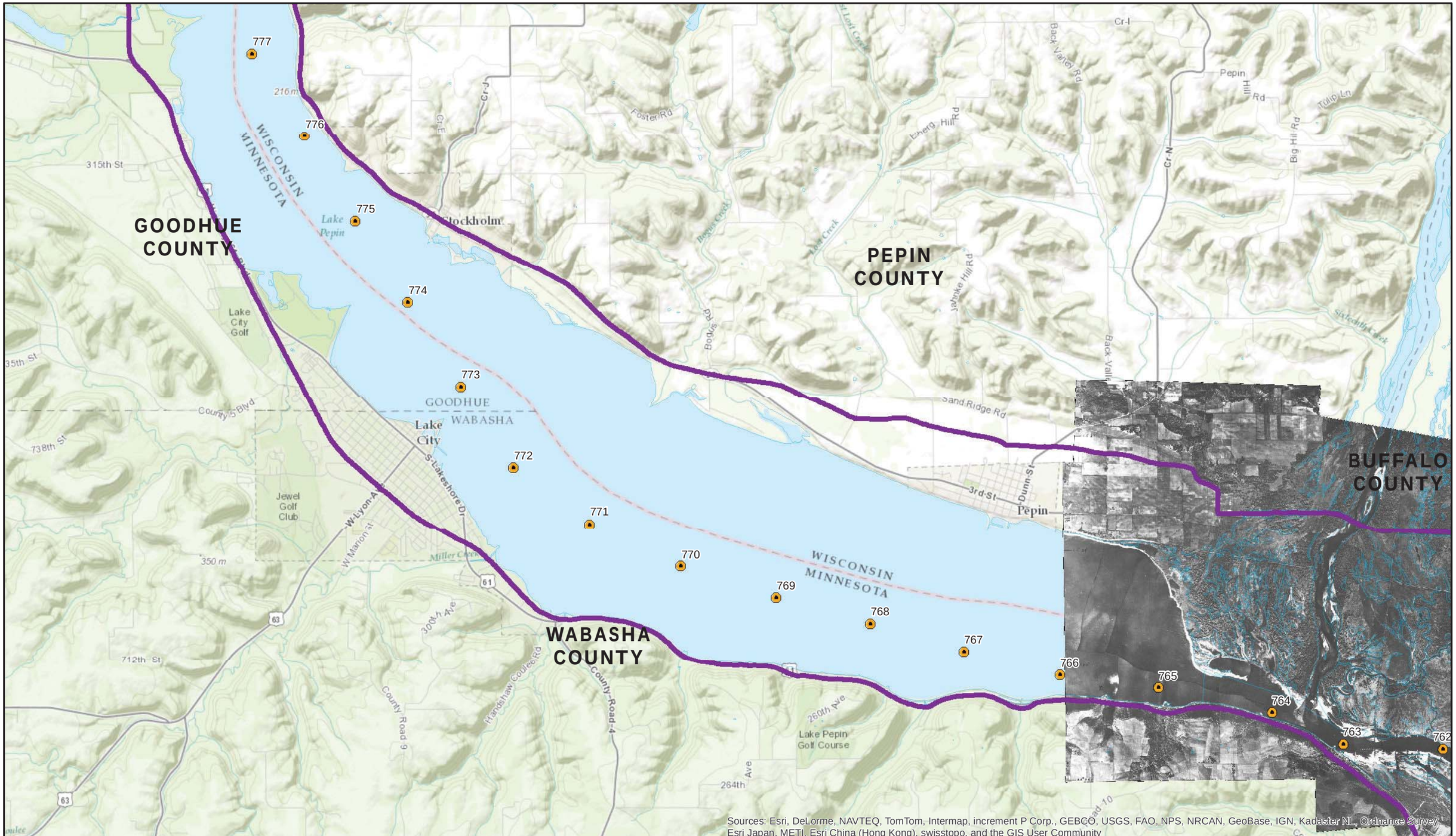
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_I_1920s_30s_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

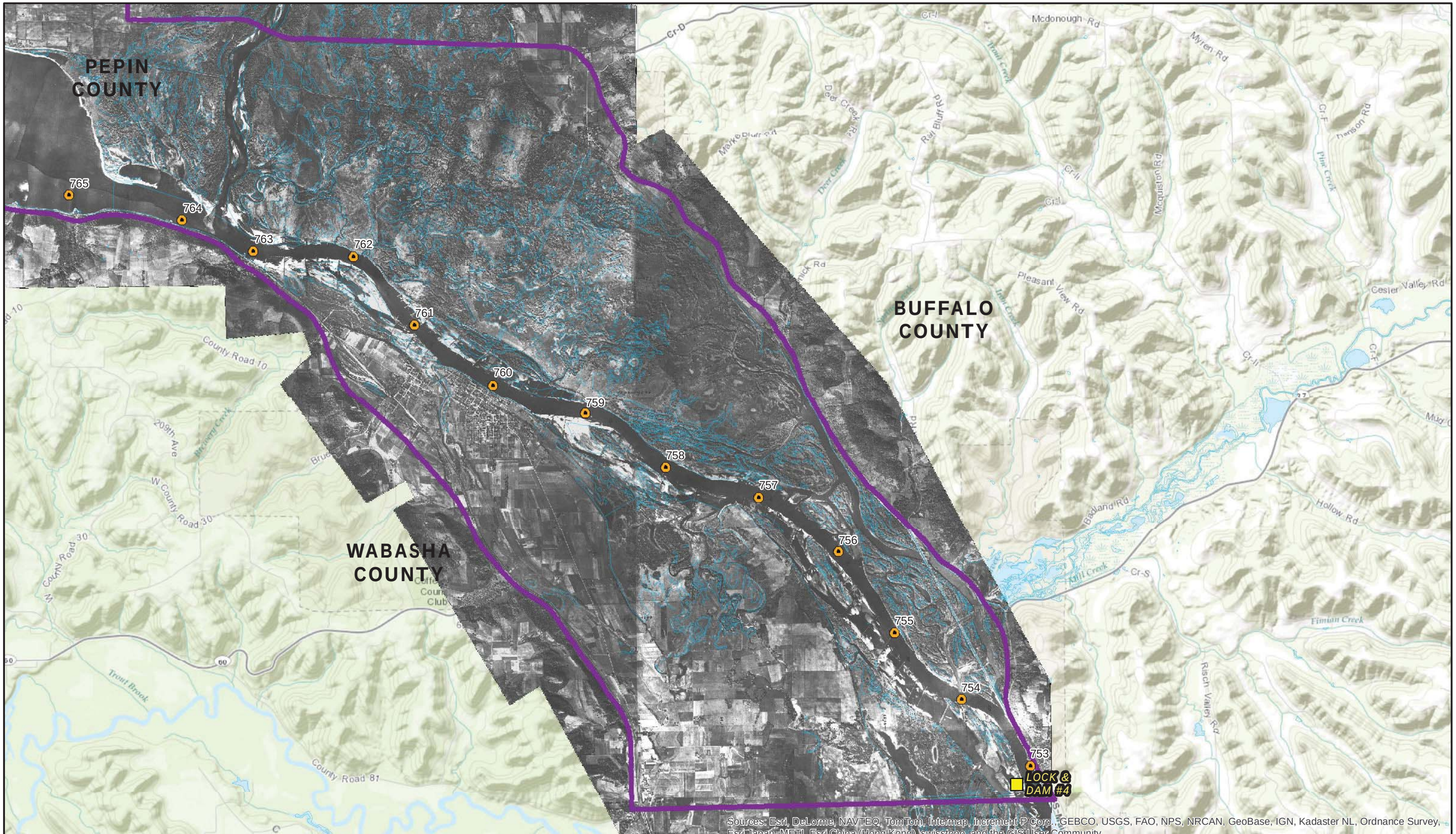
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_I_1920s_30s_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

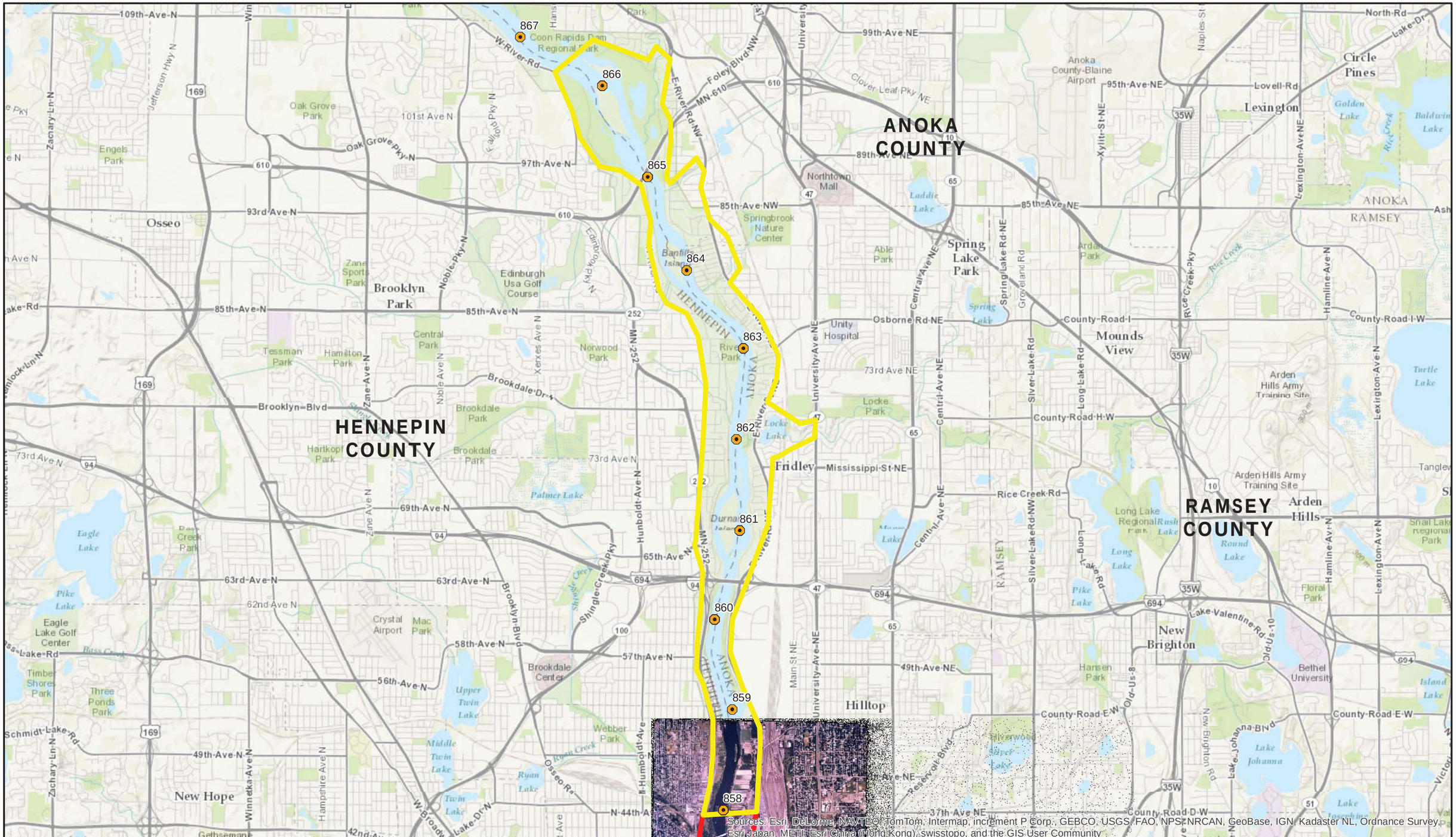
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix I - 1920s and 1930s Aerial Photography
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_I_1920s_30s_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

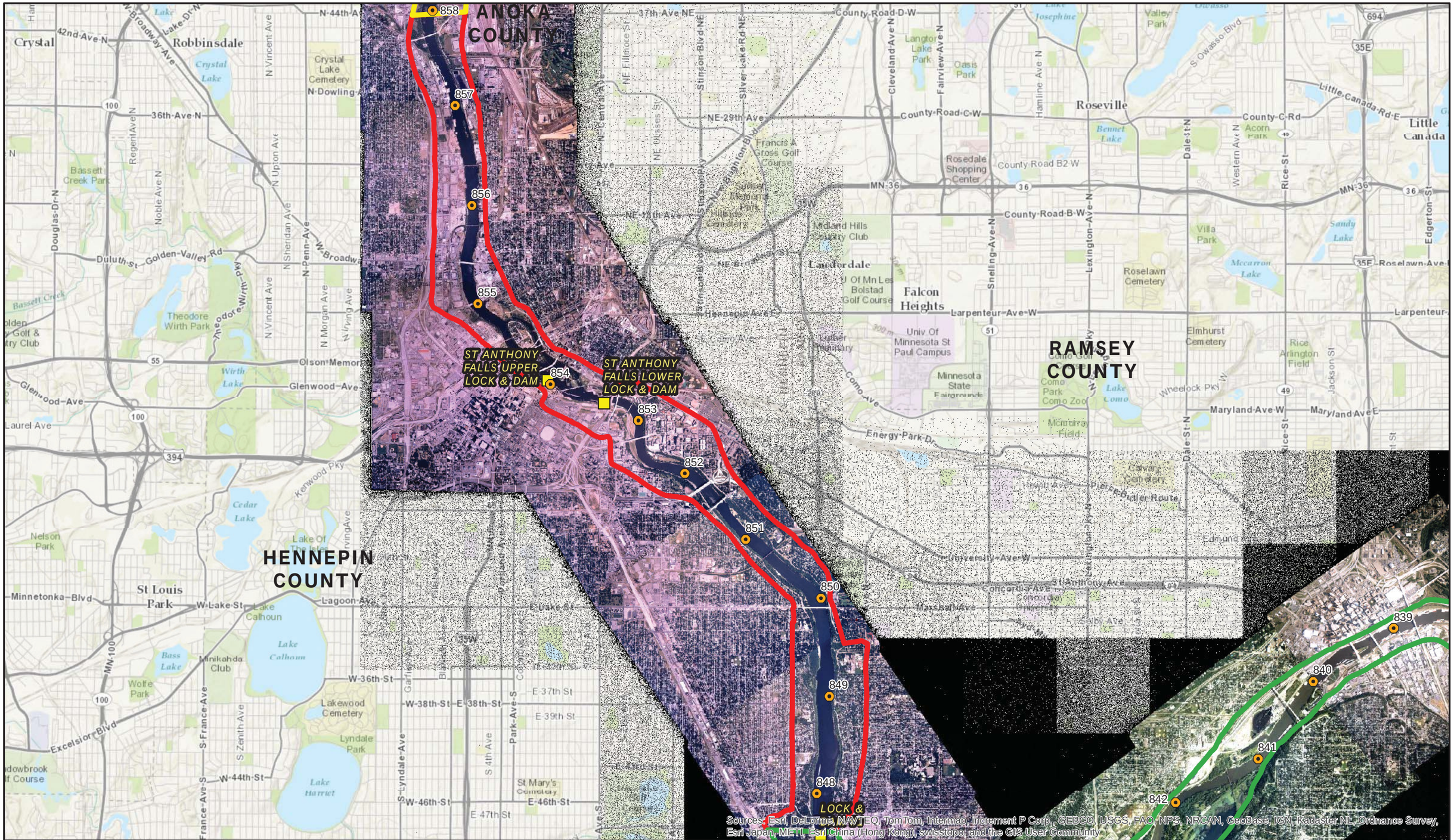
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

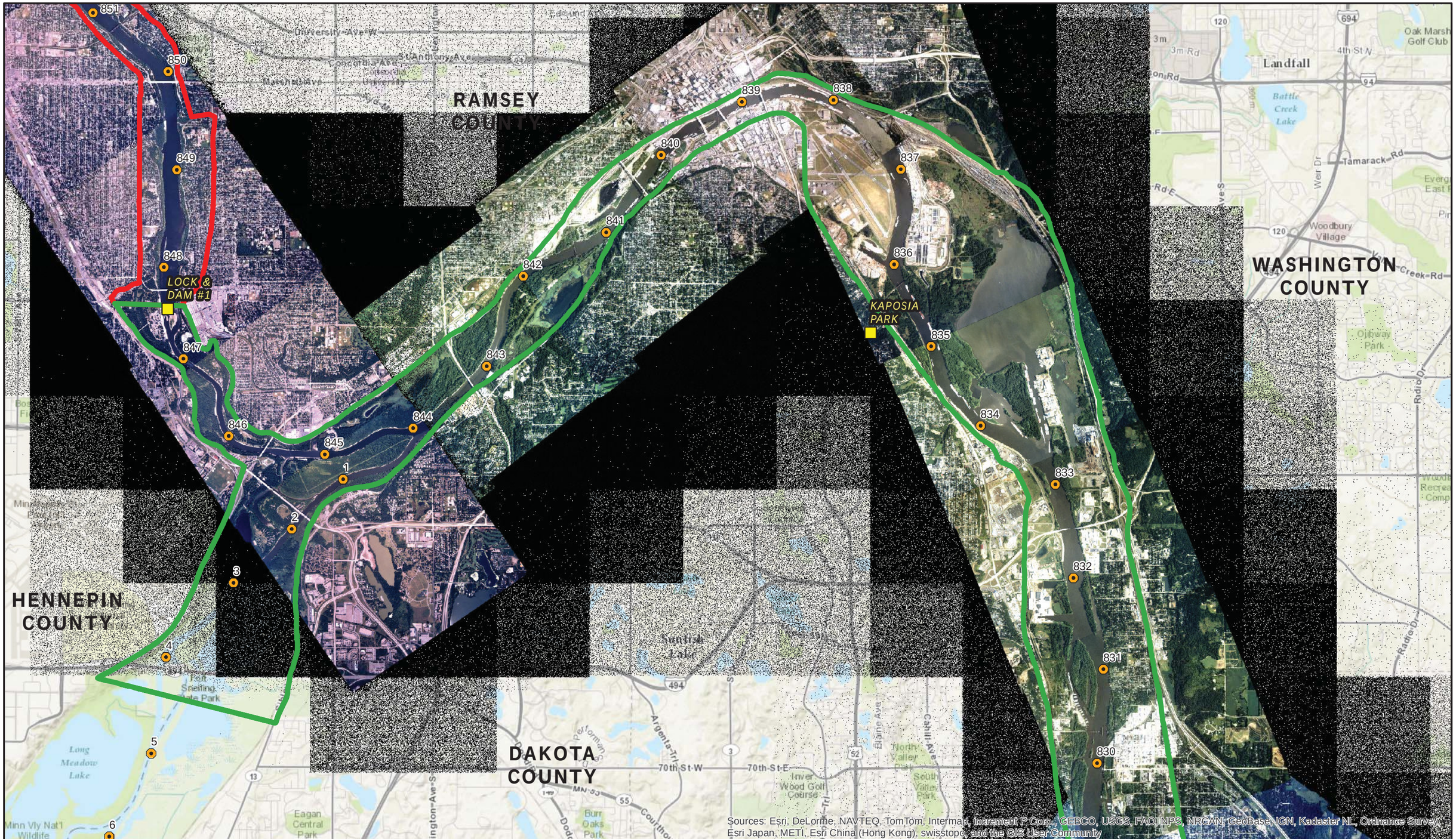
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

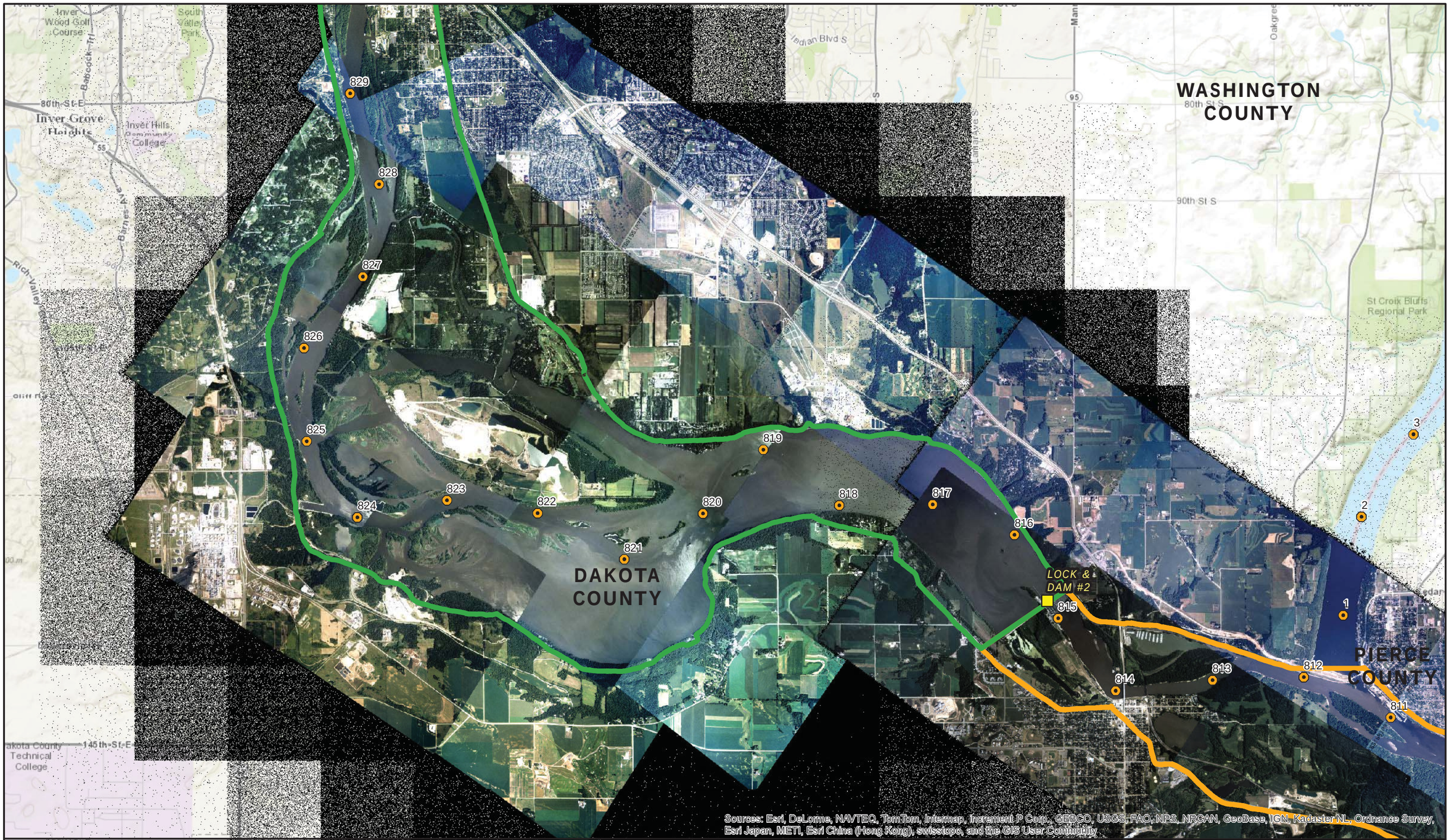
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

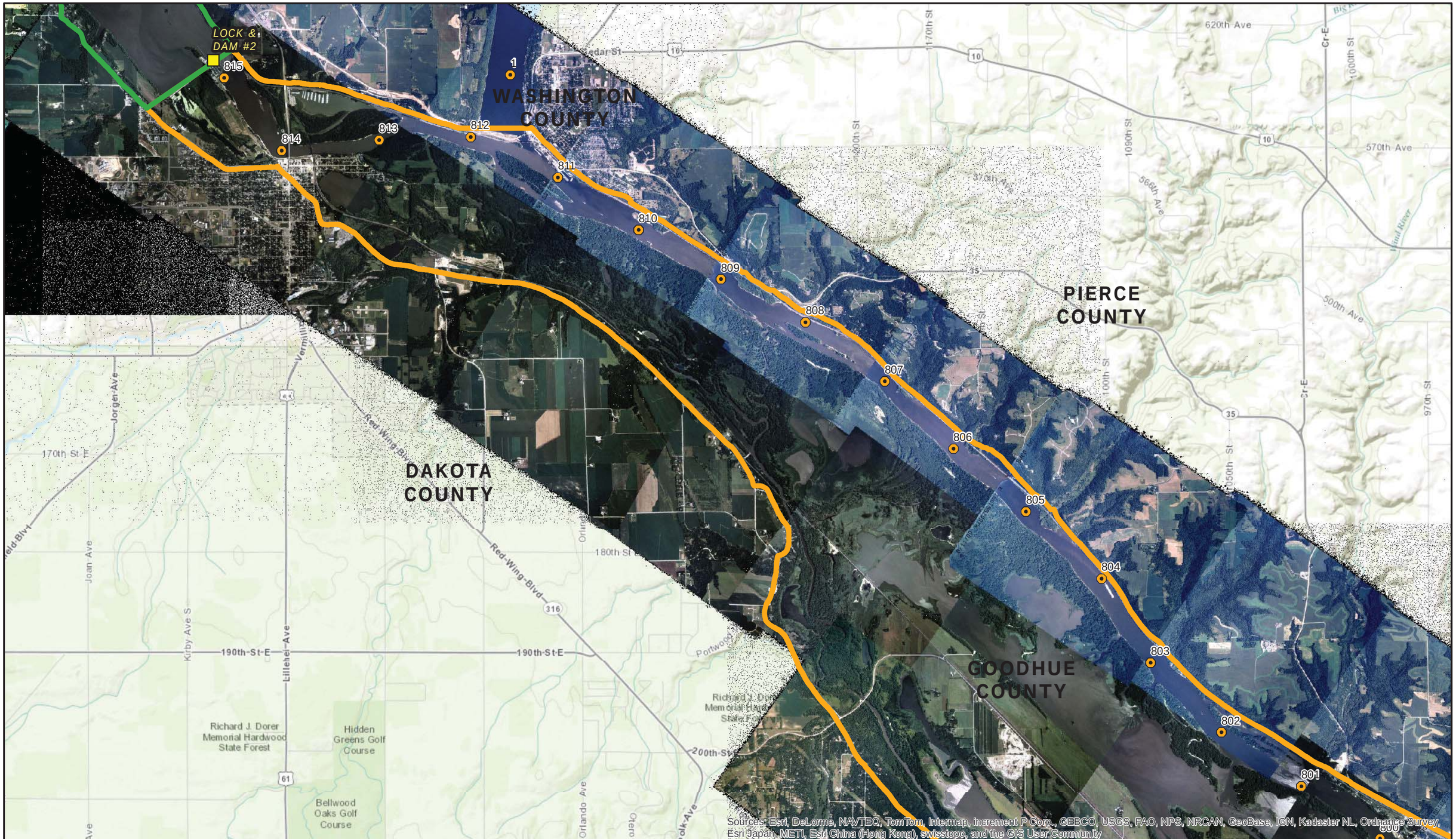
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

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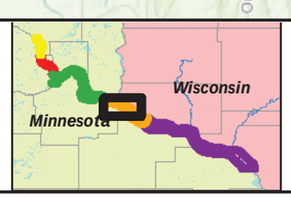
Miles

Map 11x17 Landscape

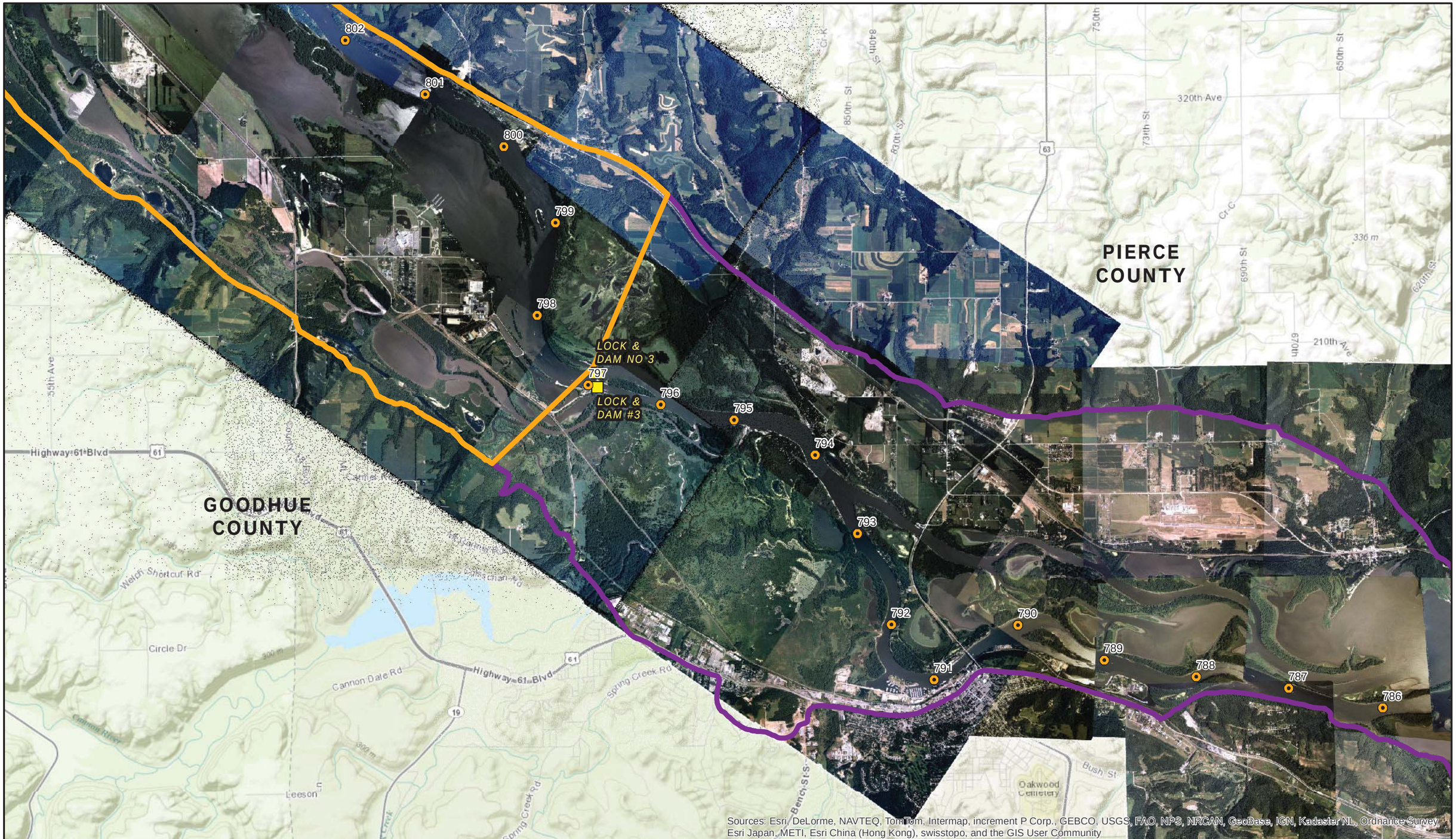


Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

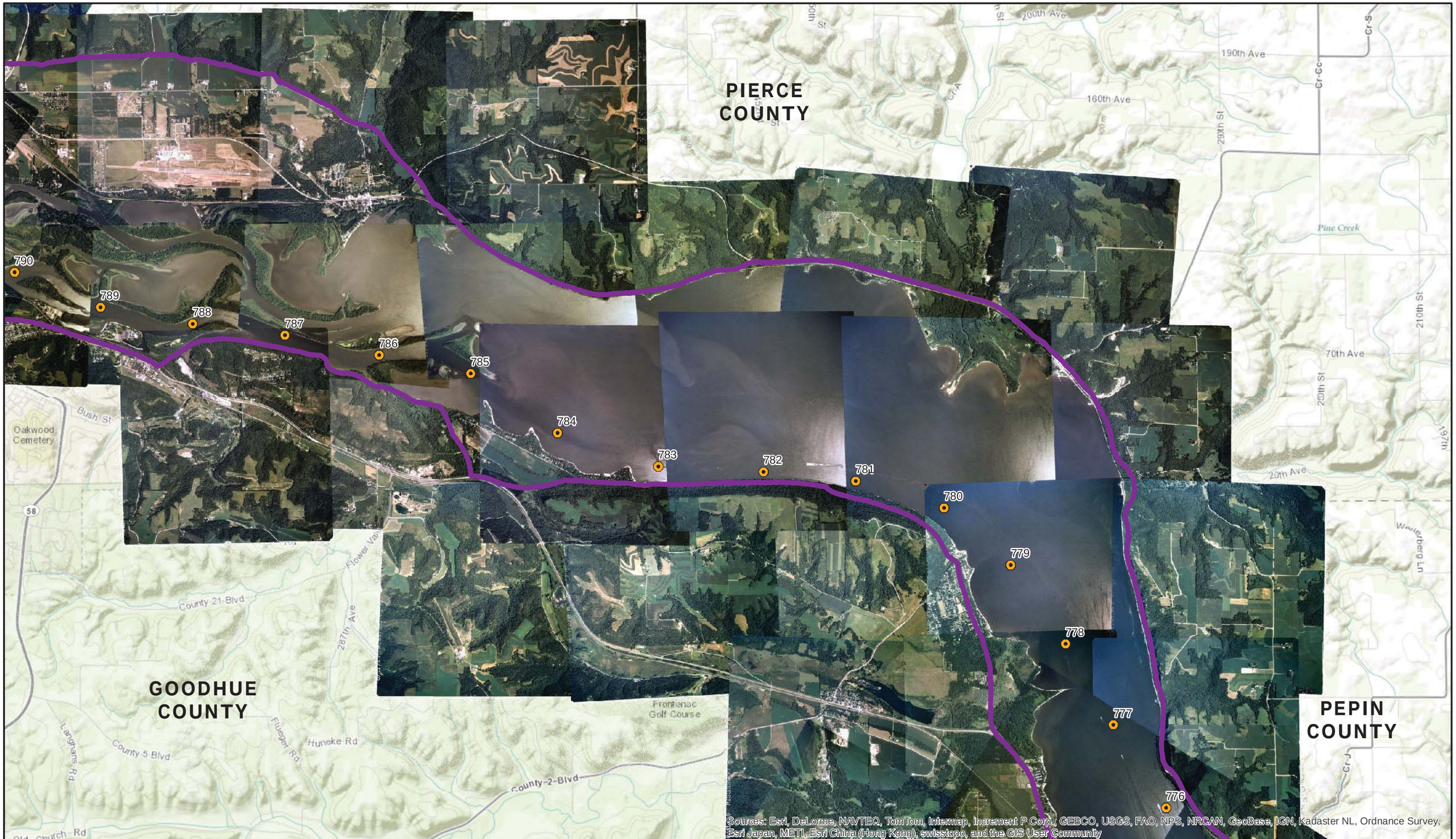
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

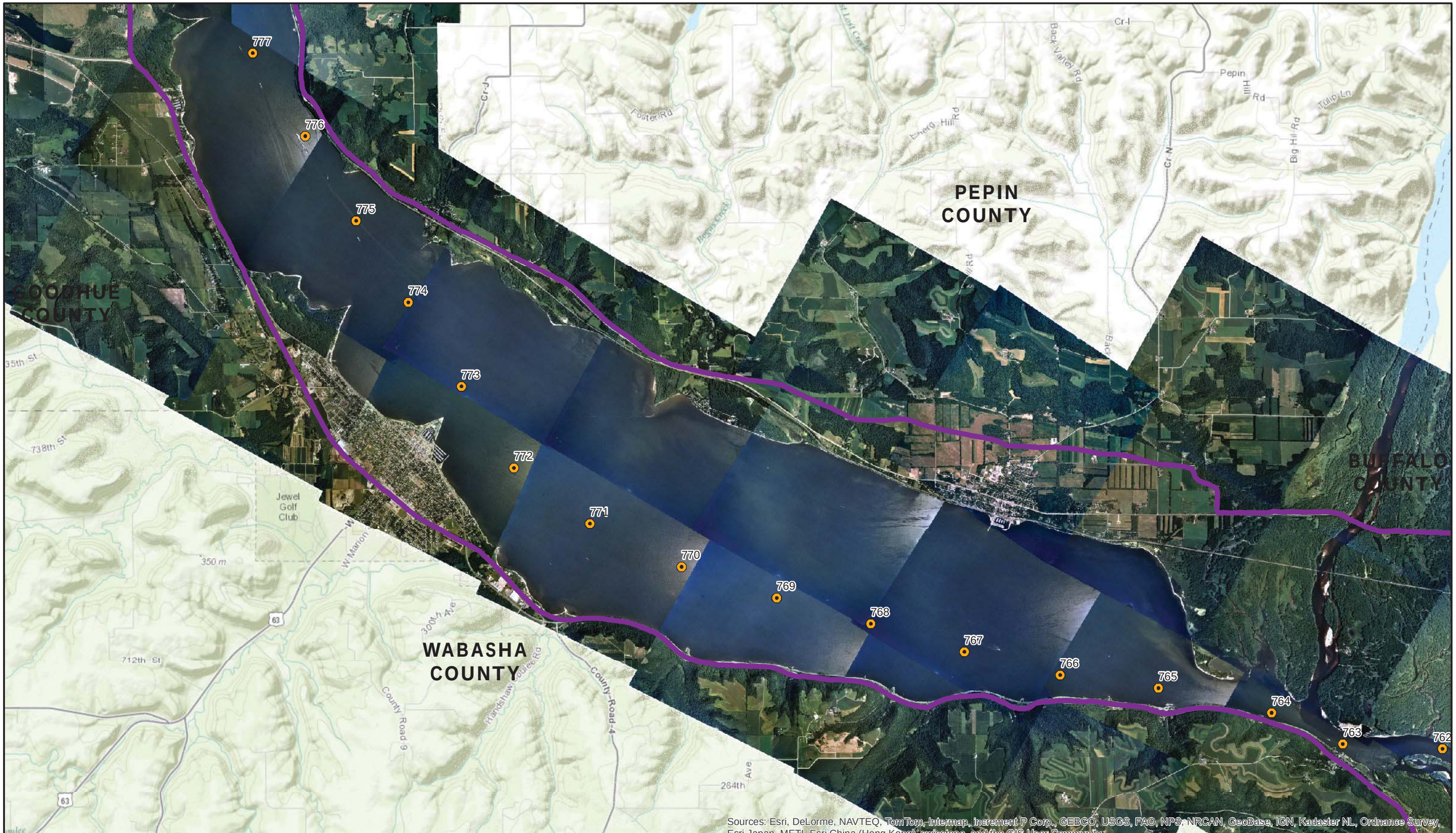
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

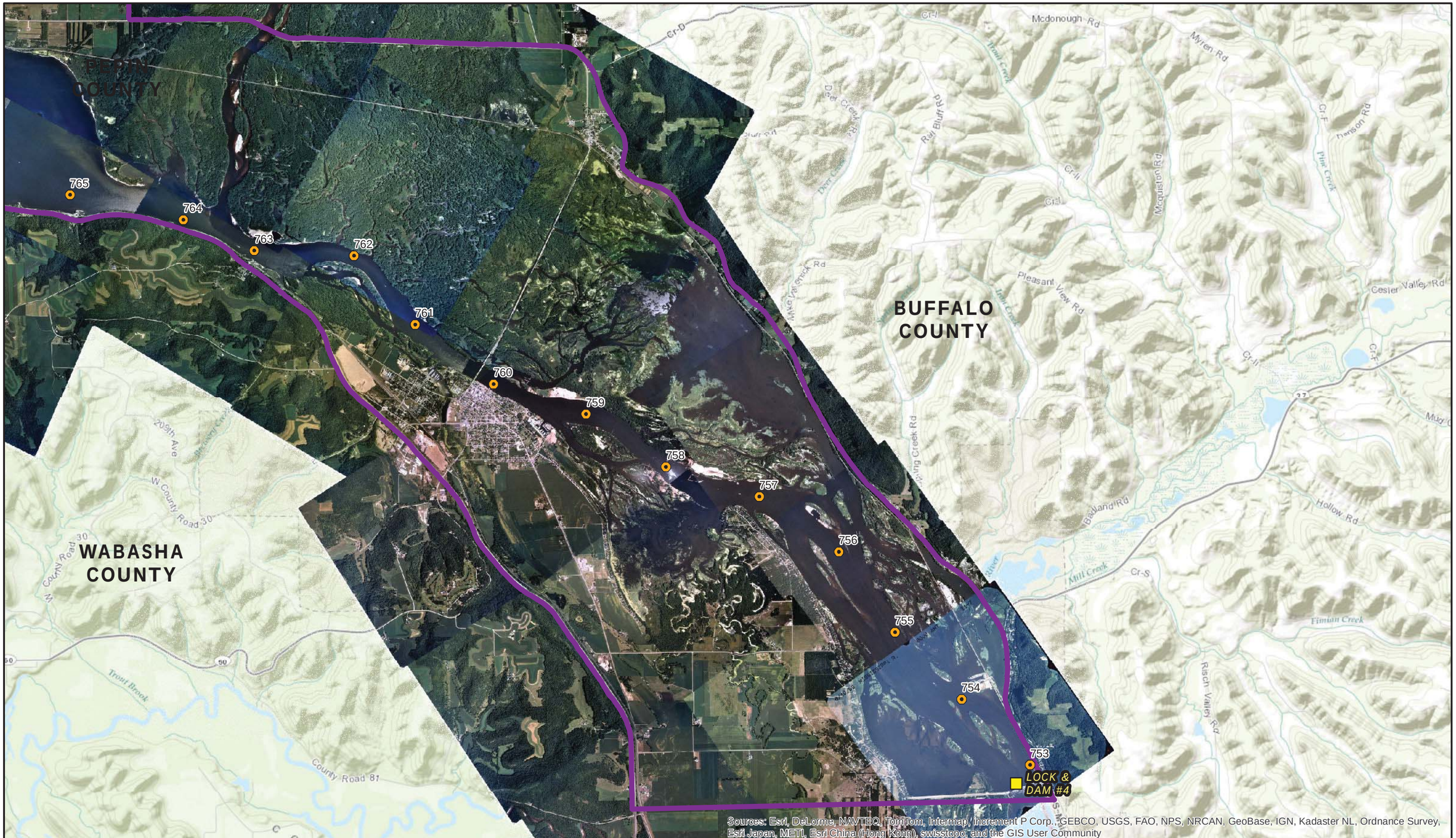
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

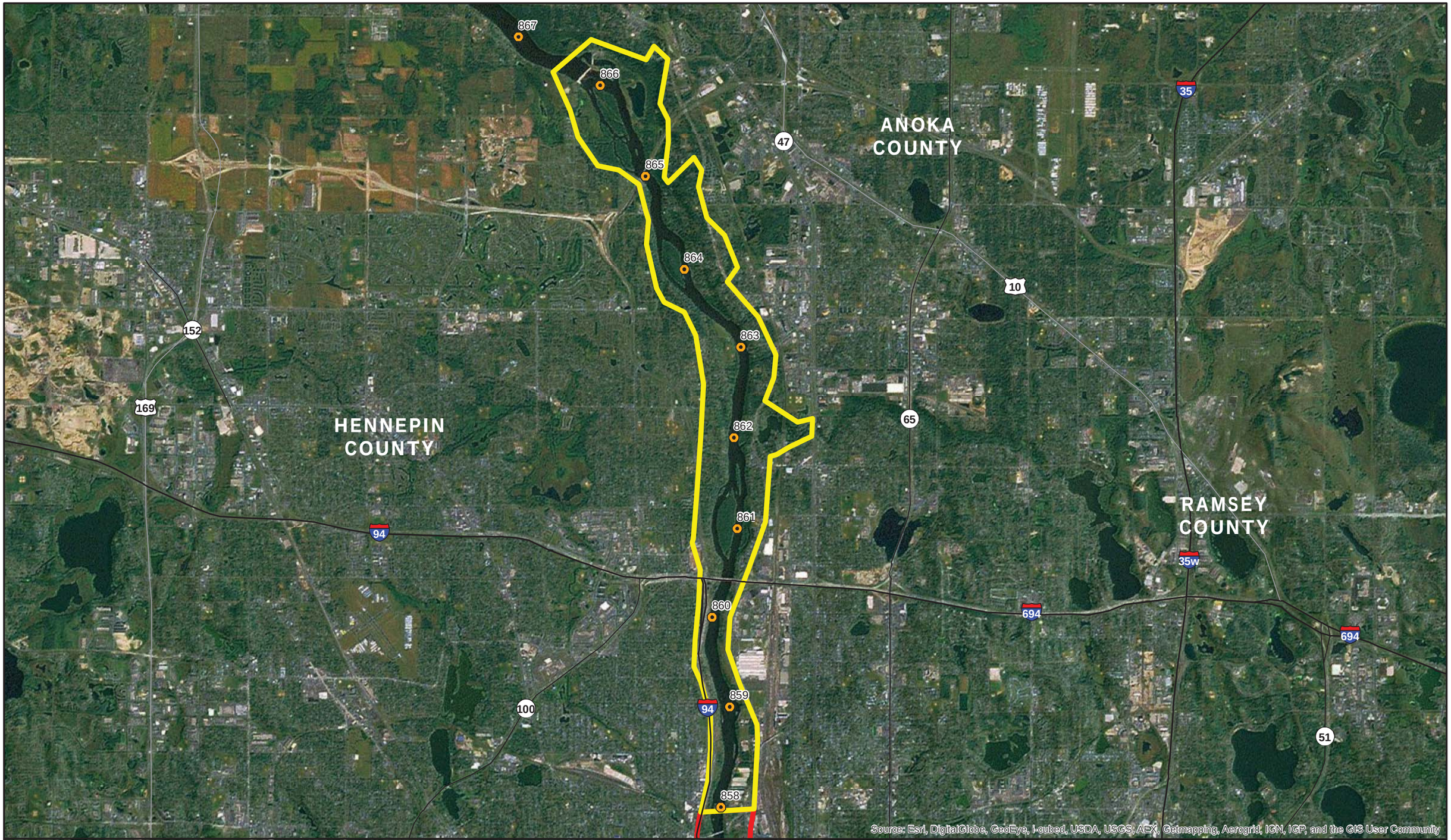
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix J - 2000 True Color Aerial Photography
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_J_2000_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd

ANOKA COUNTY

HENNEPIN COUNTY

RAMSEY COUNTY

DAKOTA COUNTY

ST ANTHONY FALLS UPPER LOCK & DAM

ST ANTHONY FALLS LOWER LOCK & DAM

LOCK & DAM #1

858 857 856 855 854 853 852 851 850 849 848 839 840 841 842

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

US Army Corps of Engineers

HDR

N

0 0.5 1

Miles

Map 11x17 Landscape

Minnesota

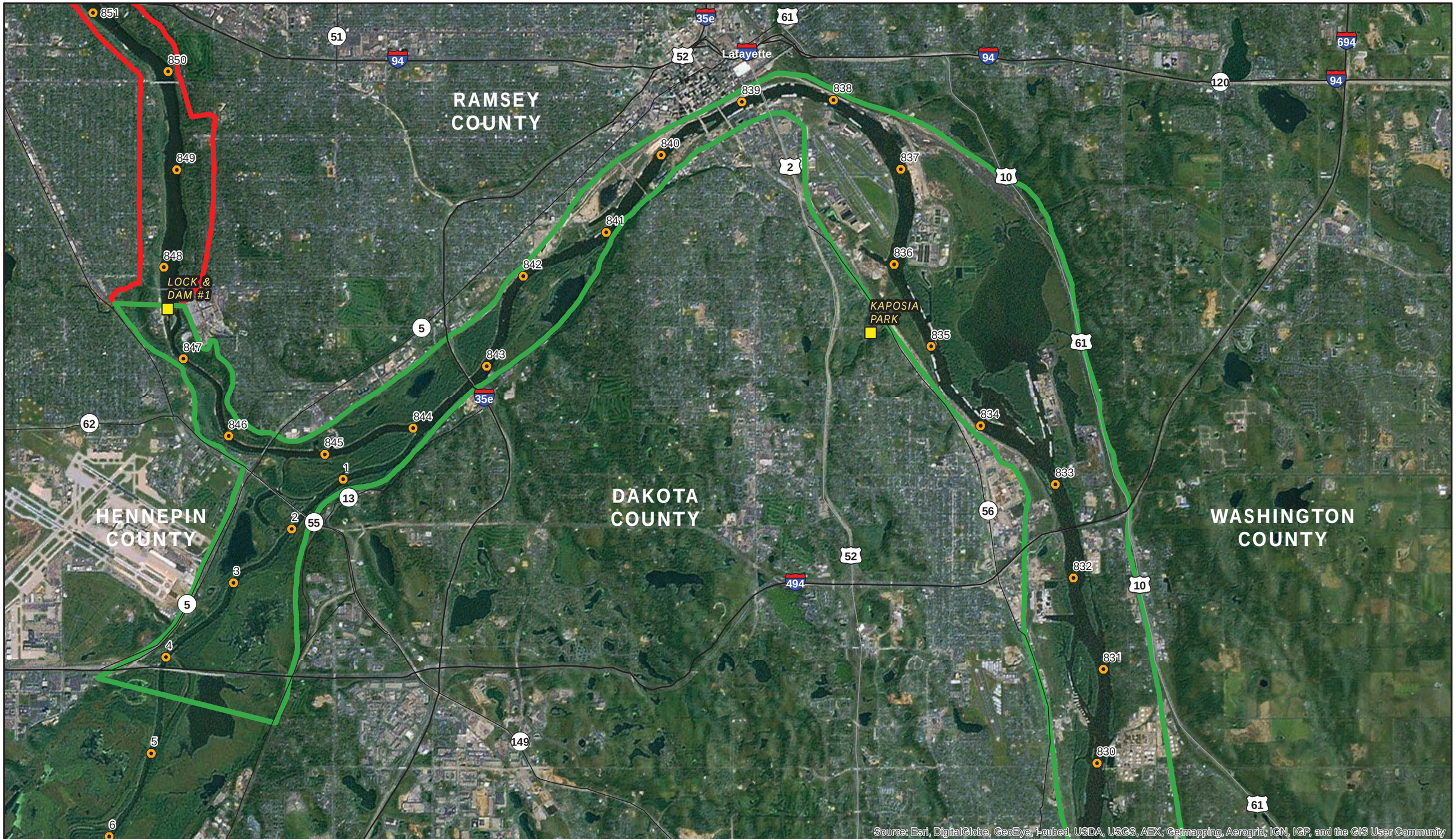
Wisconsin

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd



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US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

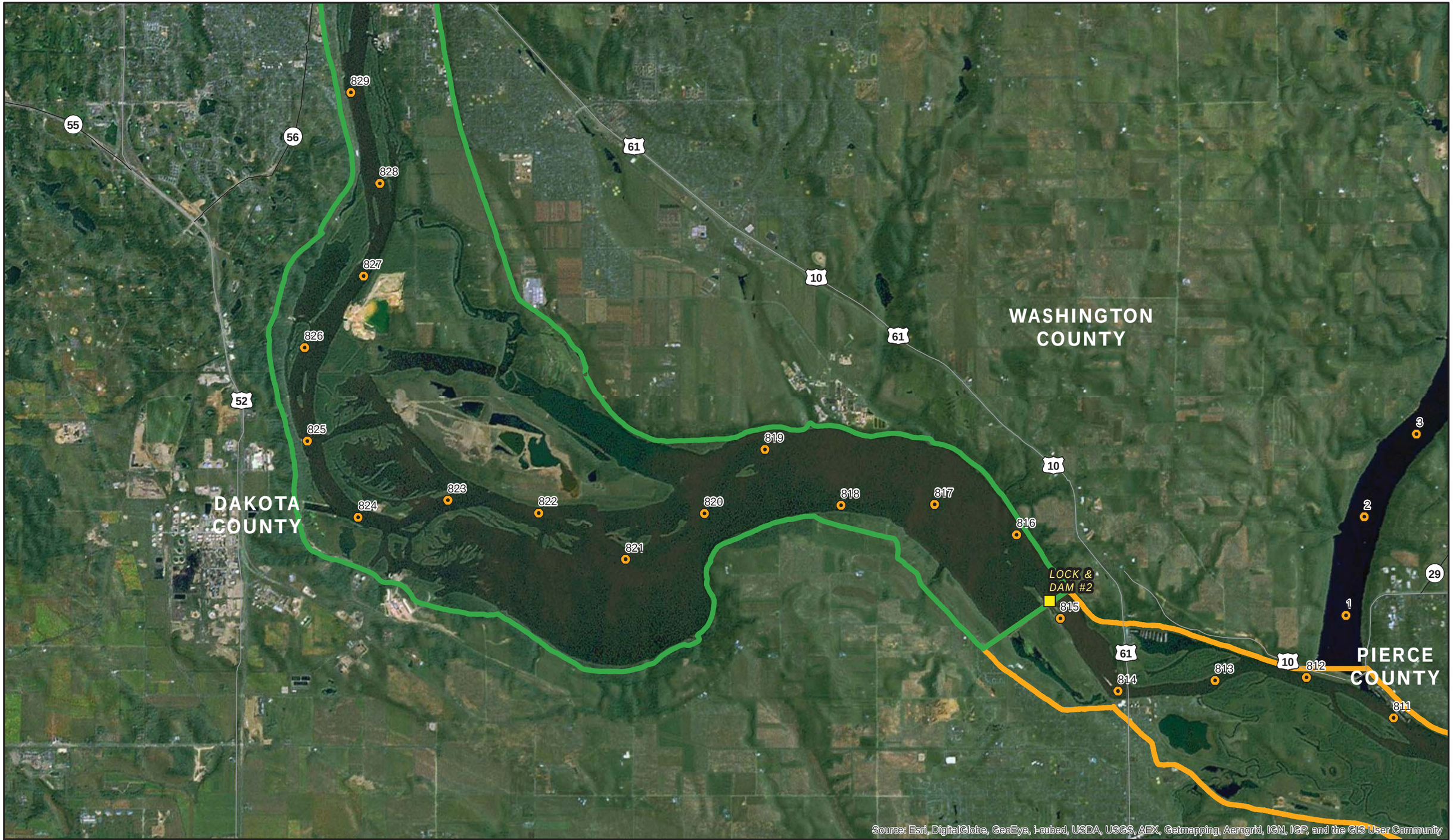
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd

US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

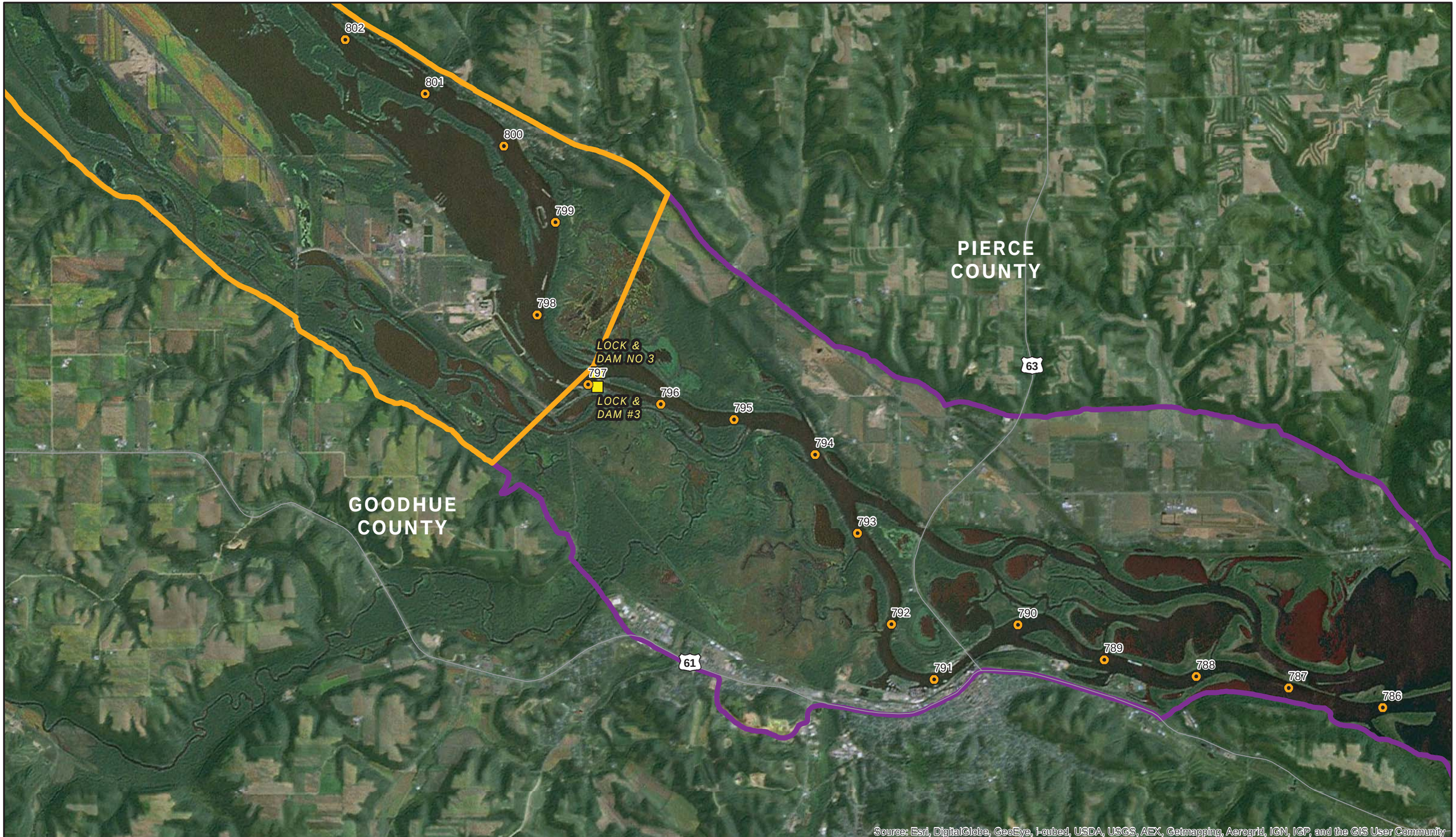
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

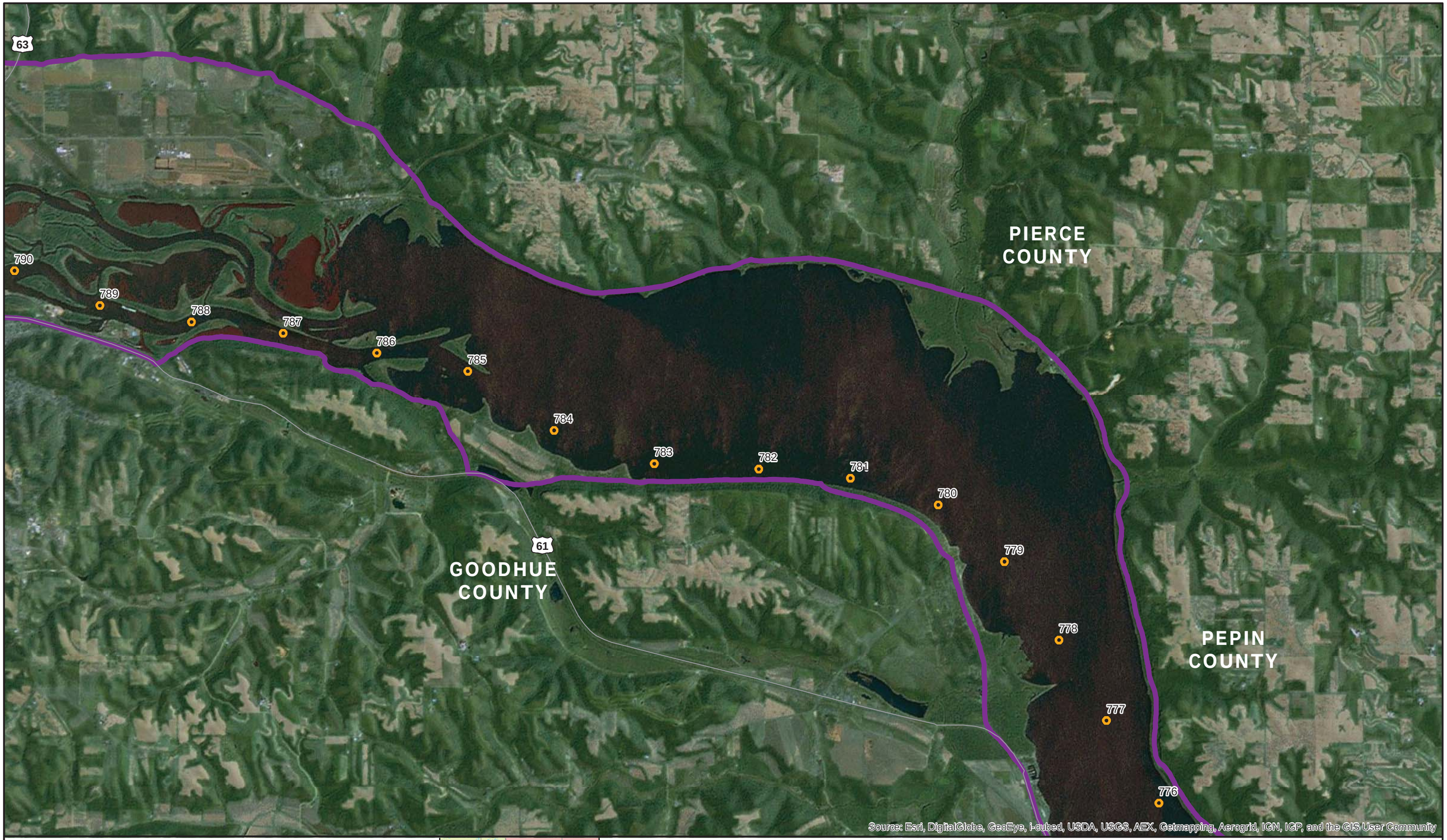
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

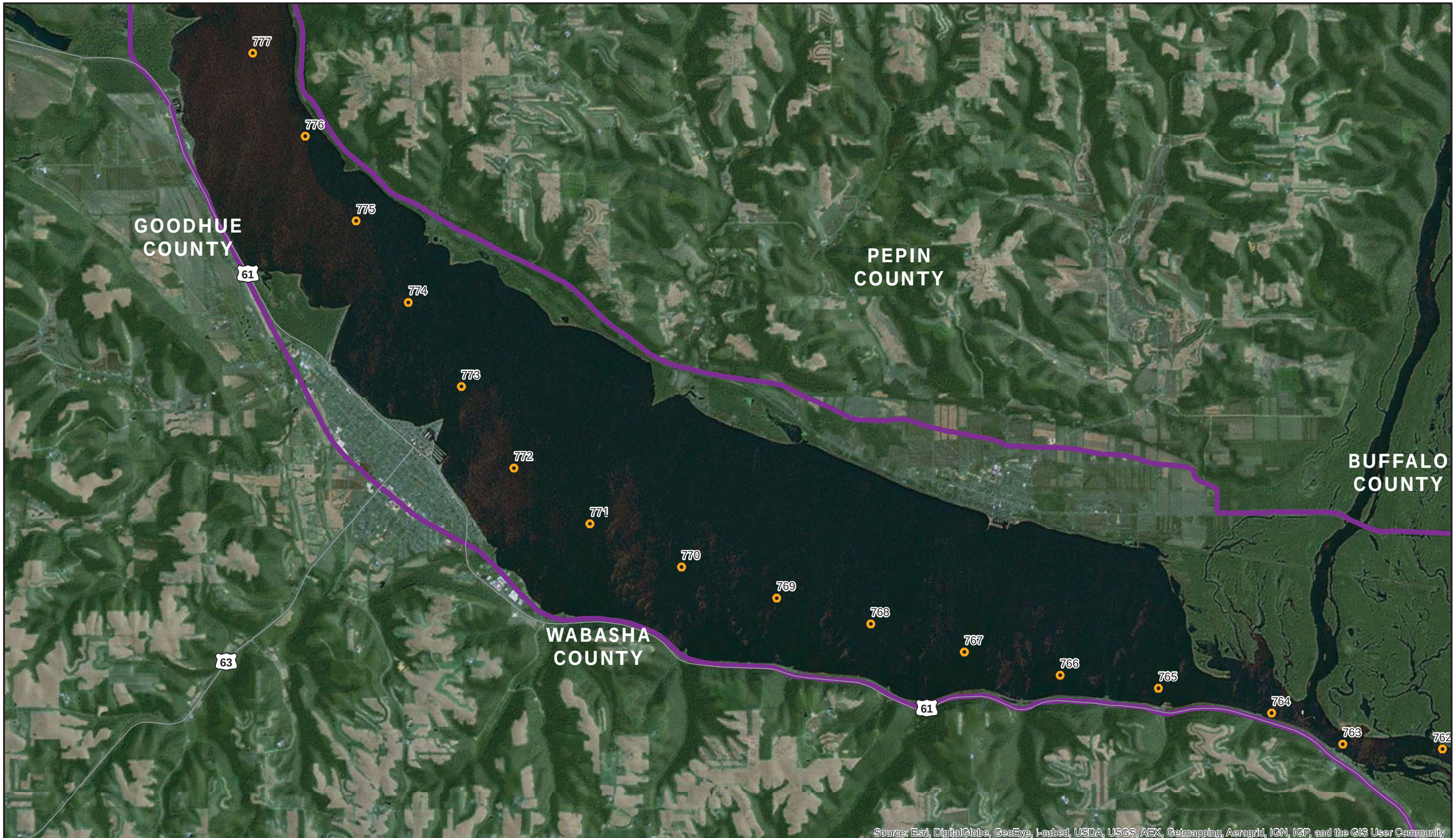
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd

PEPIN COUNTY

BUFFALO COUNTY

WABASHA COUNTY

765
764
763
762
761
760
759
758
757
756
755
754
753
LOCK & DAM #4
61

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

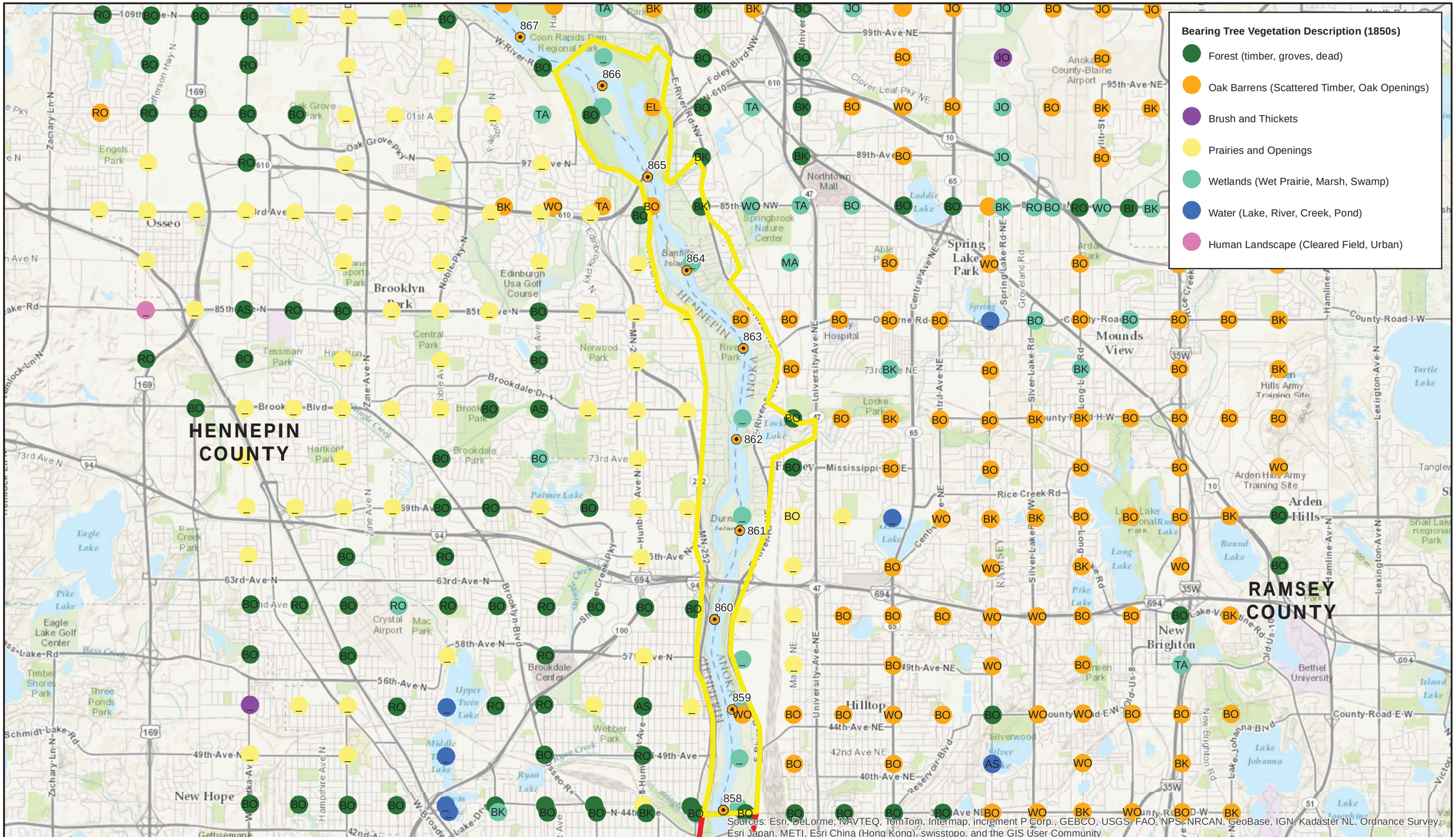
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix K - 2011 and 2012 Aerial Photography
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_K_2011_2012_Aerial Photography_11X17L.mxd



US Army Corps of Engineers

HDR

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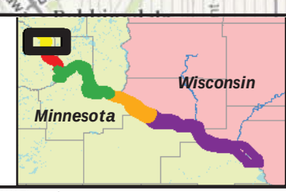
0 0.5 1
Miles

Map 11x17 Landscape

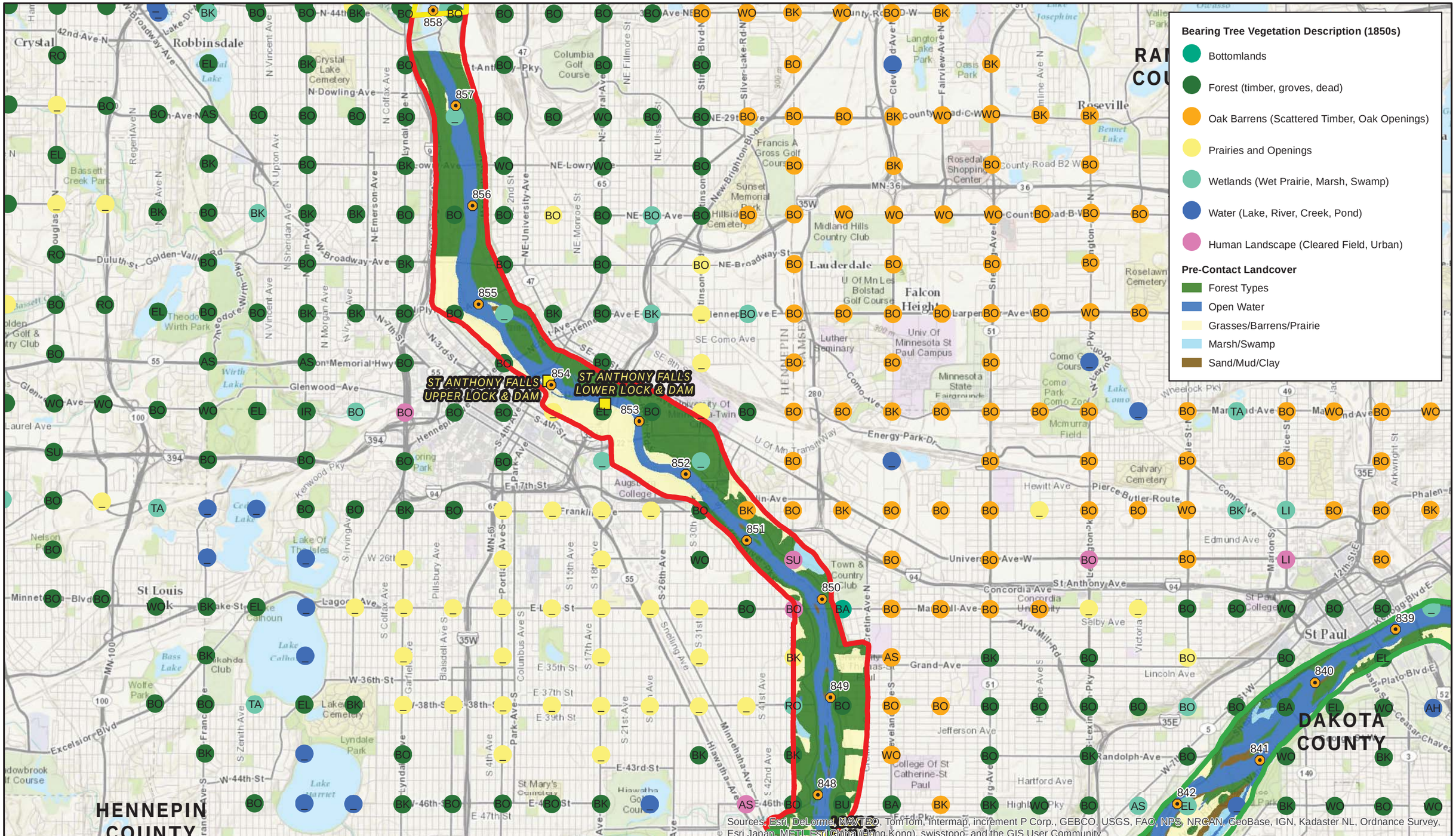


Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_L_GLO_Trees_Pre-Settlement LC_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

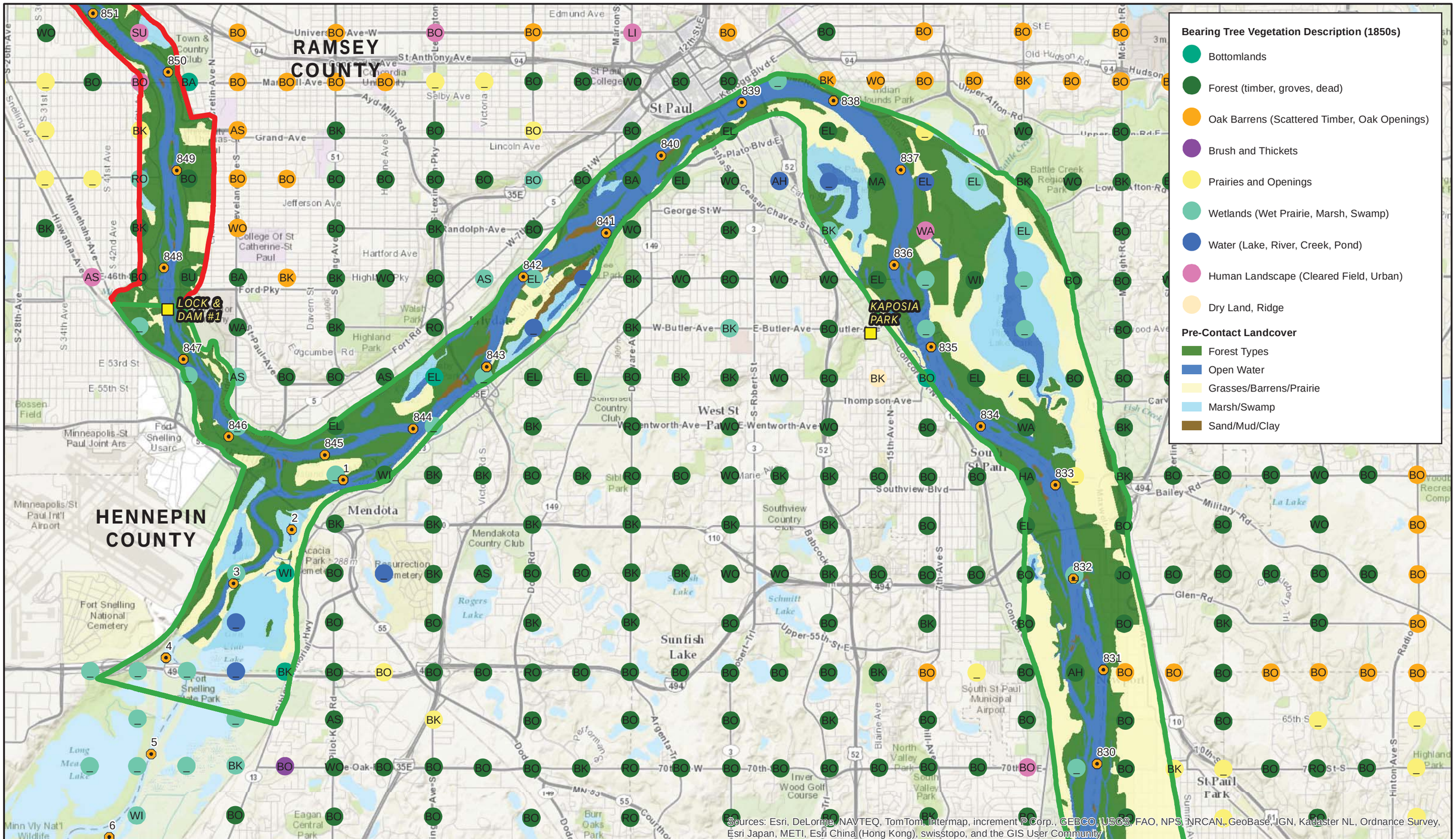
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_L_GLO_Trees_Pre-Settlement LC_11X17L.mxd



US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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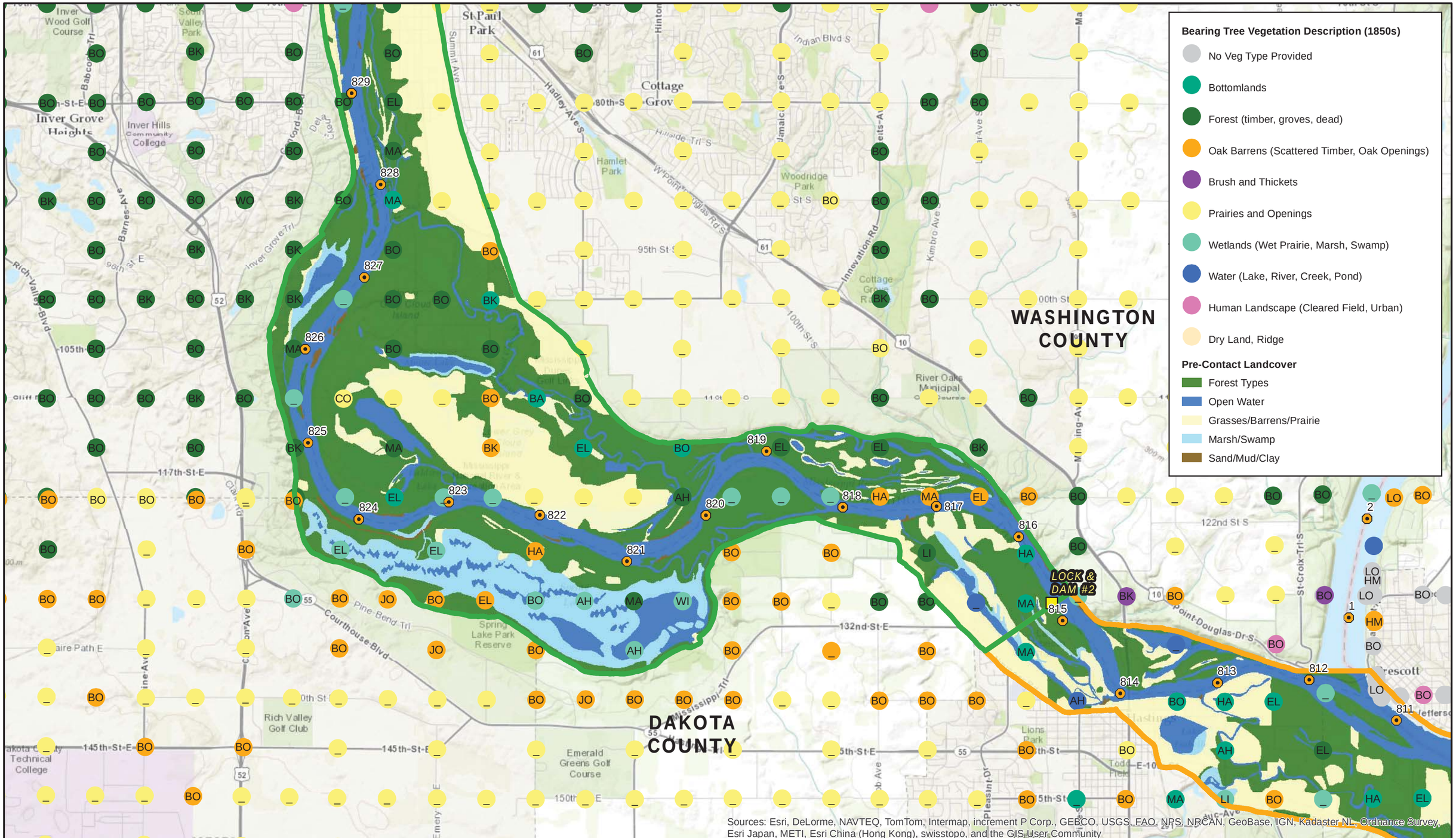

US Army Corps of Engineers

HDR

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0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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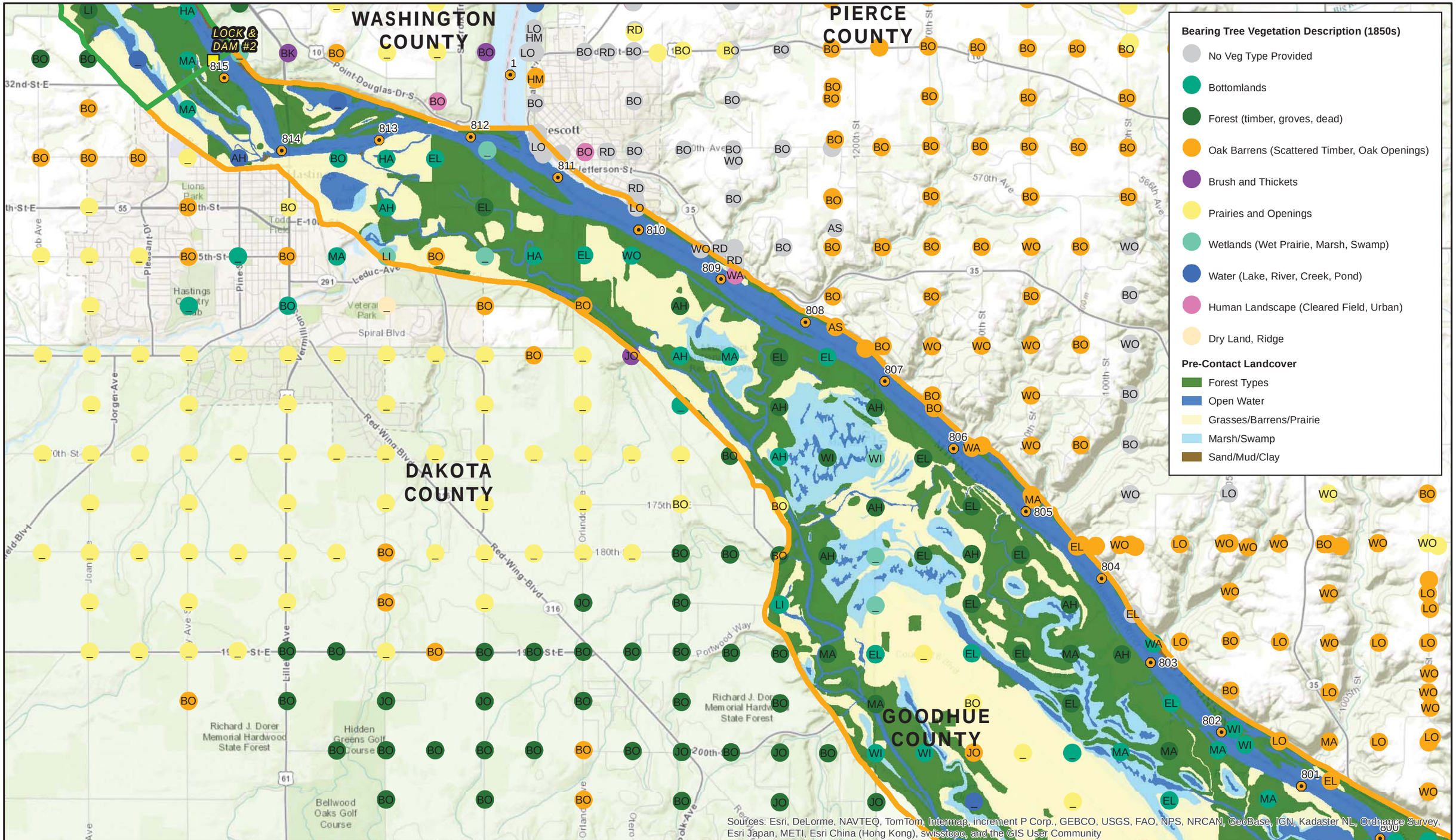

US Army Corps of Engineers

HDR

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0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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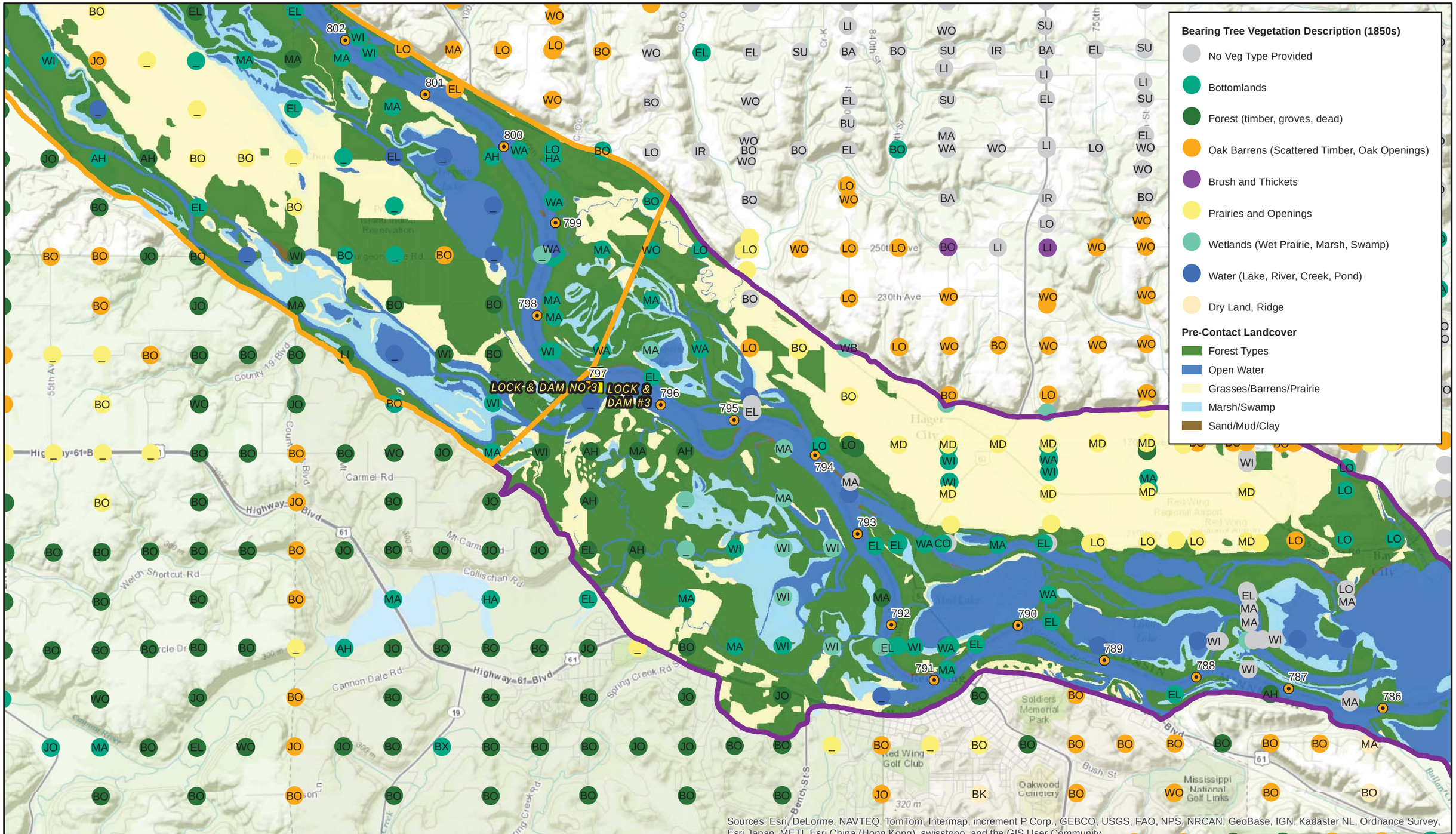

US Army Corps of Engineers

HDR

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0 0.5 1
Miles

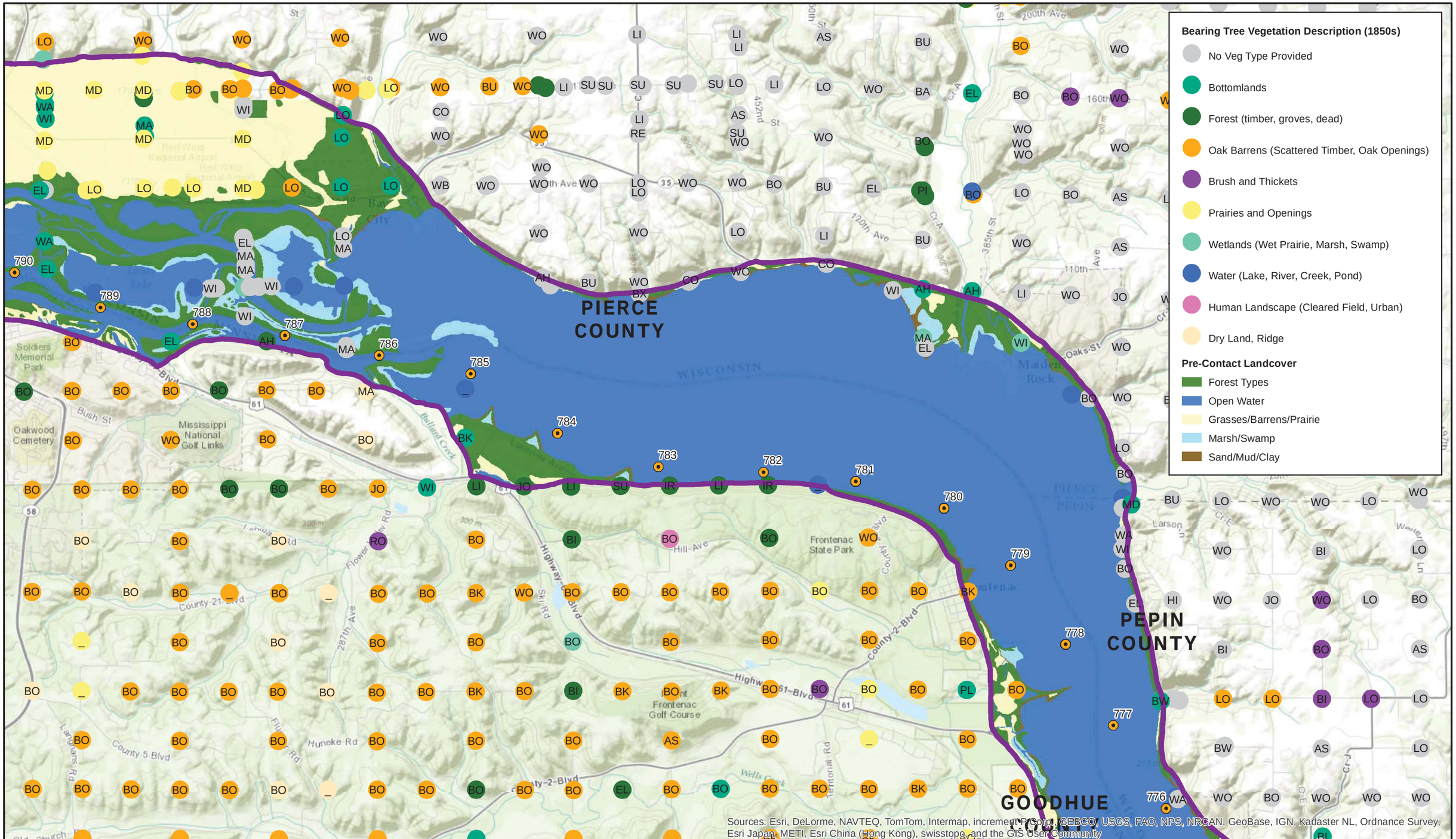
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_L_GLO_Trees_Pre-Settlement LC_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

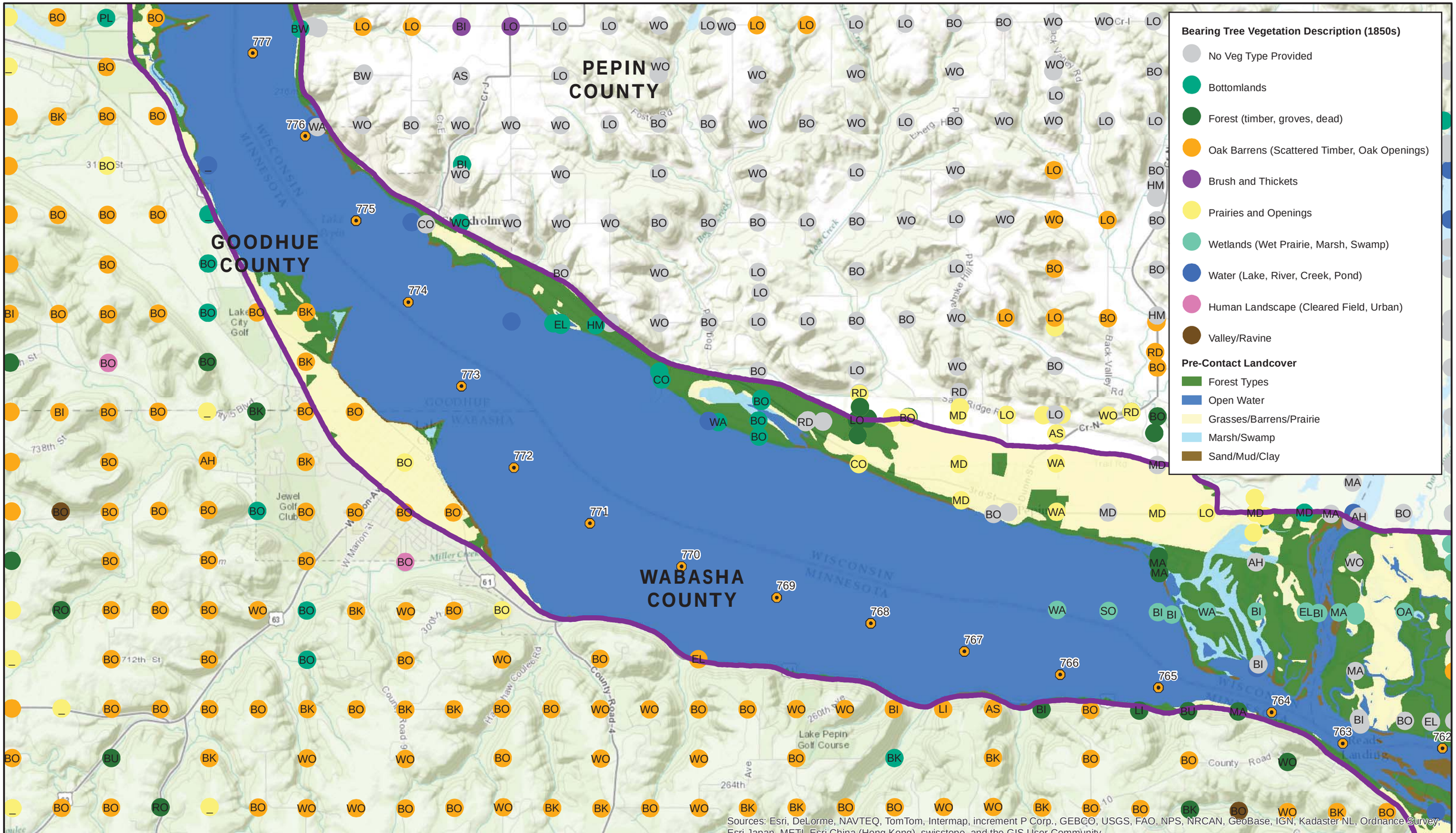
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_L_GLO_Trees_Pre-Settlement LC_11X17L.mxd



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

US Army Corps of Engineers

HDR

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0 0.5 1
Miles

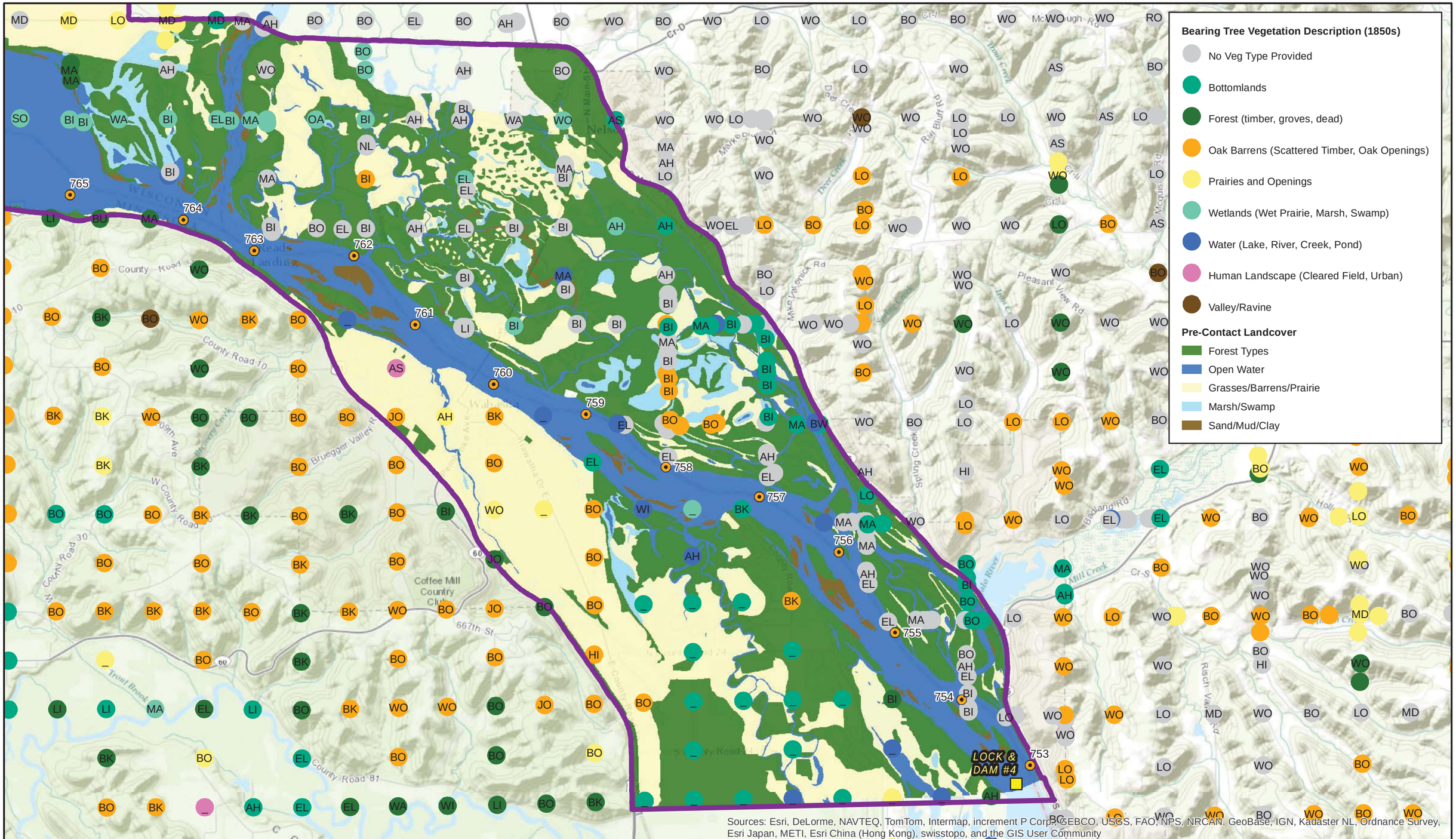
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_L_GLO_Trees_Pre-Settlement LC_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

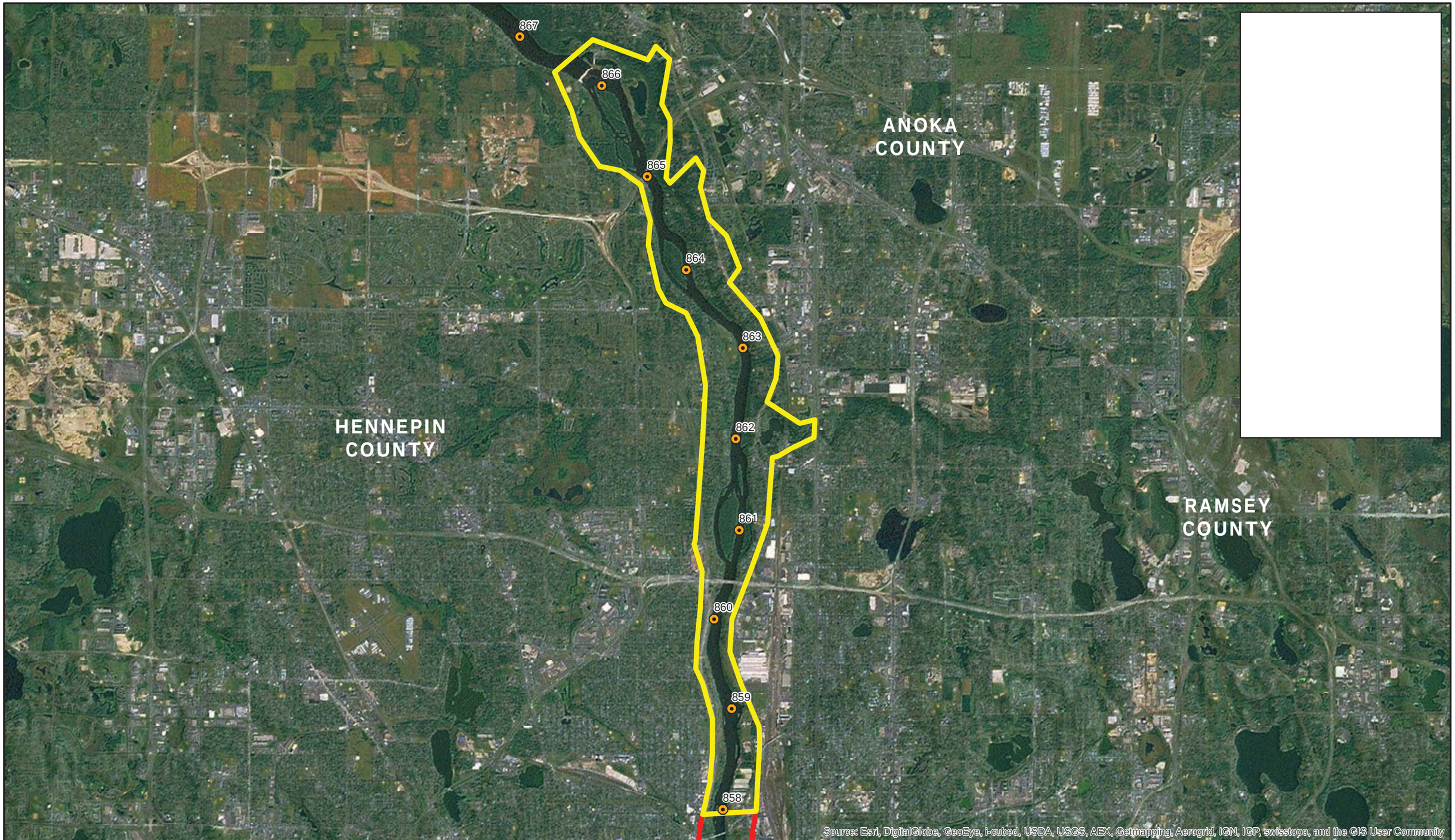
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix L - PLS Bearing Tree and Presettlement Landcover
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_L_GLO_Trees_Pre-Settlement LC_11X17L.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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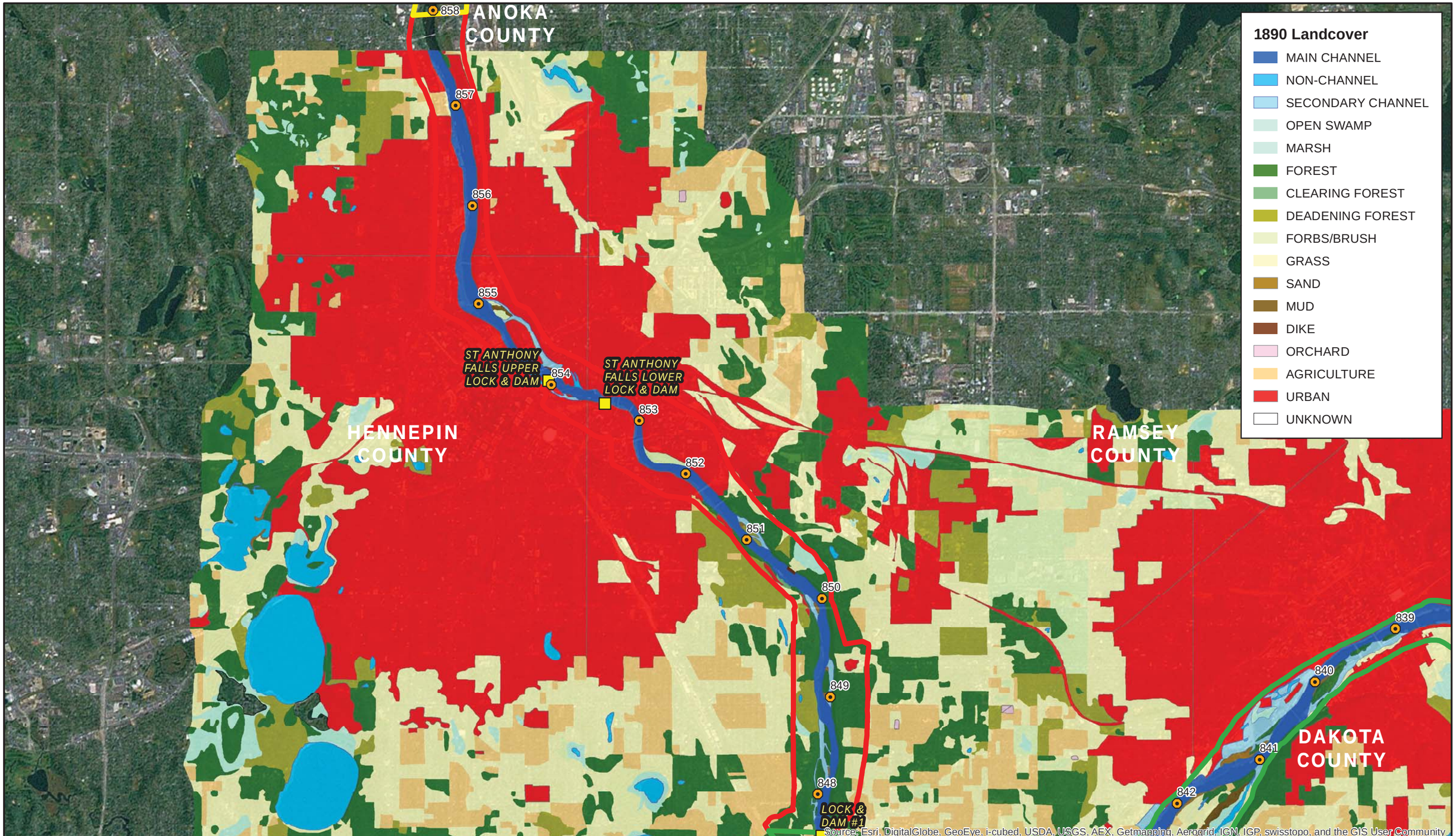


US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

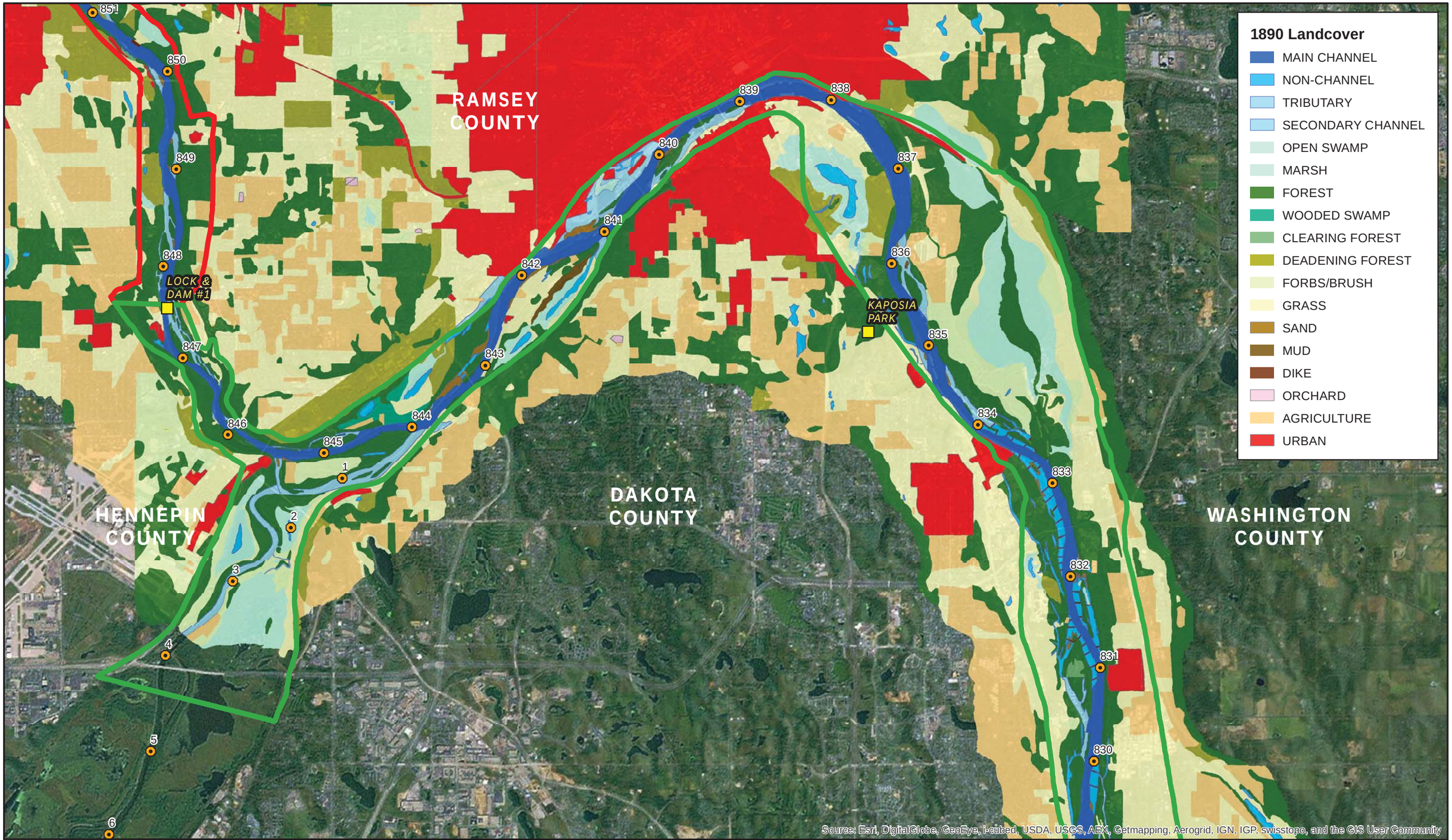
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_M_1890 LC_11X17L_.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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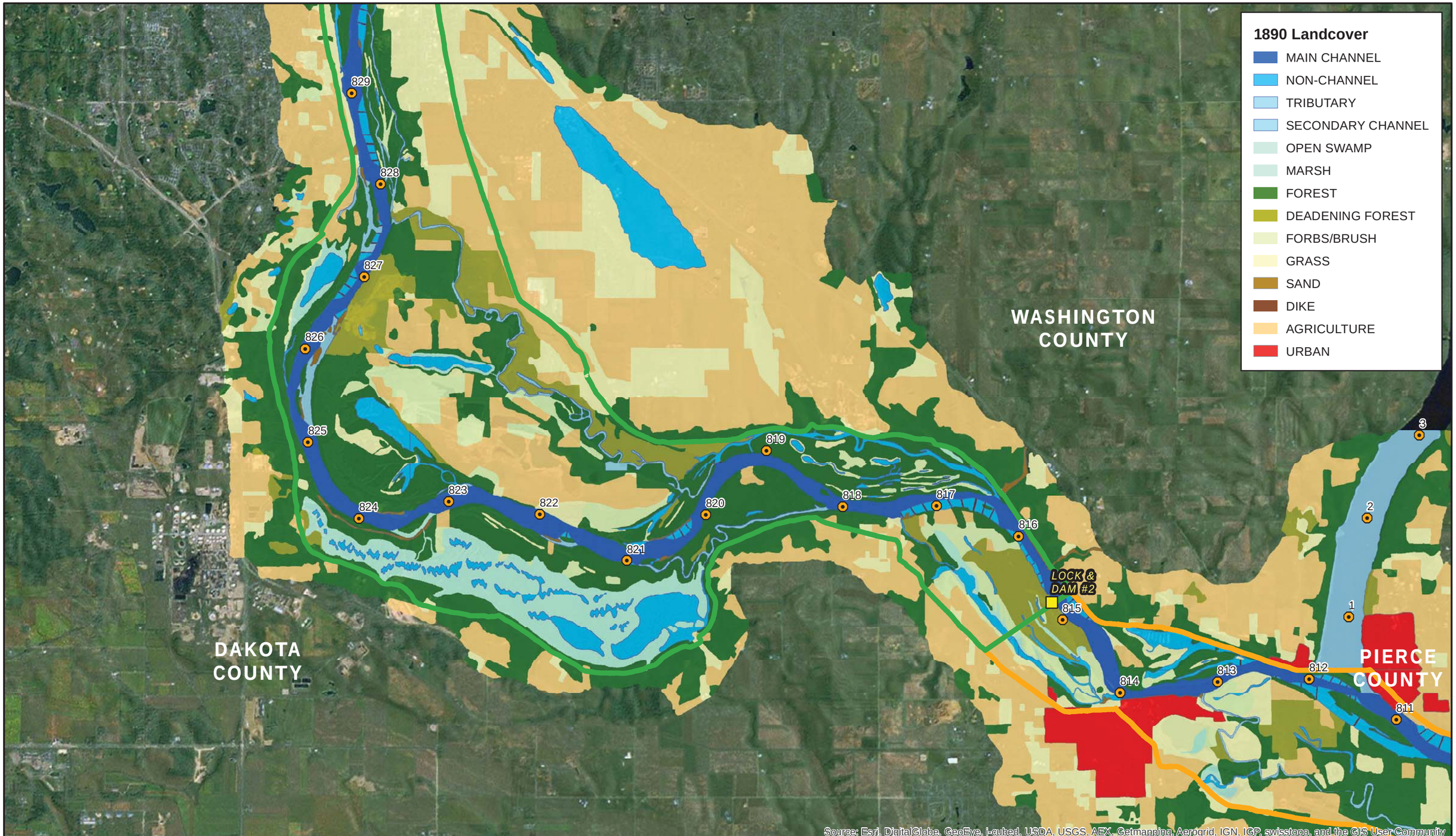


US Army Corps of Engineers

HDR

N

0 0.5 1
Miles

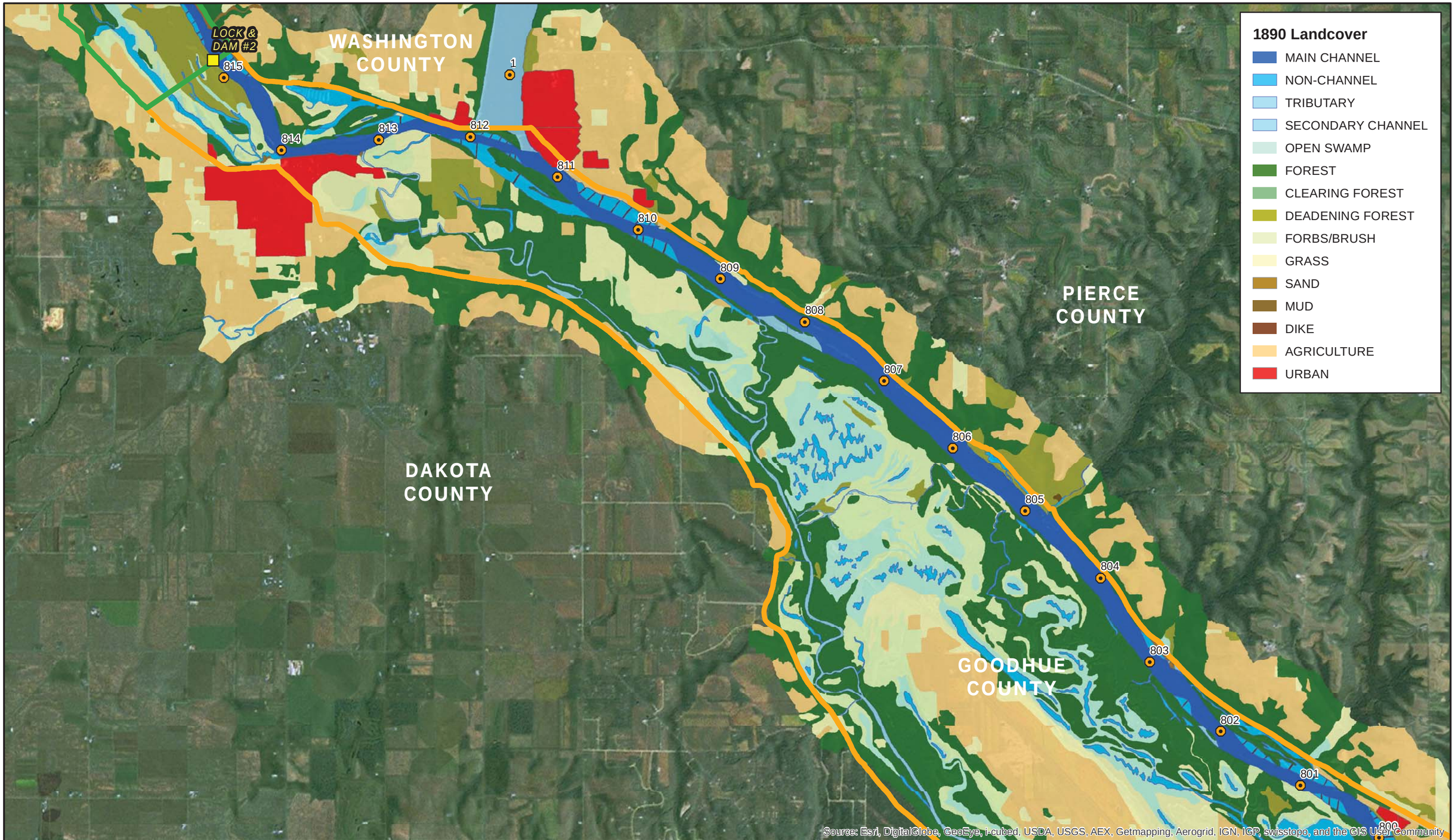
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_M_1890 LC_11X17L_.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

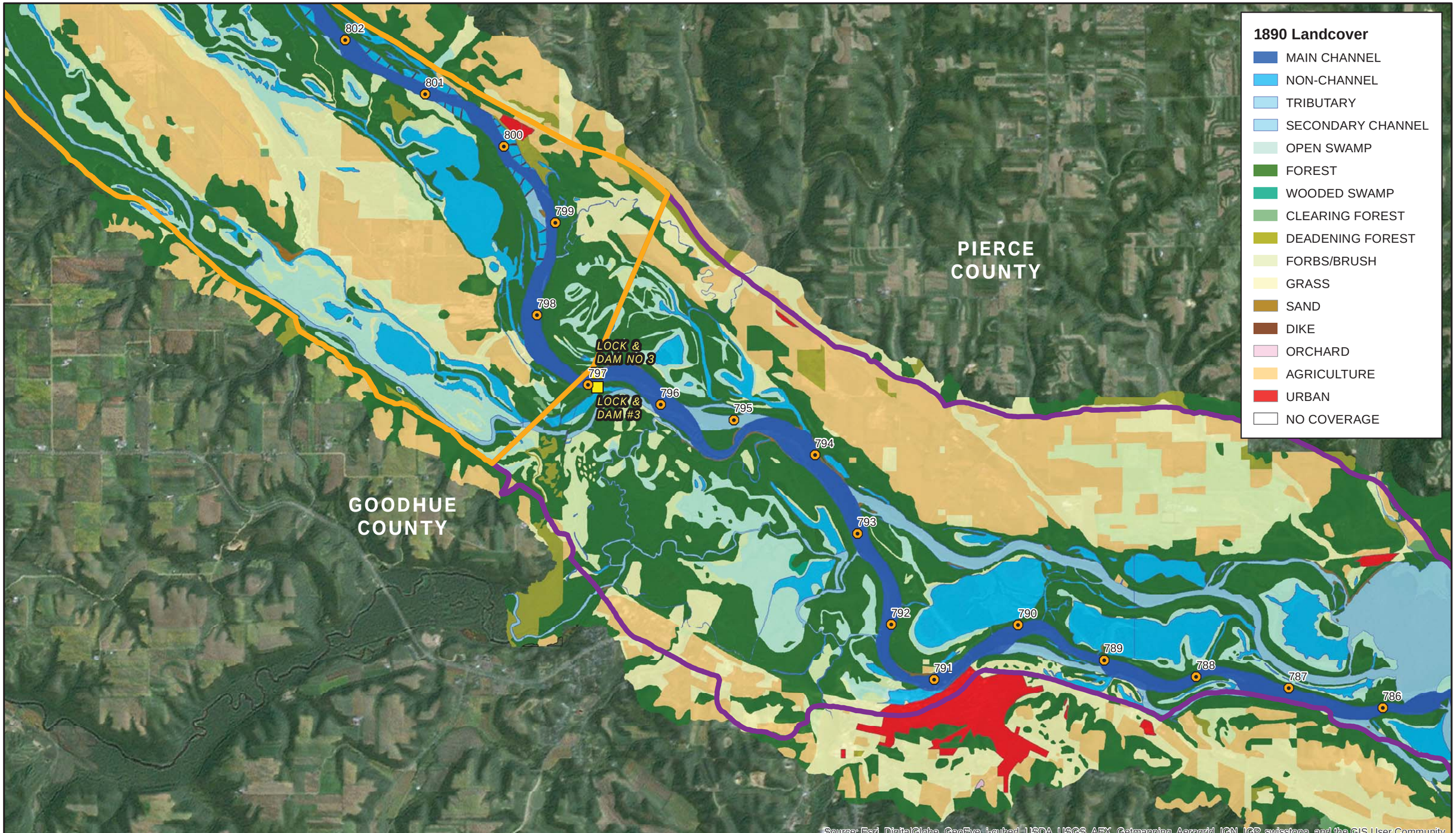
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_M_1890 LC_11X17L_.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

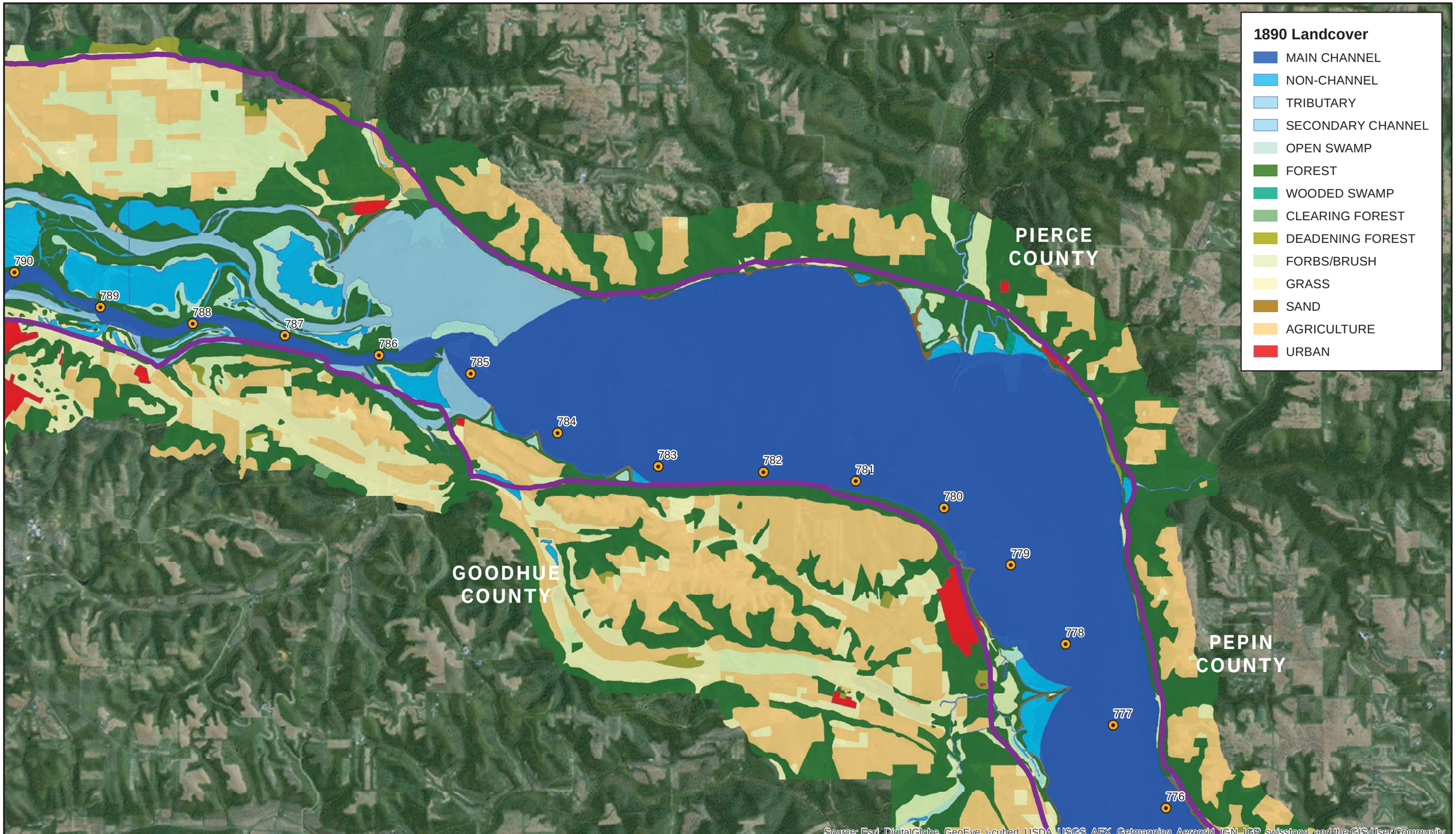
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_M_1890 LC_11X17L_.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

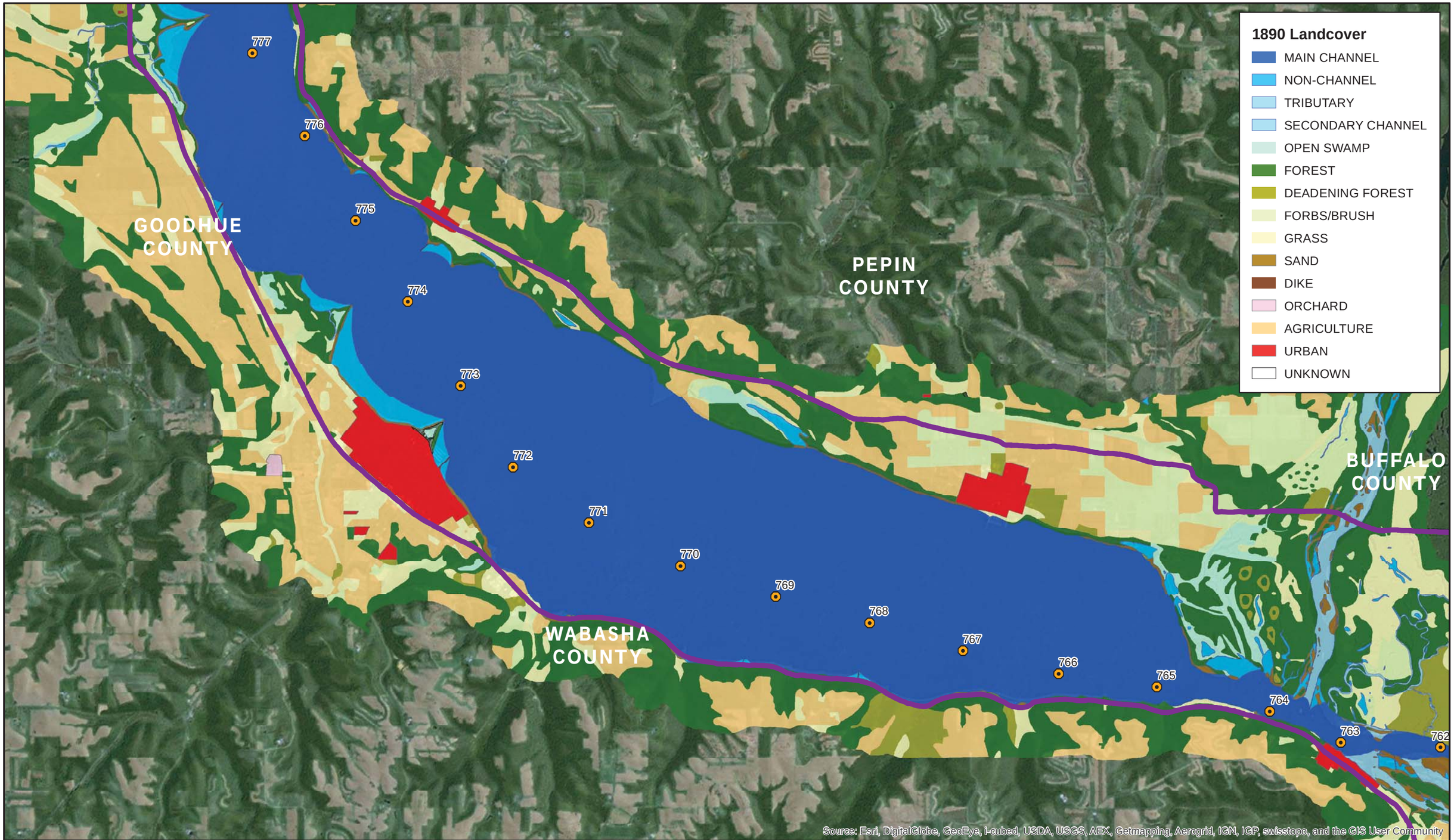
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_M_1890 LC_11X17L_.mxd



US Army Corps of Engineers

HDR

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0 0.5 1
Miles

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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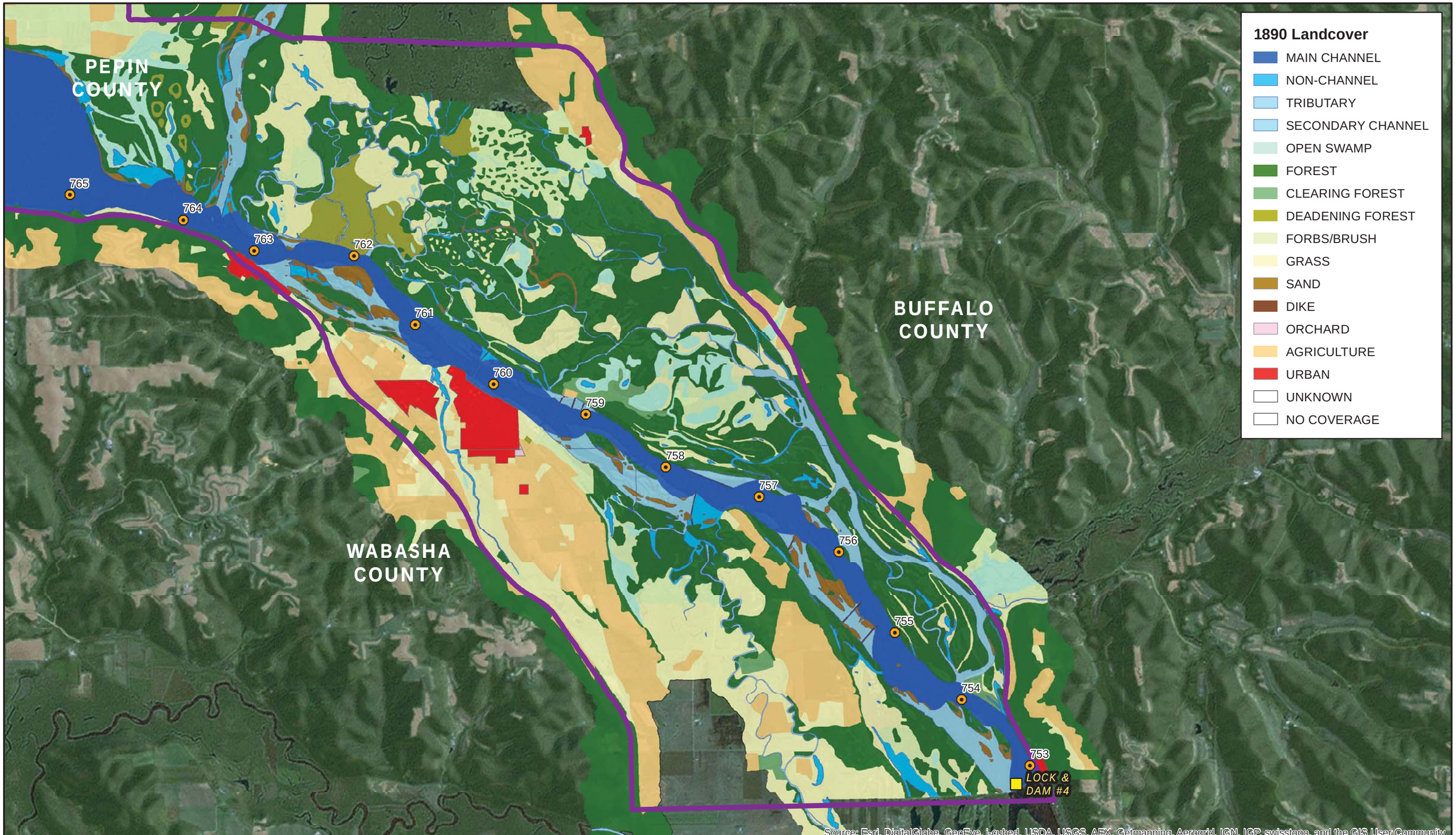

US Army Corps of Engineers

HDR

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Miles

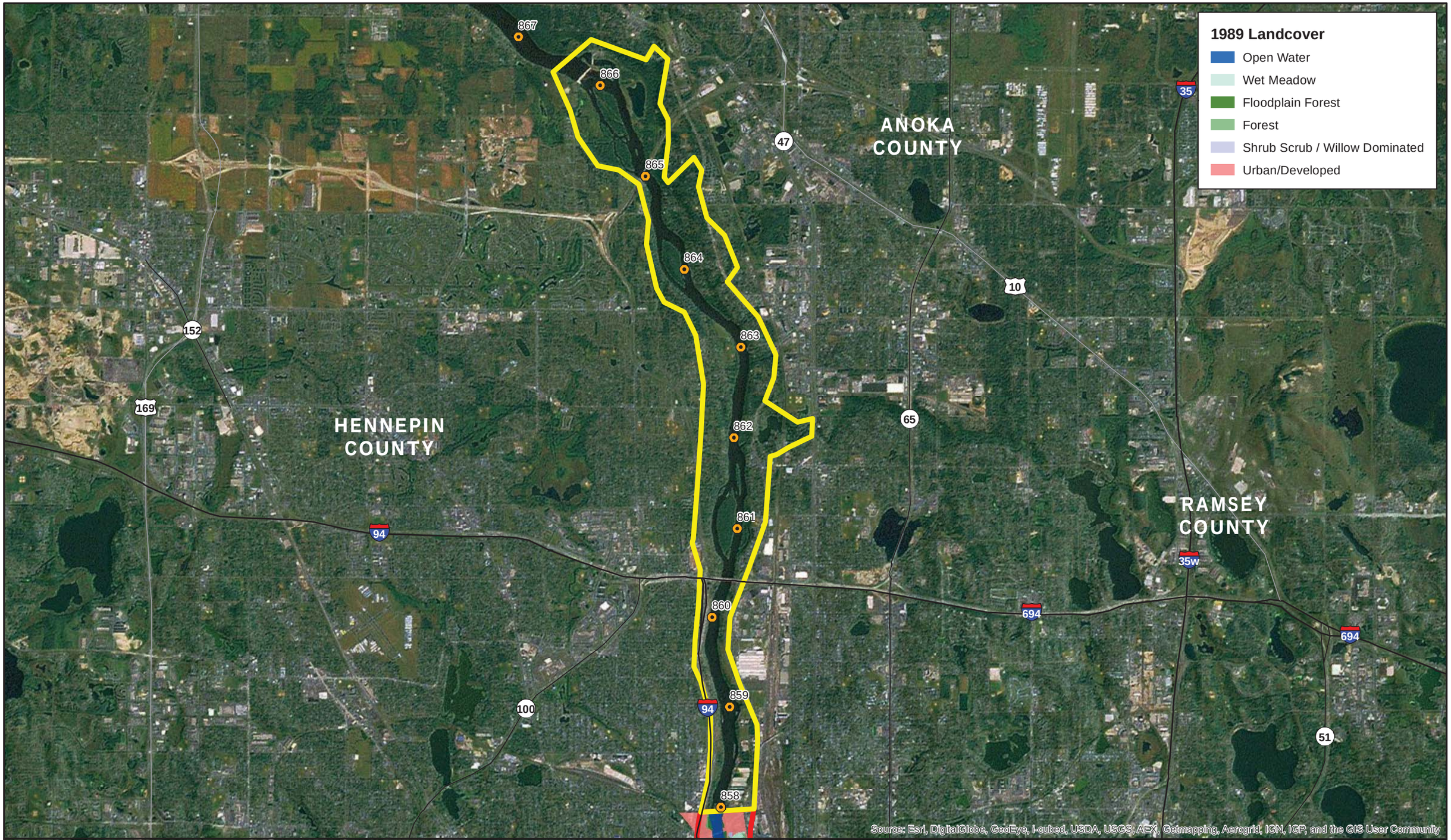
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- Dam
- River Mile Marker

Appendix M - 1890 Landcover
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_M_1890 LC_11X17L_.mxd



US Army Corps of Engineers

HDR

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Miles

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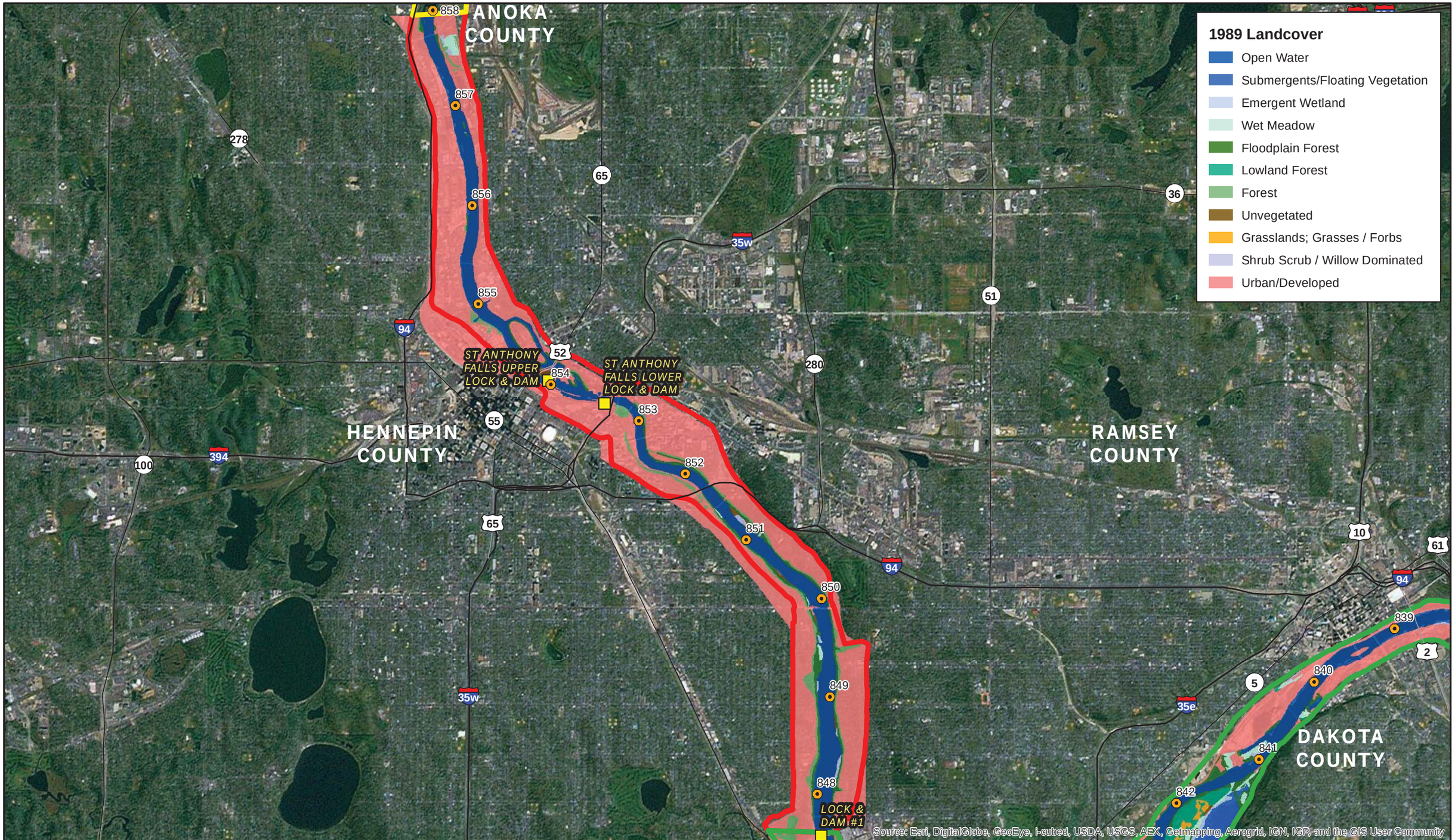
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\msp-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_N_1989 LC_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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Map 11x17 Landscape

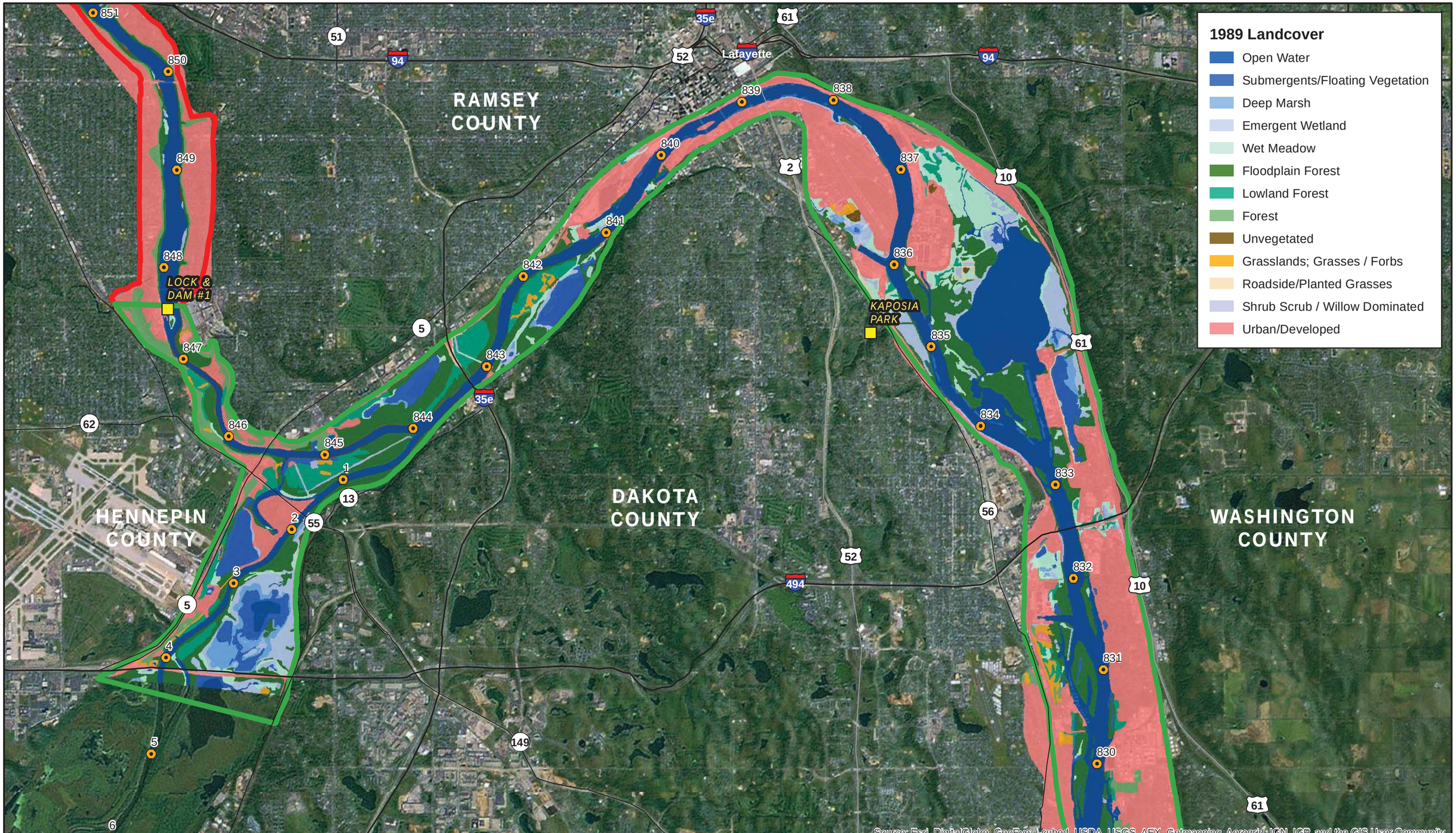
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool

- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_N_1989 LC_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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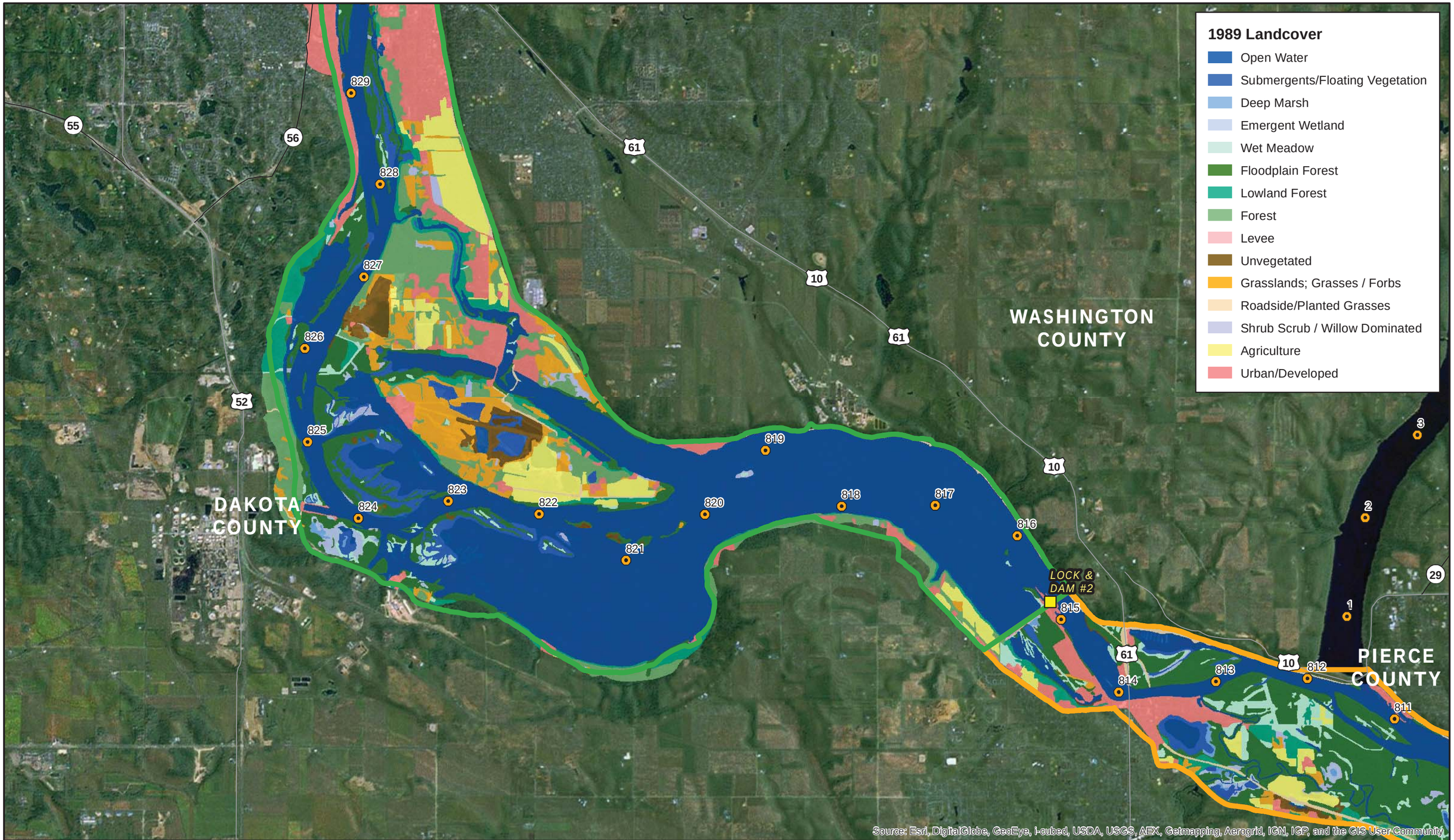

US Army Corps of Engineers

HDR

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Miles
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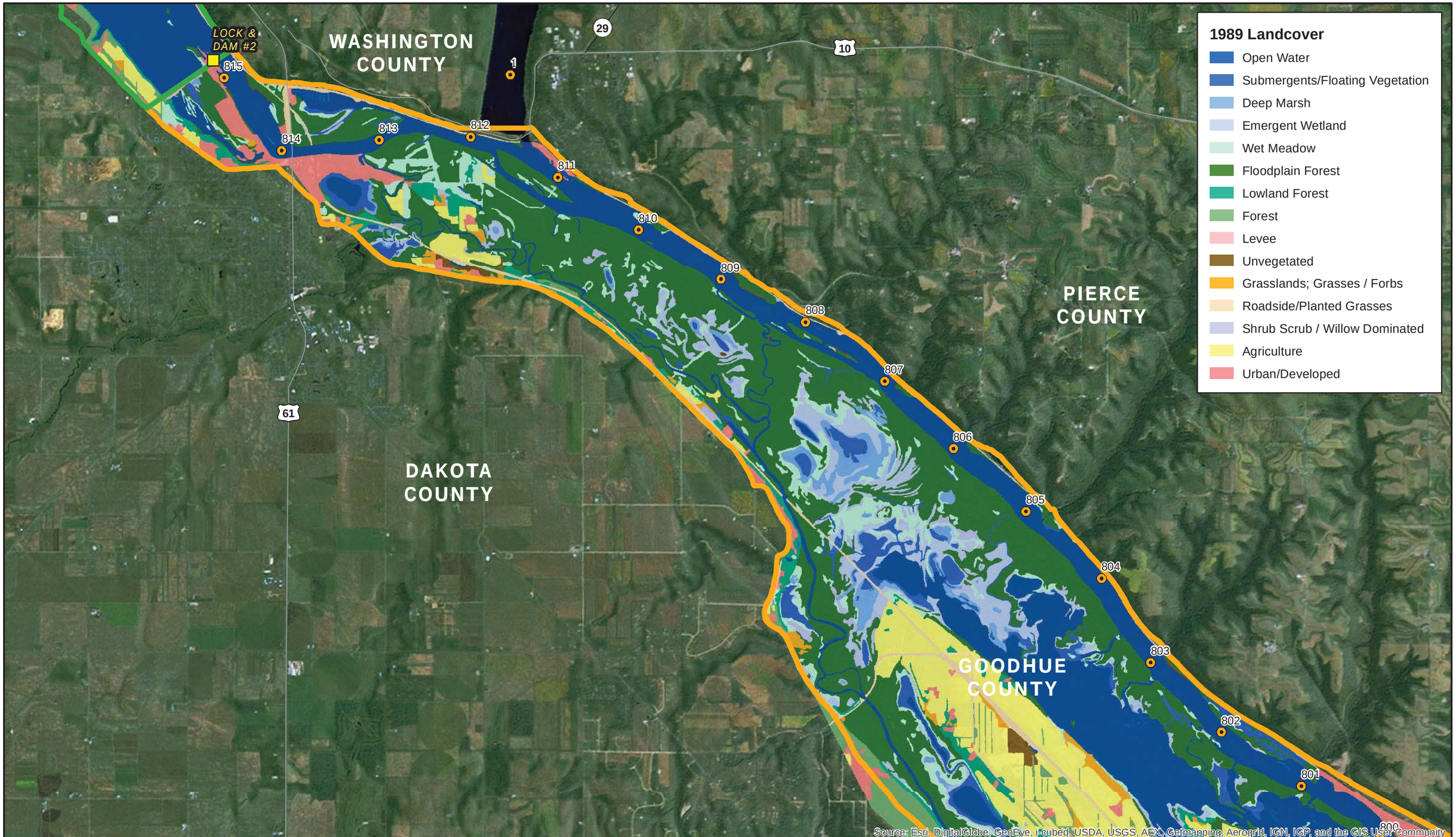
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_N_1989 LC_11X17L.mxd



US Army Corps of Engineers

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Miles

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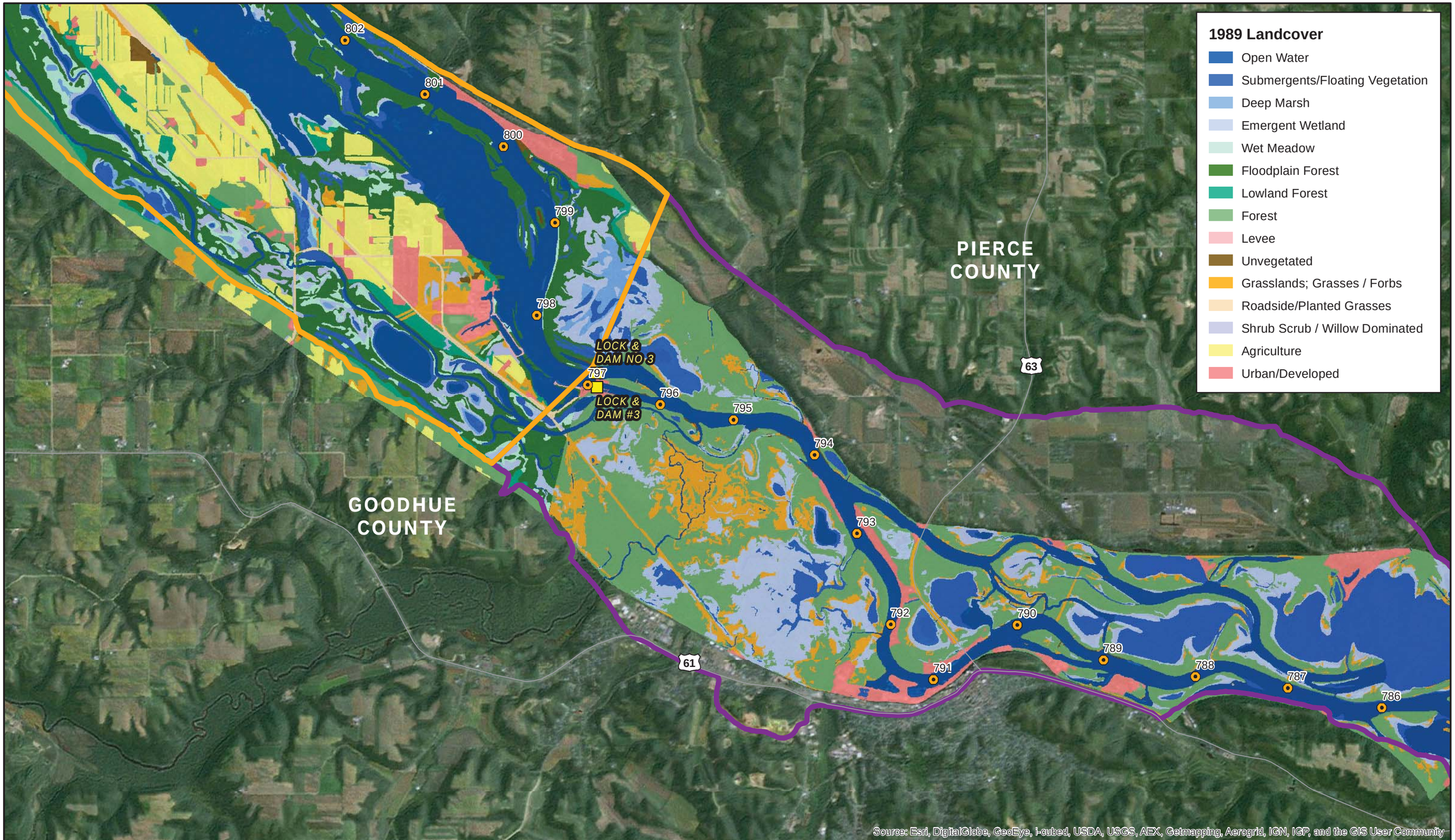
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_N_1989 LC_11X17L.mxd



US Army Corps of Engineers

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Miles

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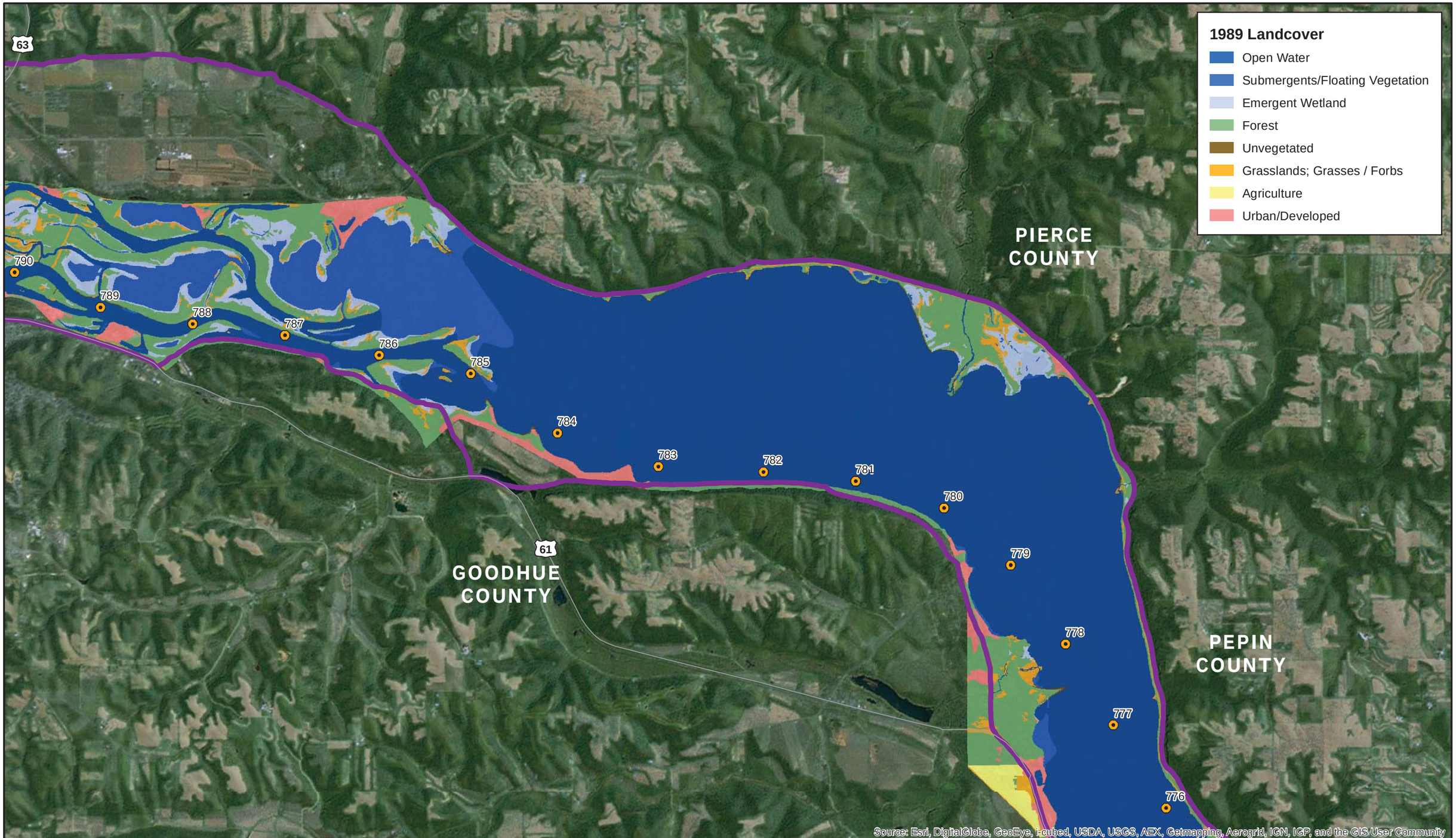
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_N_1989 LC_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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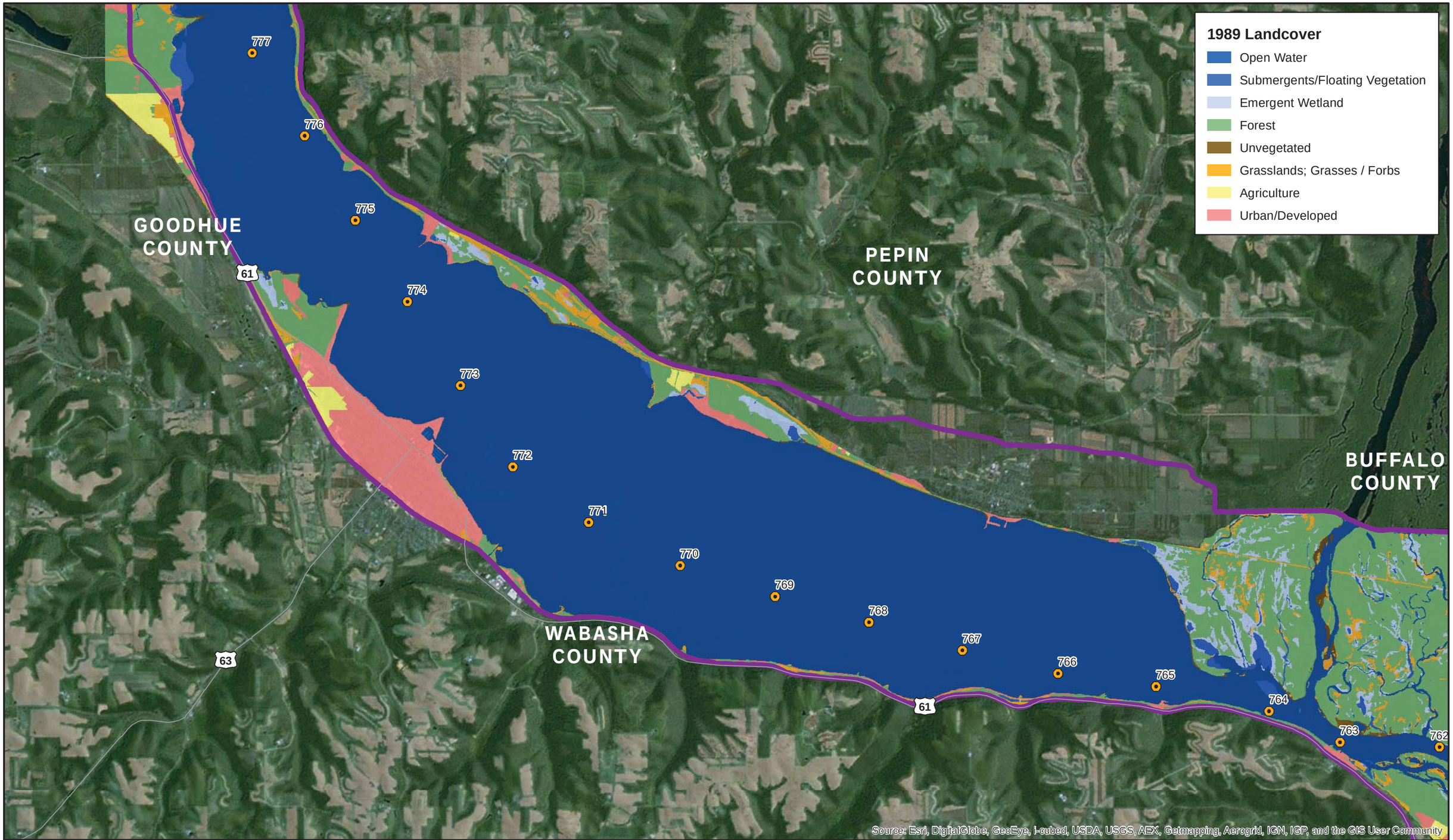
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_N_1989 LC_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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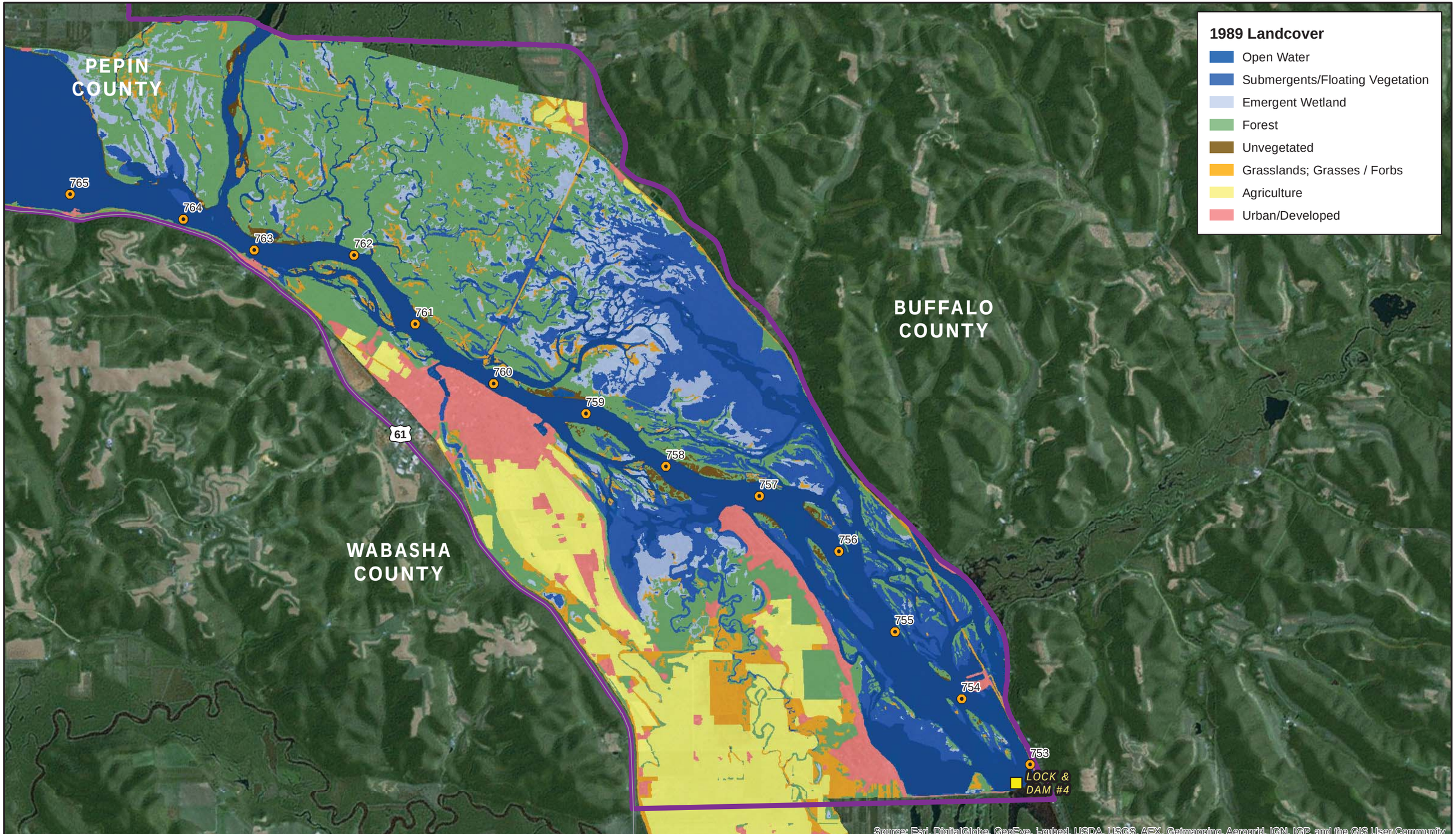
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_N_1989 LC_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

1:58,000

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony Pool
- River Mile Marker
- Dam

Appendix N - 1989 Landcover
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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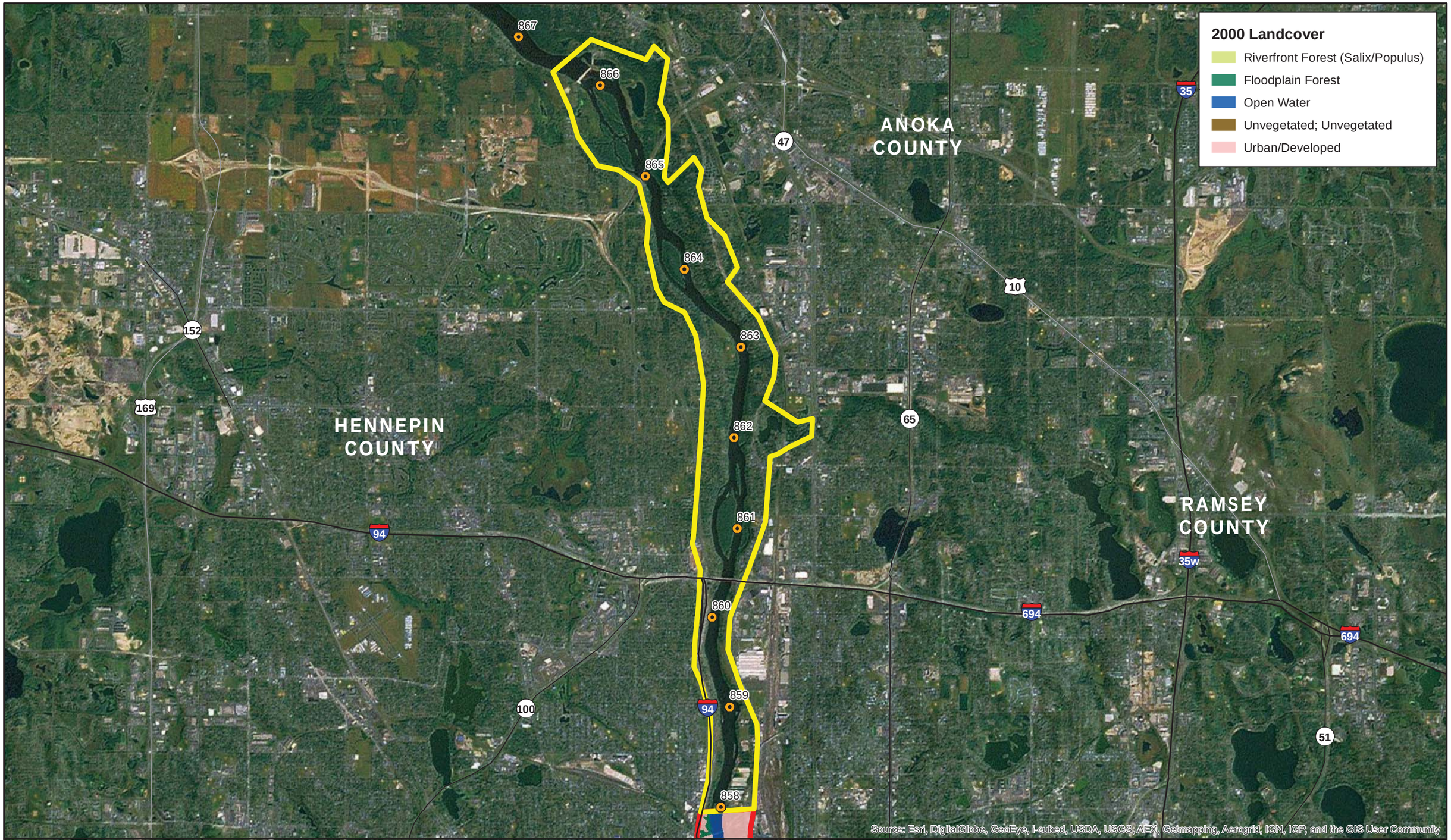

US Army Corps of Engineers

HDR

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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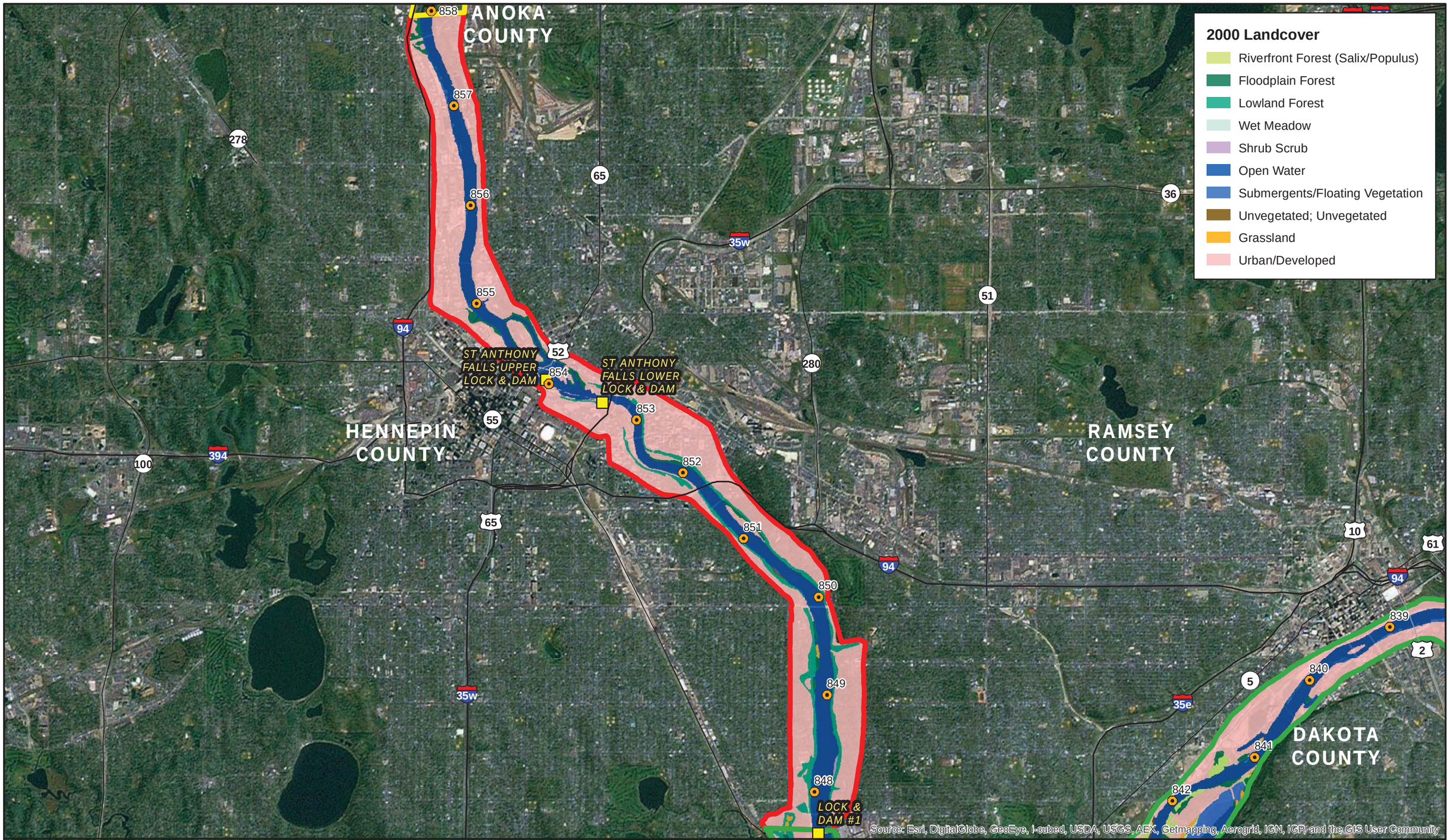

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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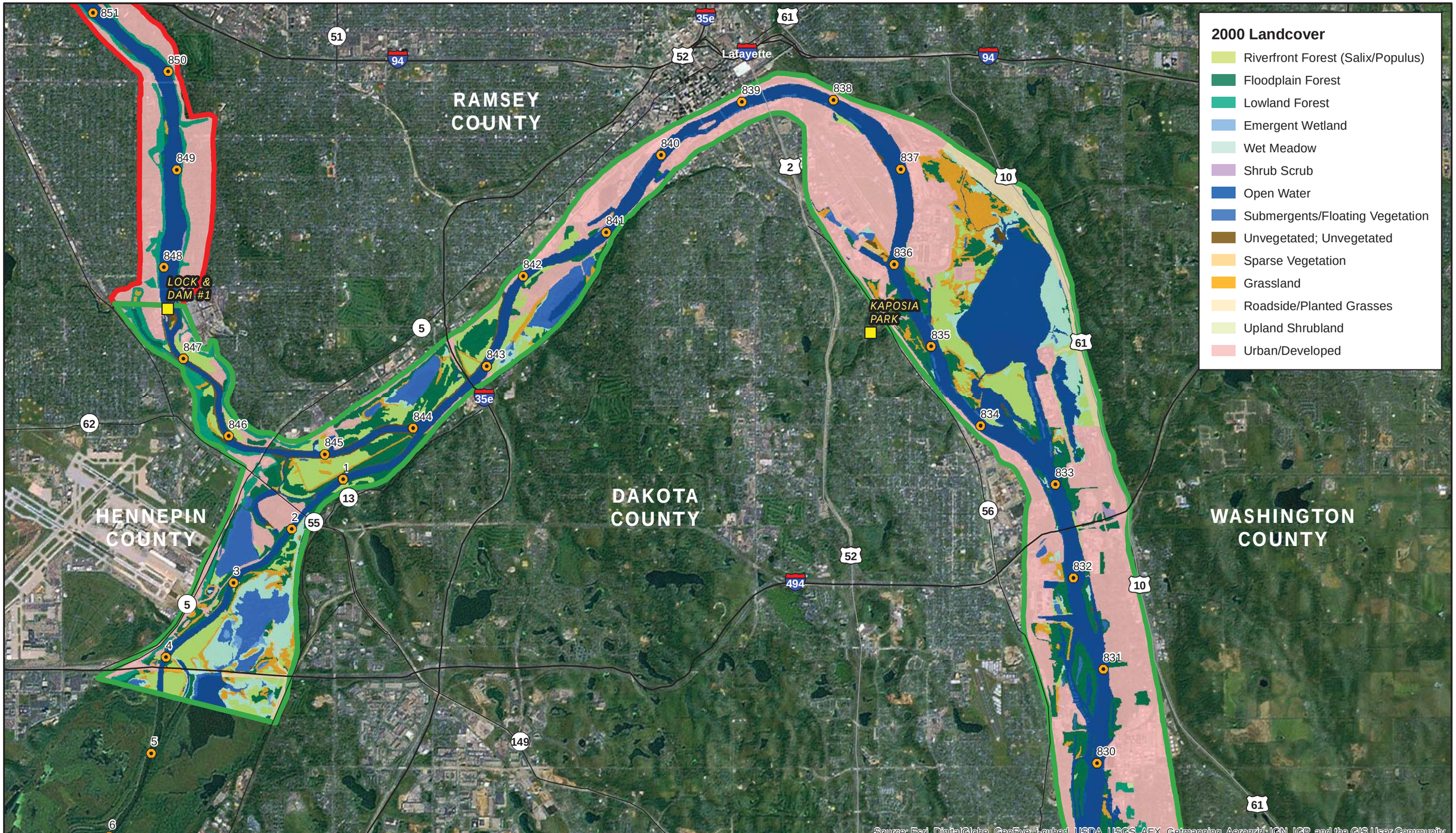

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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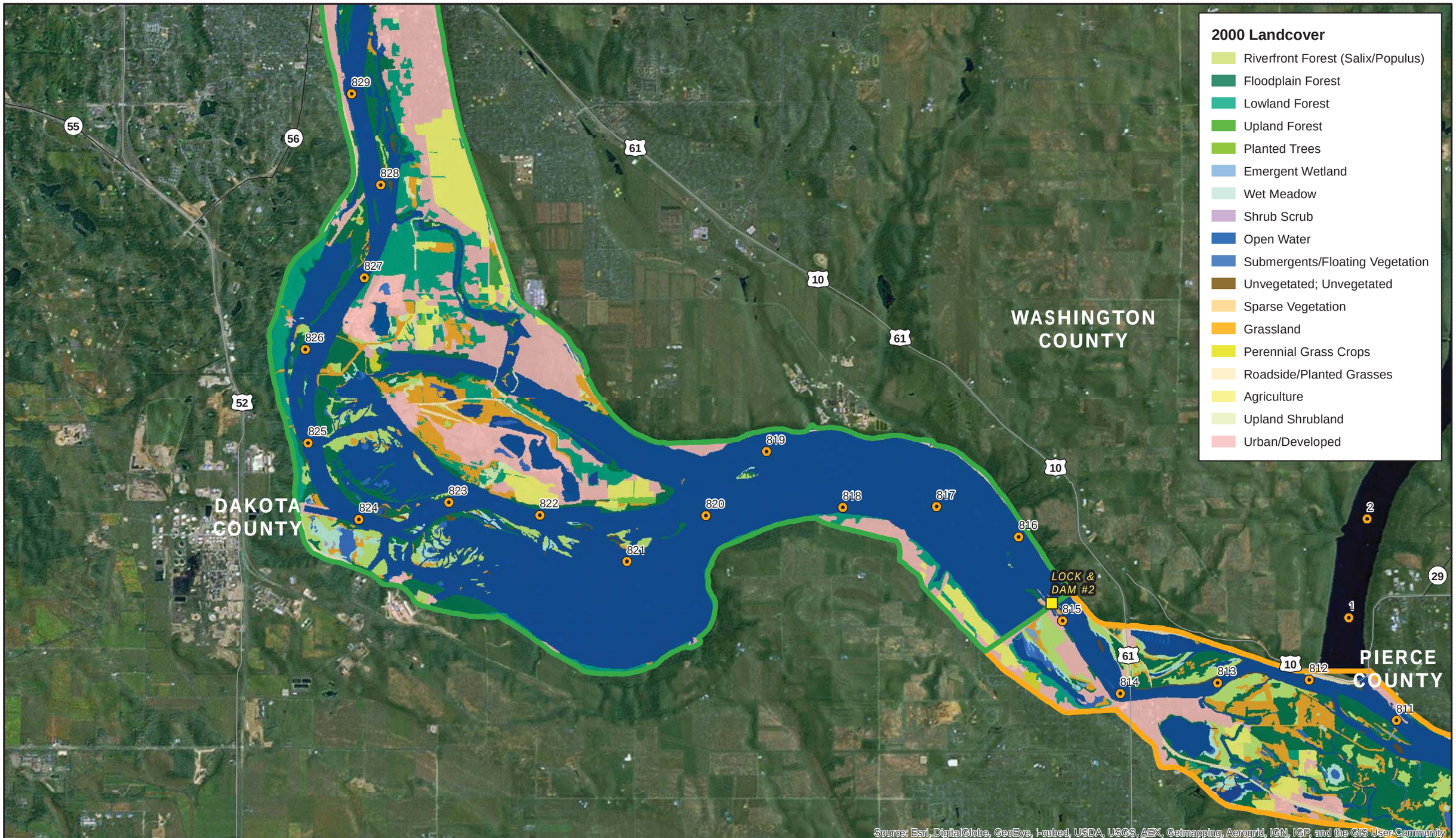

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

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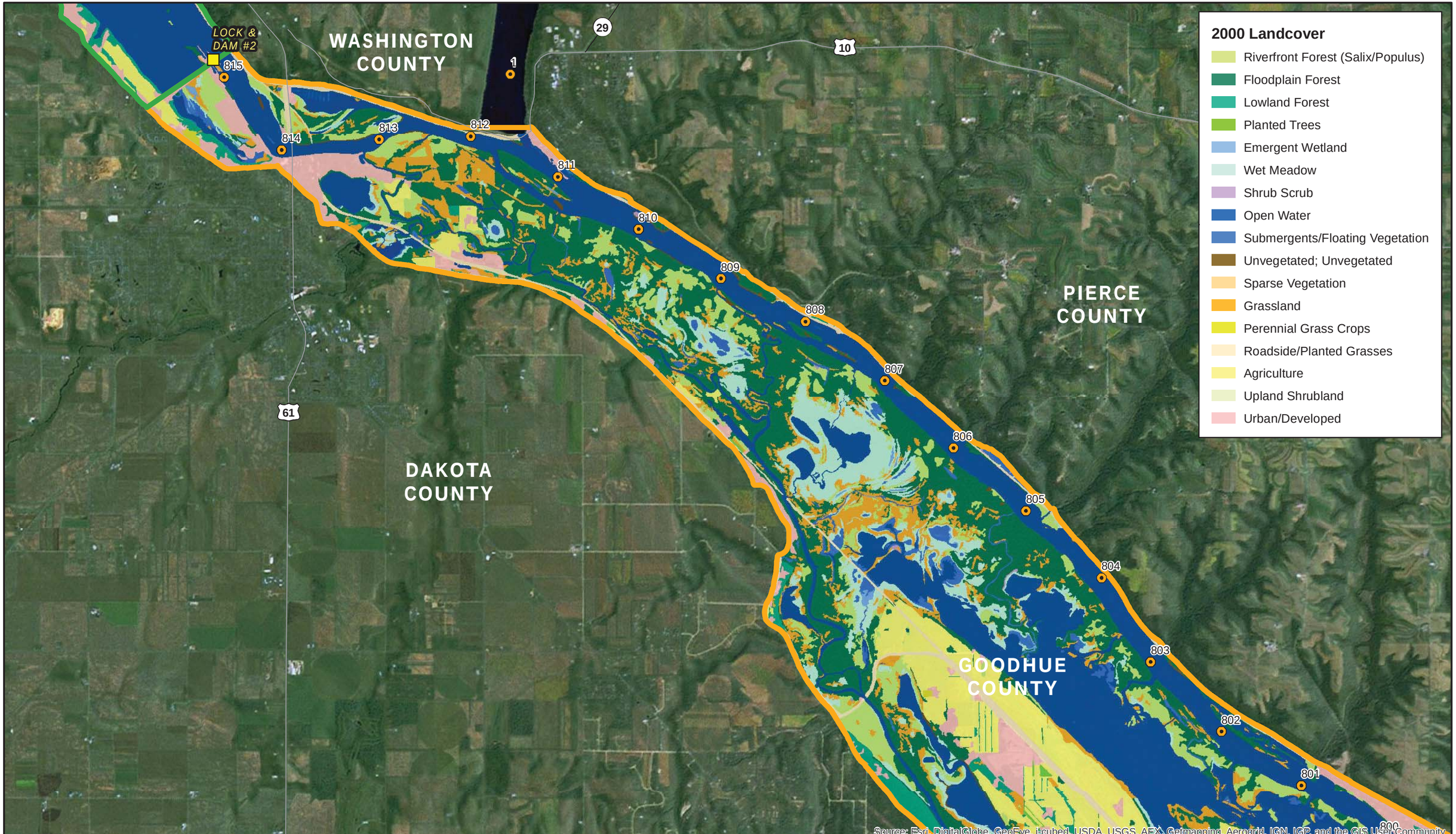

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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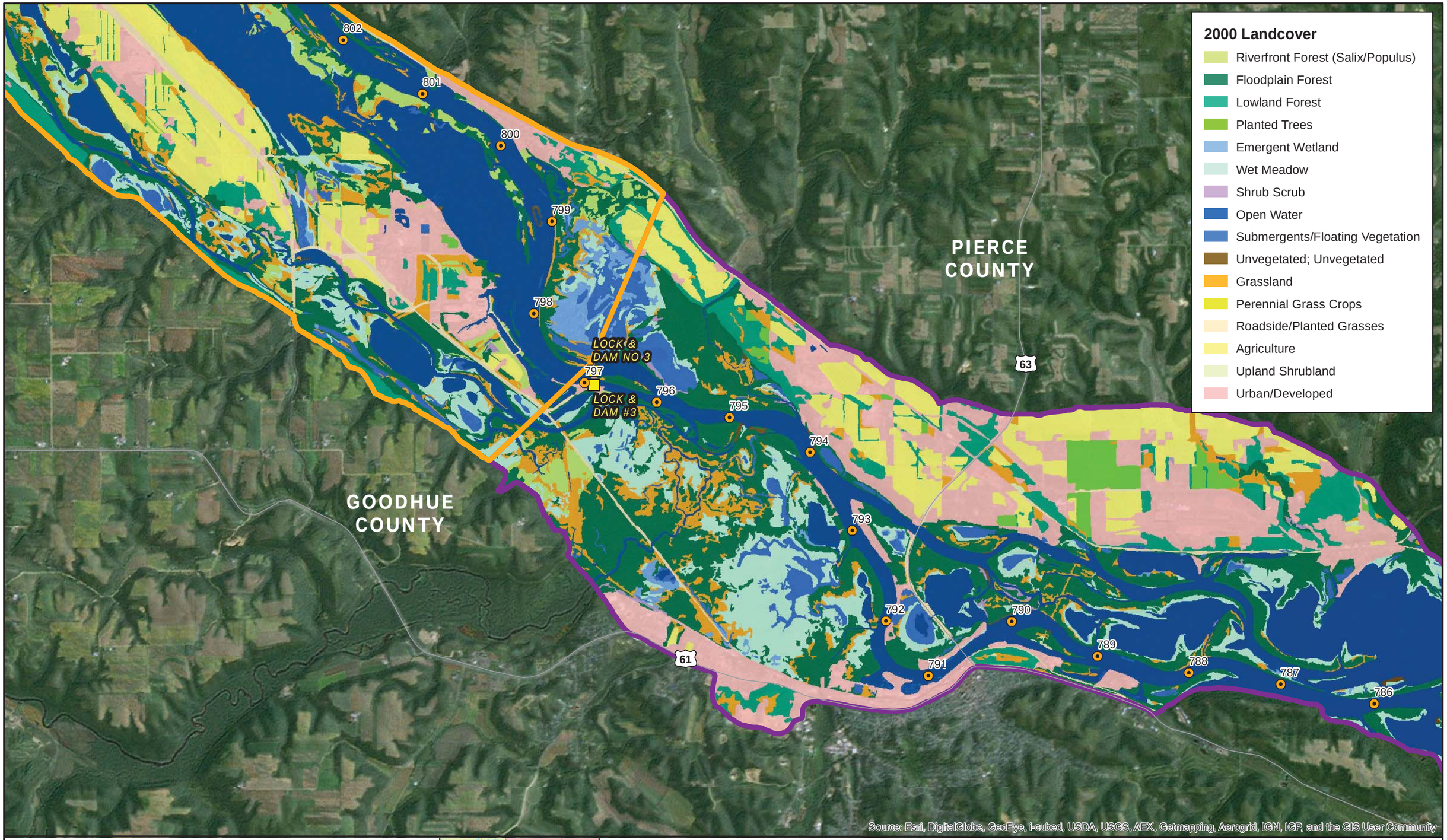

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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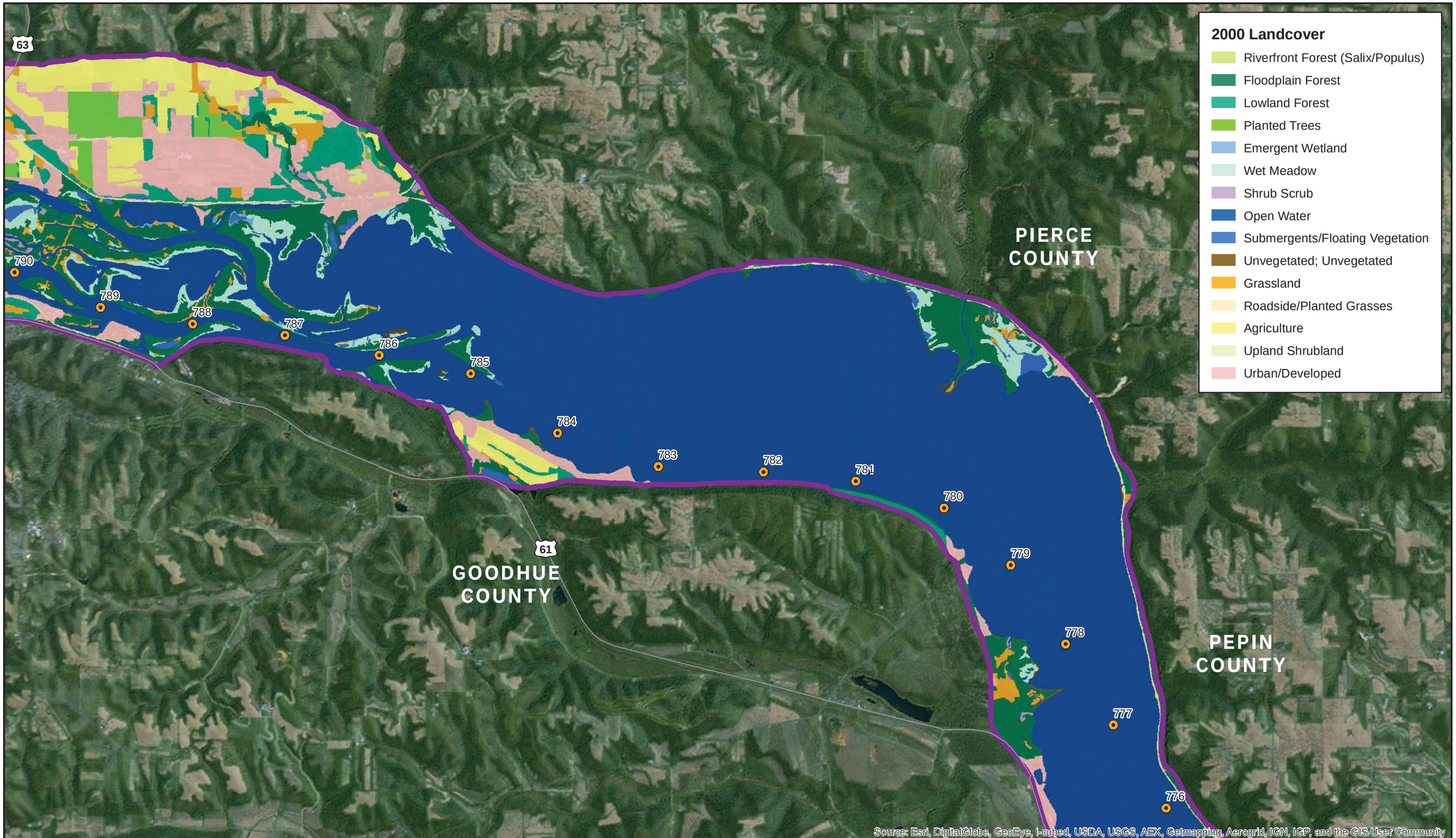

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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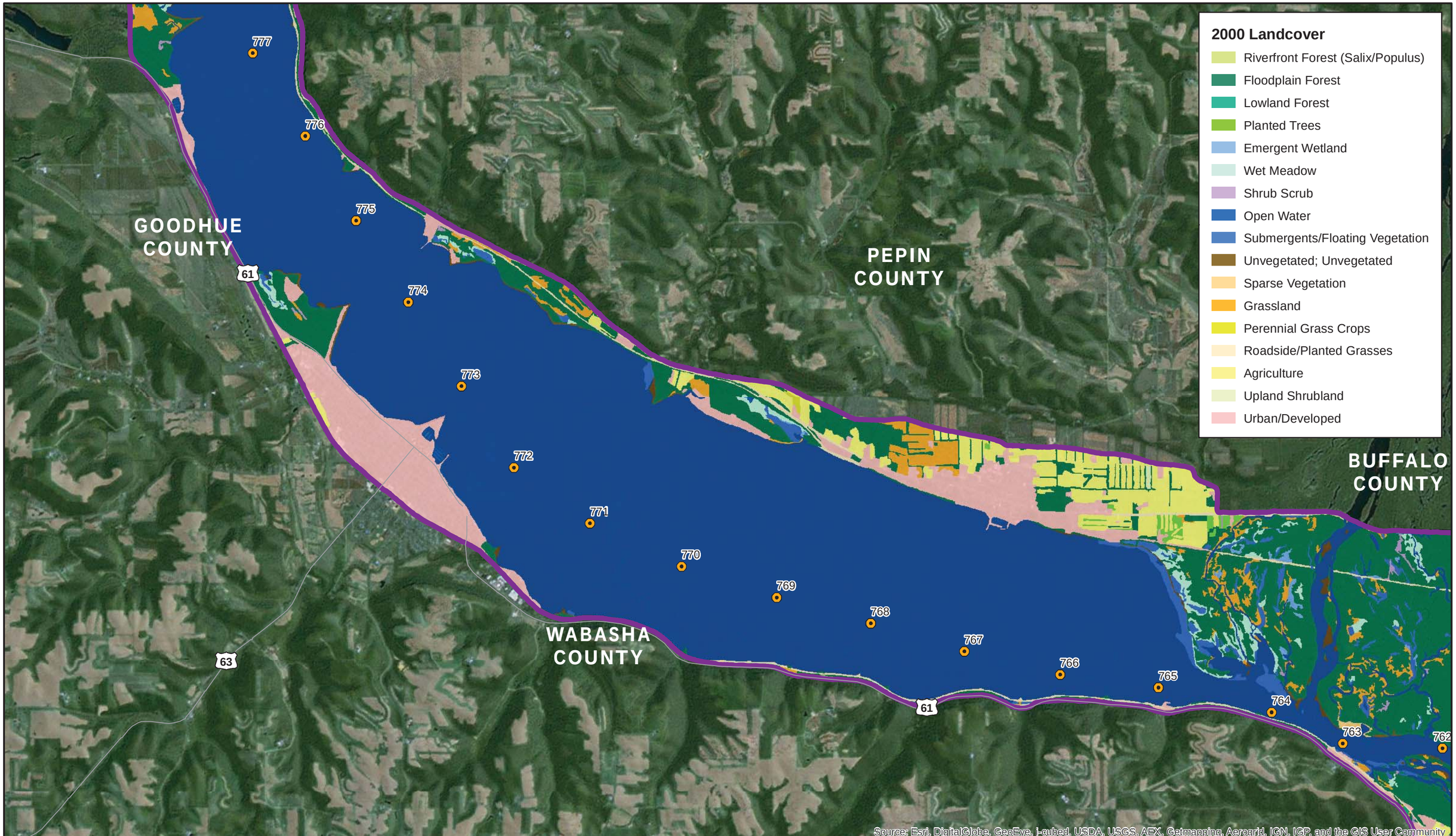

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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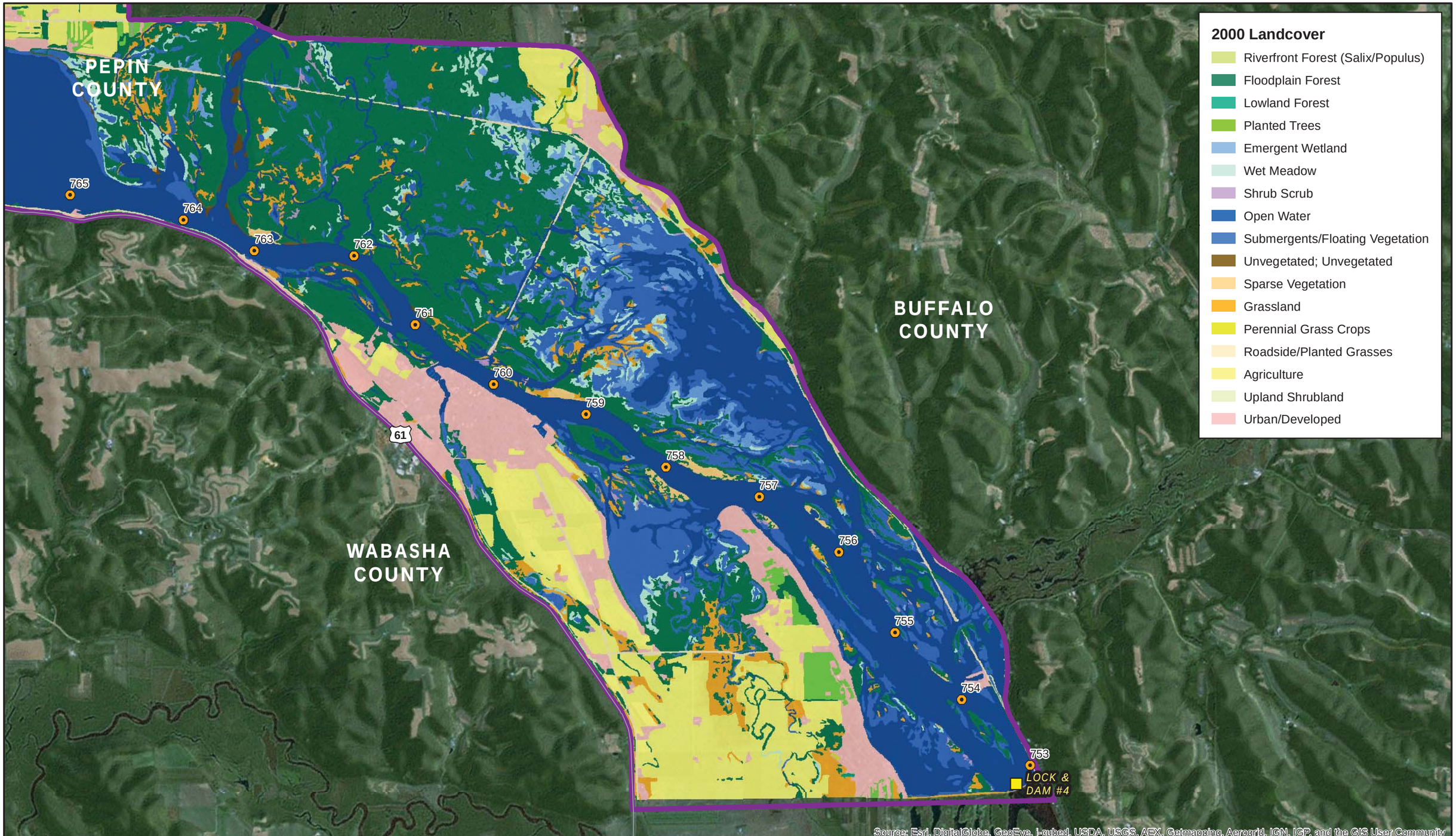

US Army Corps of Engineers

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Map 11x17 Landscape

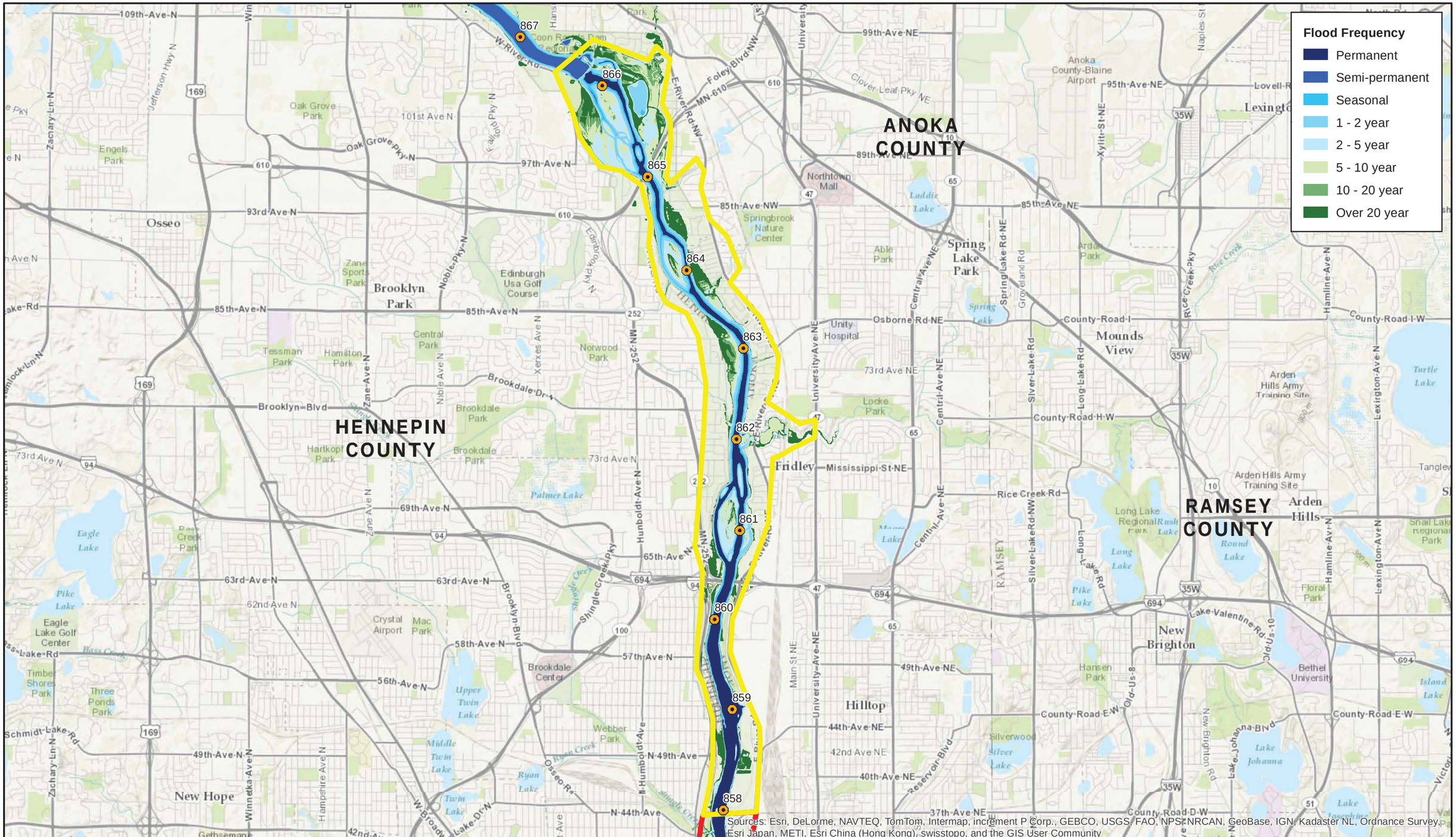
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix O - 2000 Landcover
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_O_2000 LC_11X17L.mxd



US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix P - Flood Frequency
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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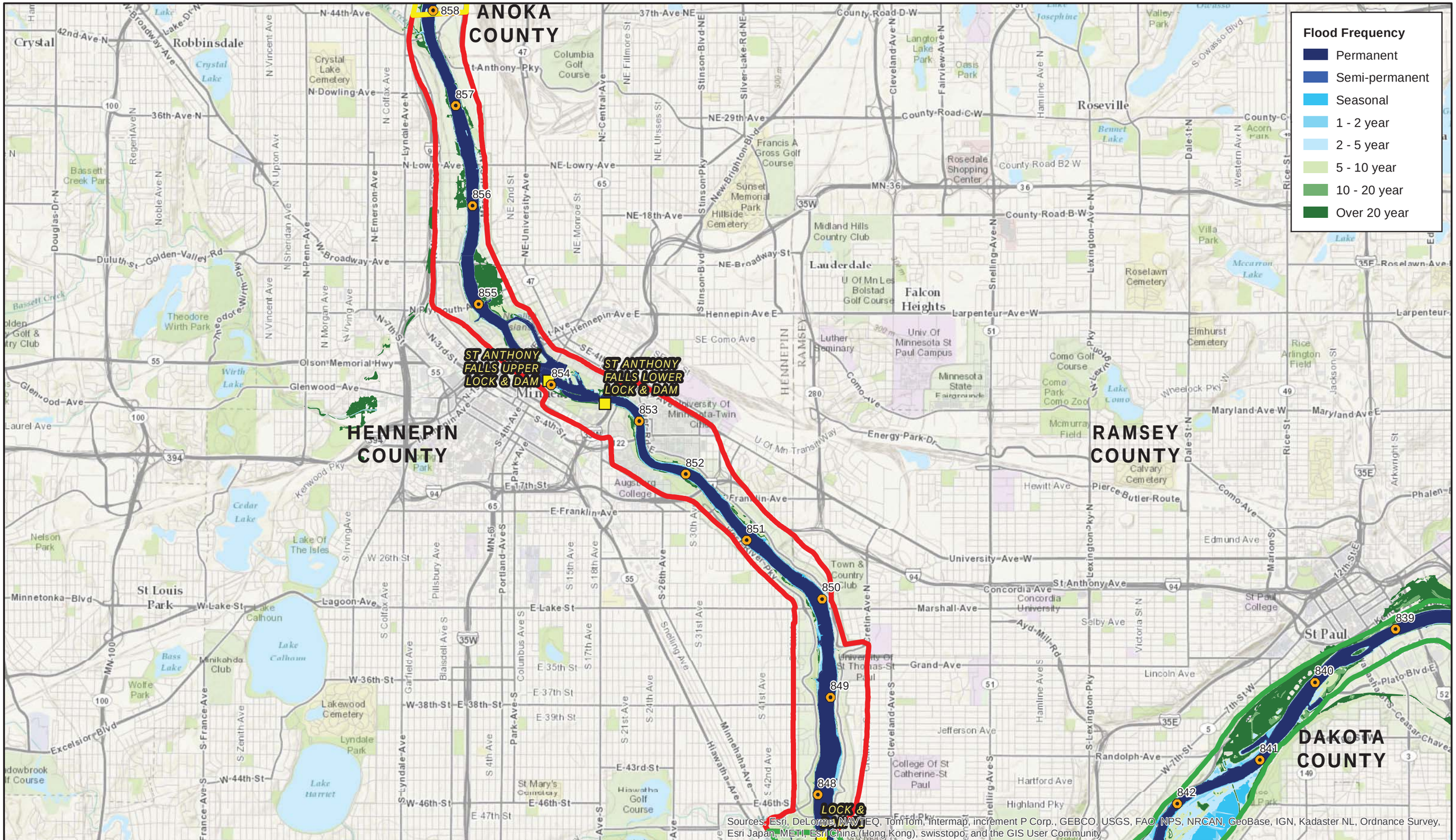

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix P - Flood Frequency
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

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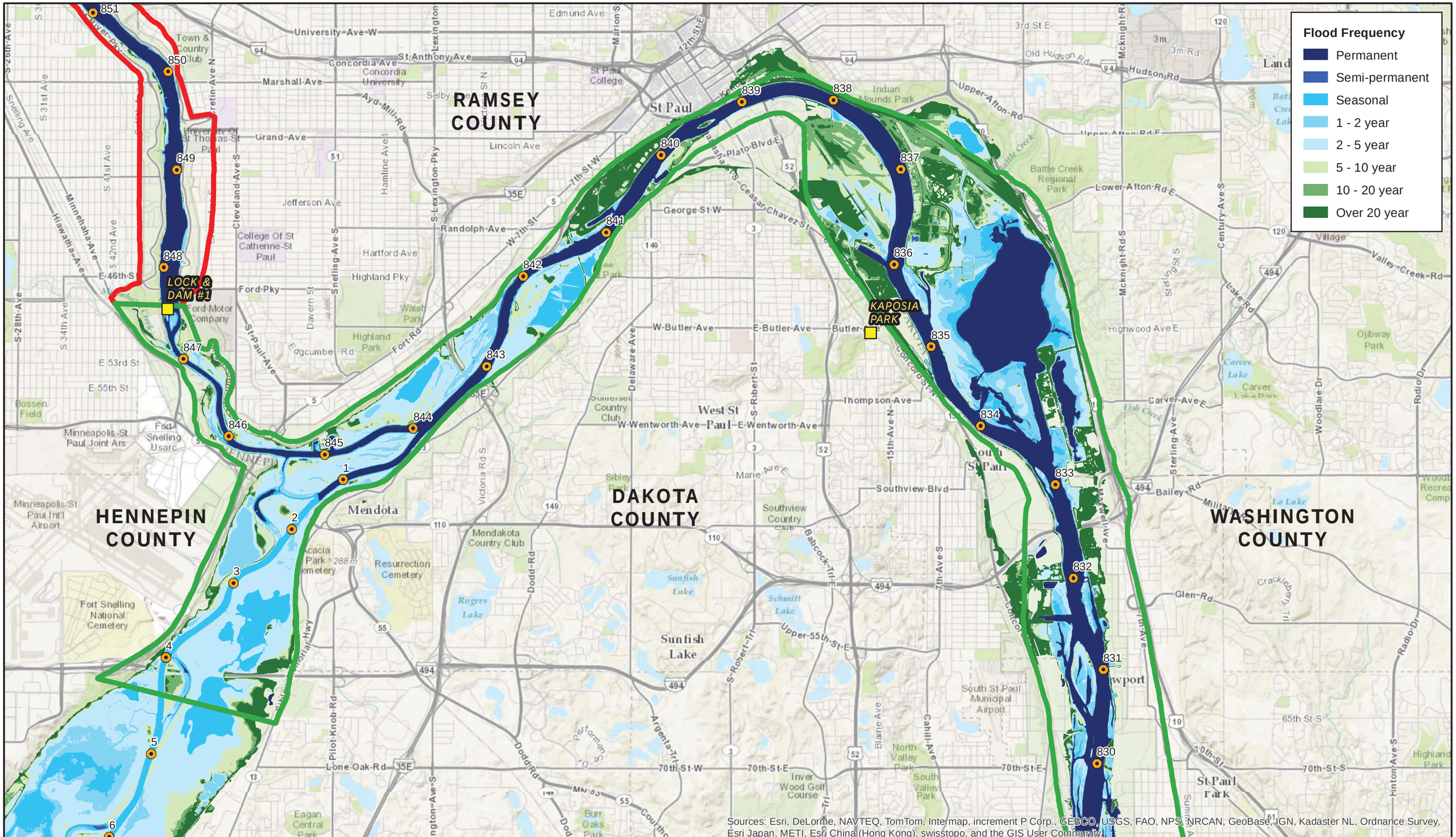

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix P - Flood Frequency
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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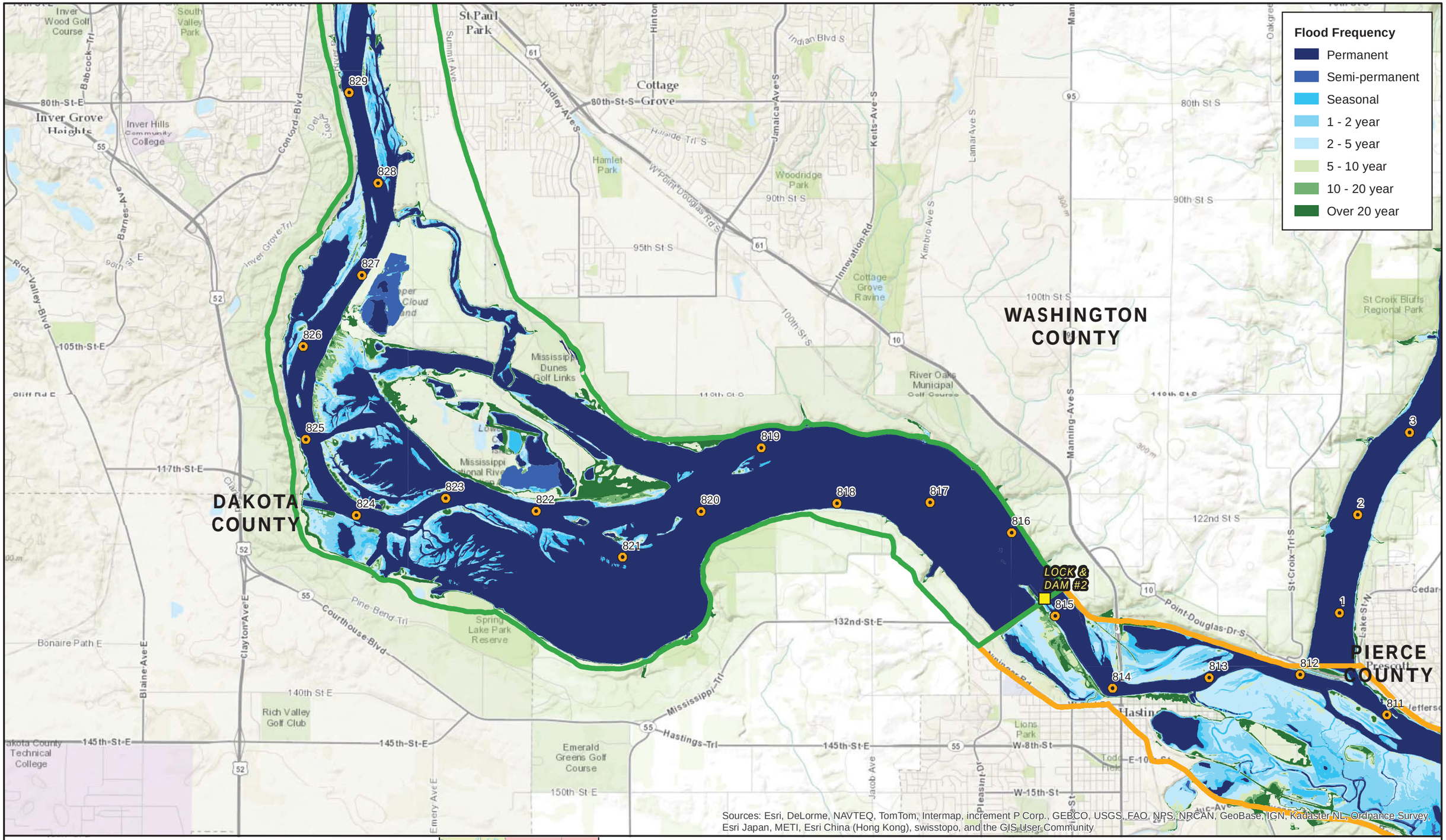

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix P - Flood Frequency
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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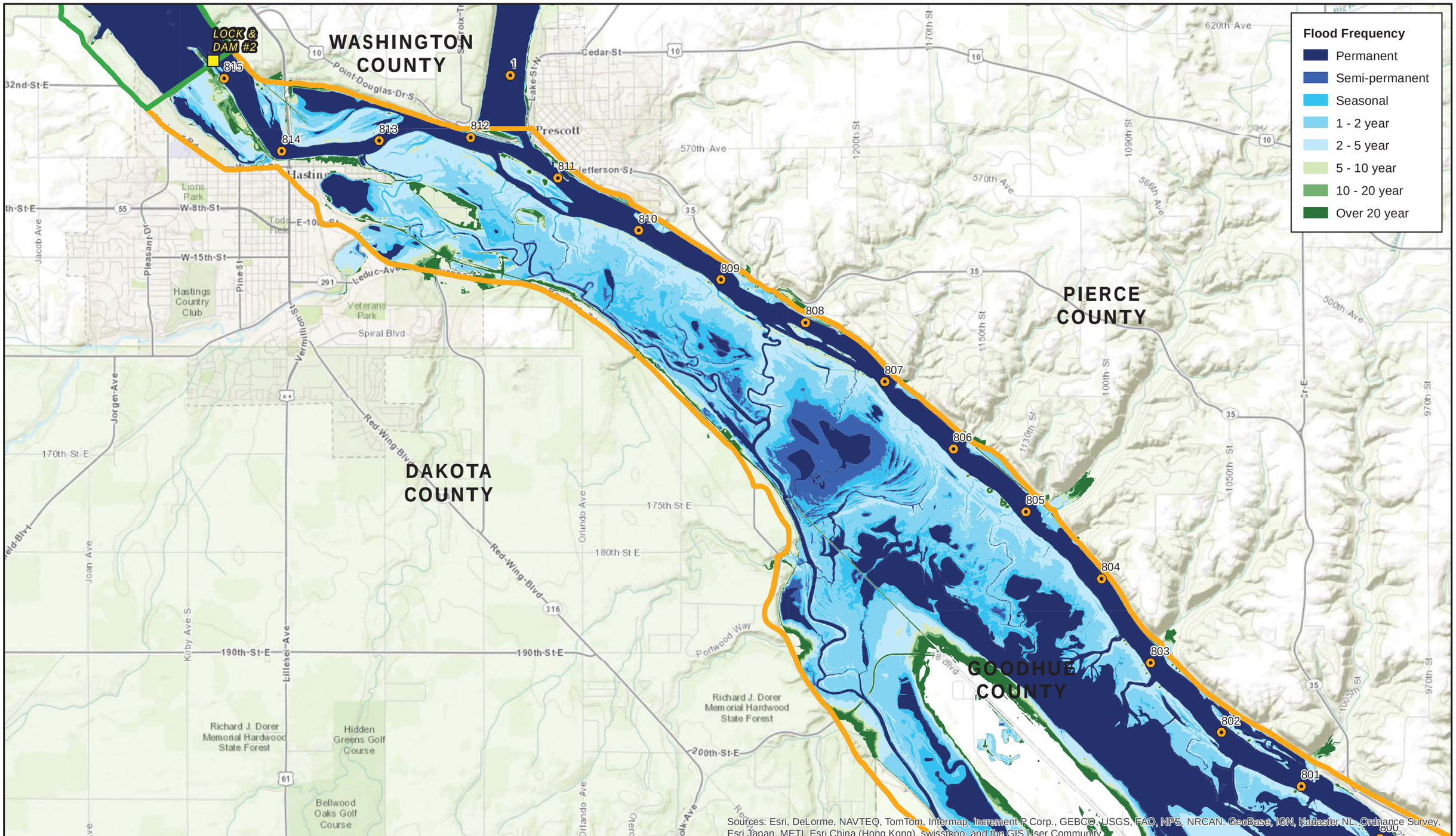

US Army Corps of Engineers

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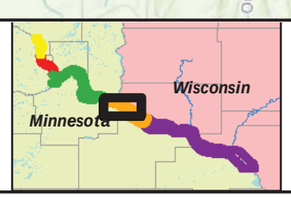
Map 11x17 Landscape



Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix P - Flood Frequency
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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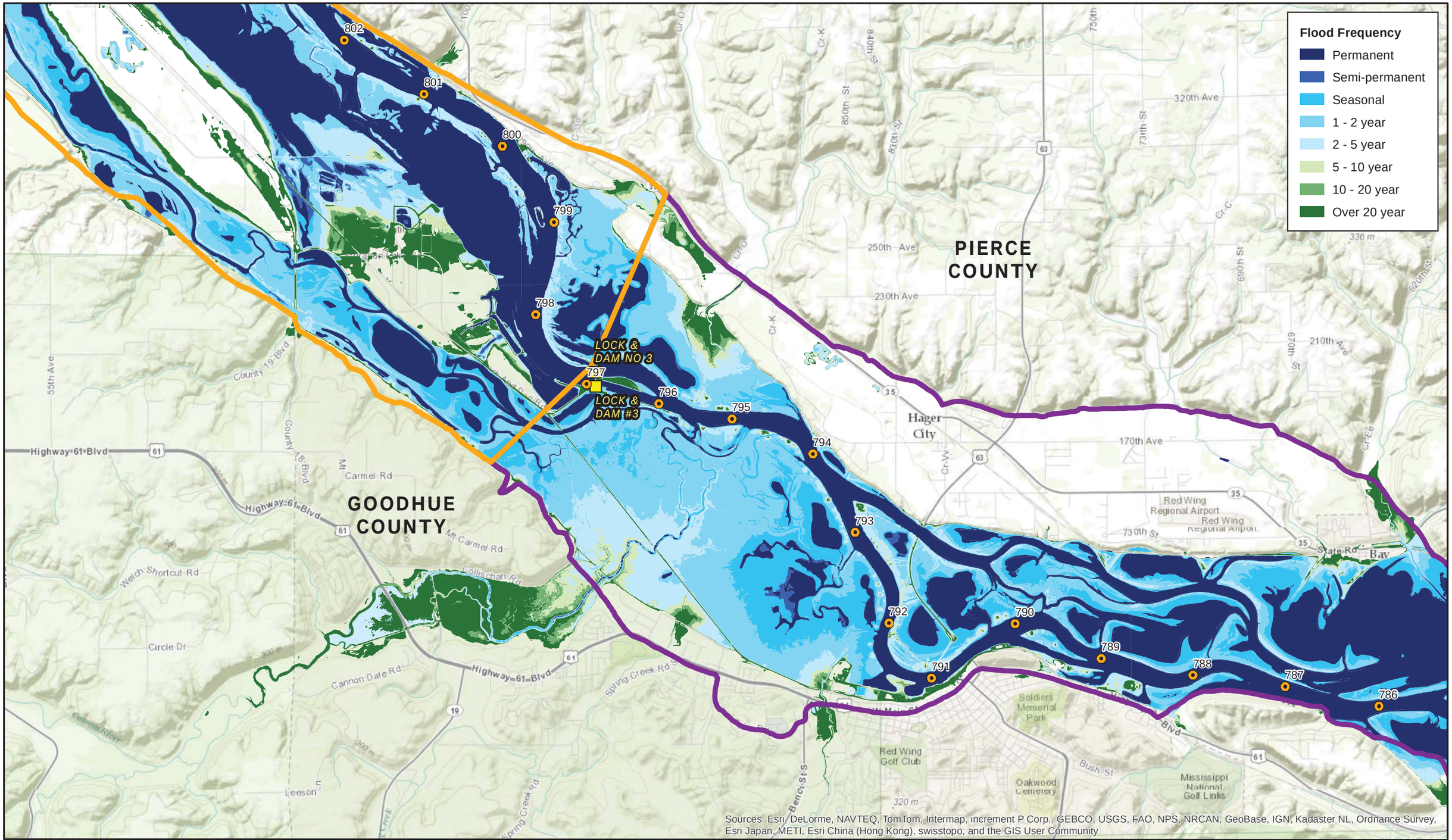

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix P - Flood Frequency
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

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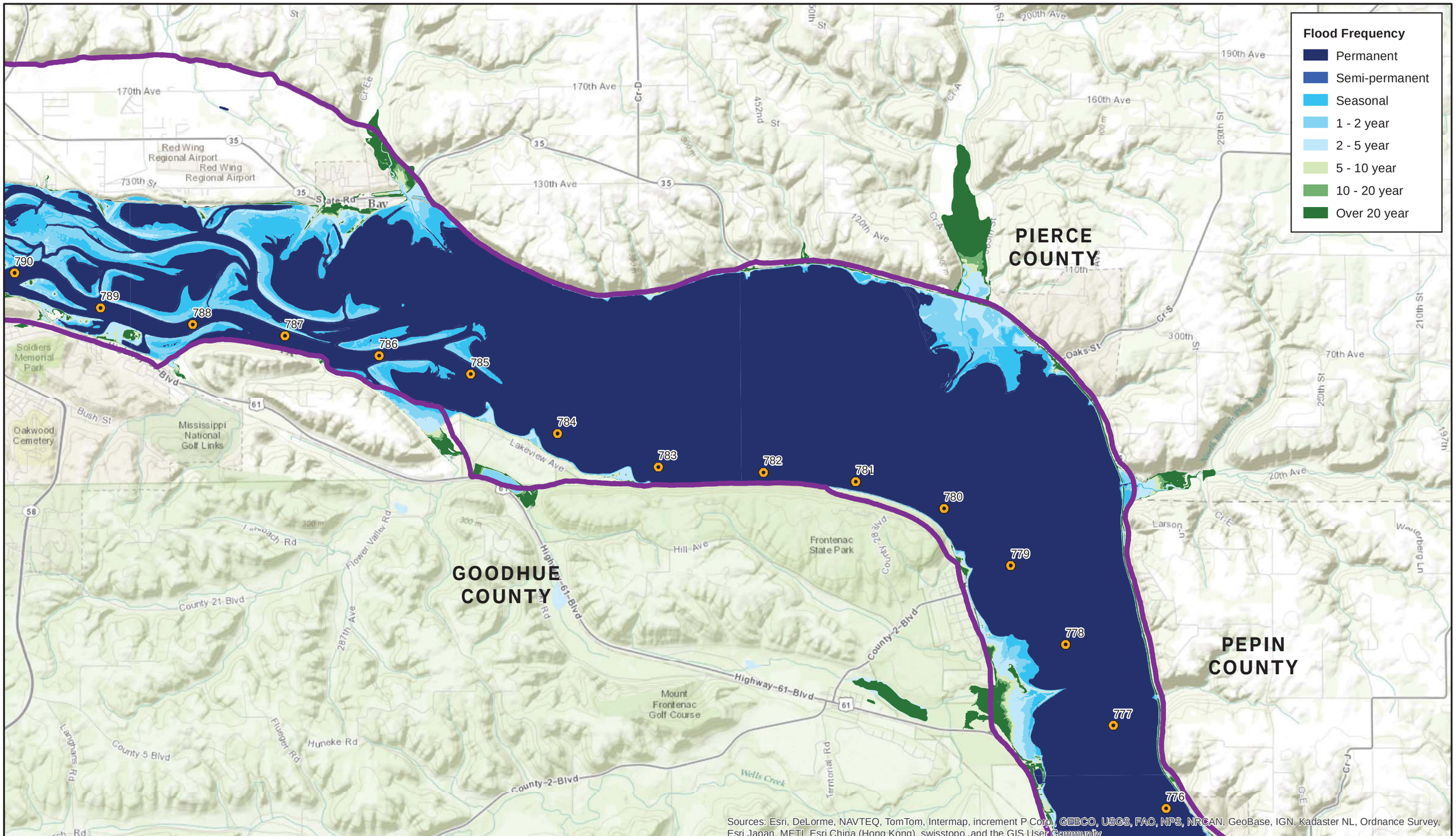

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix P - Flood Frequency
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

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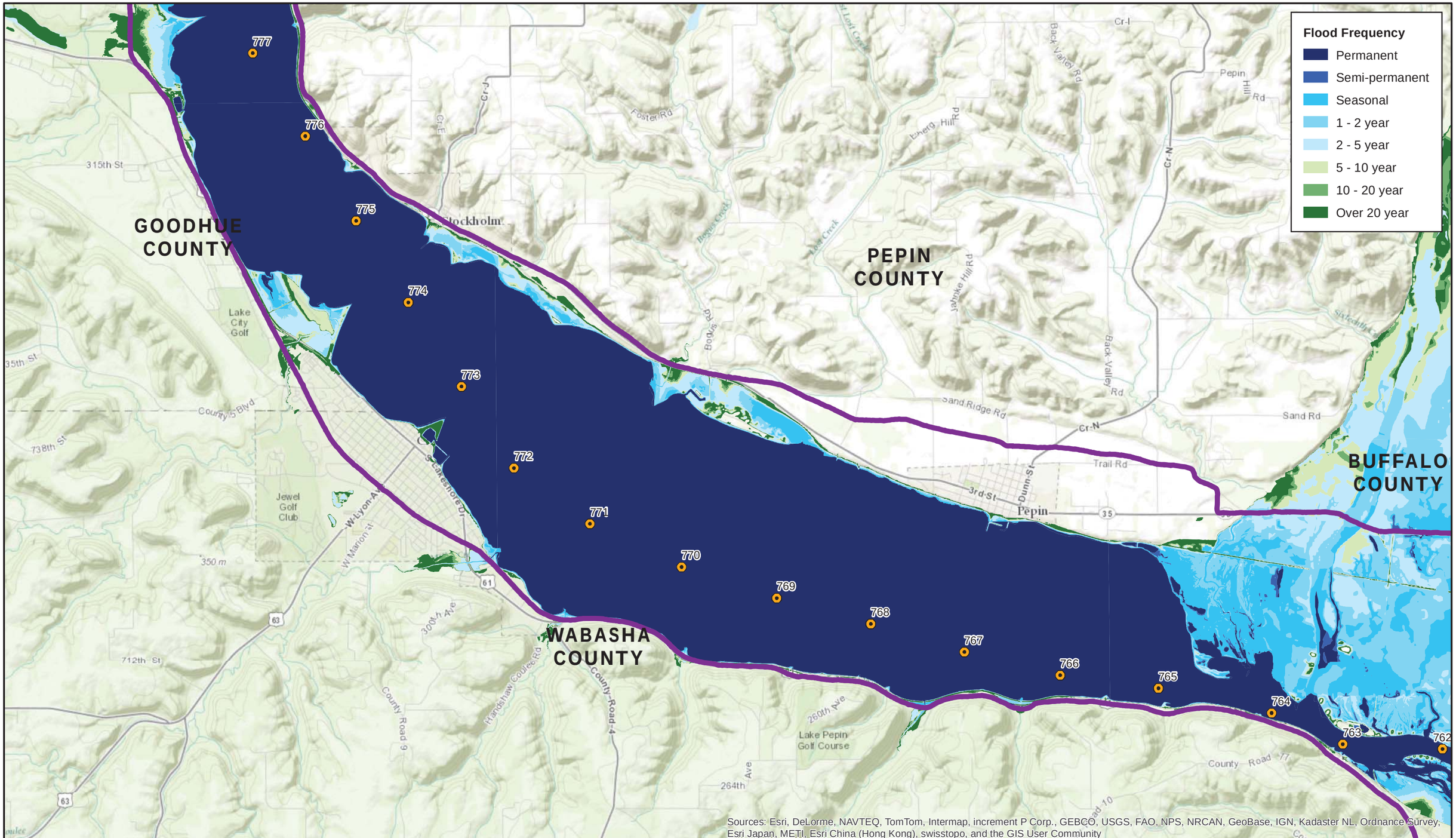

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix P - Flood Frequency
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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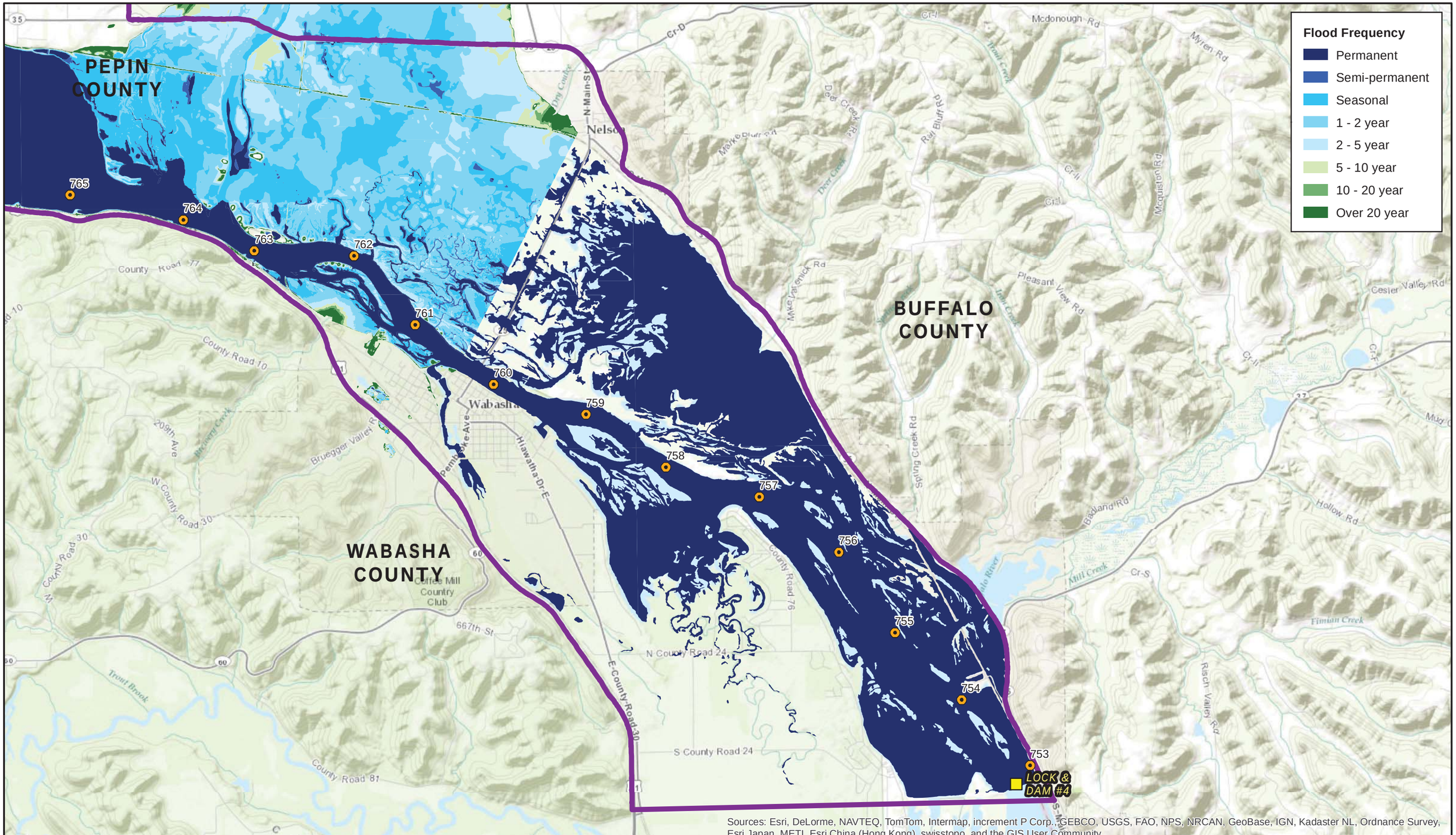

US Army Corps of Engineers

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Map 11x17 Landscape

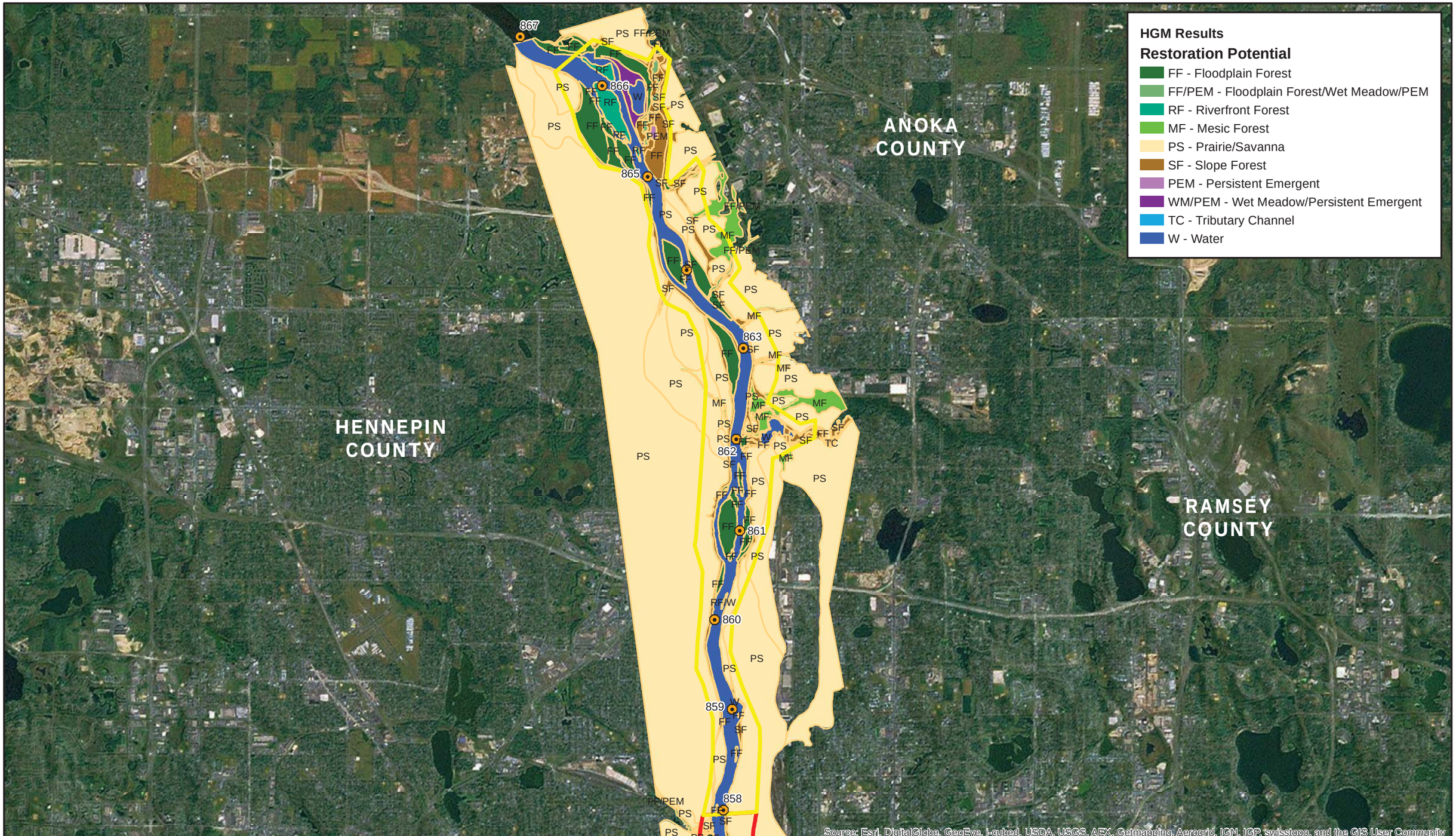
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix P - Flood Frequency
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_P_Flood Frequency LC_11X17L.mxd



US Army Corps of Engineers

HDR

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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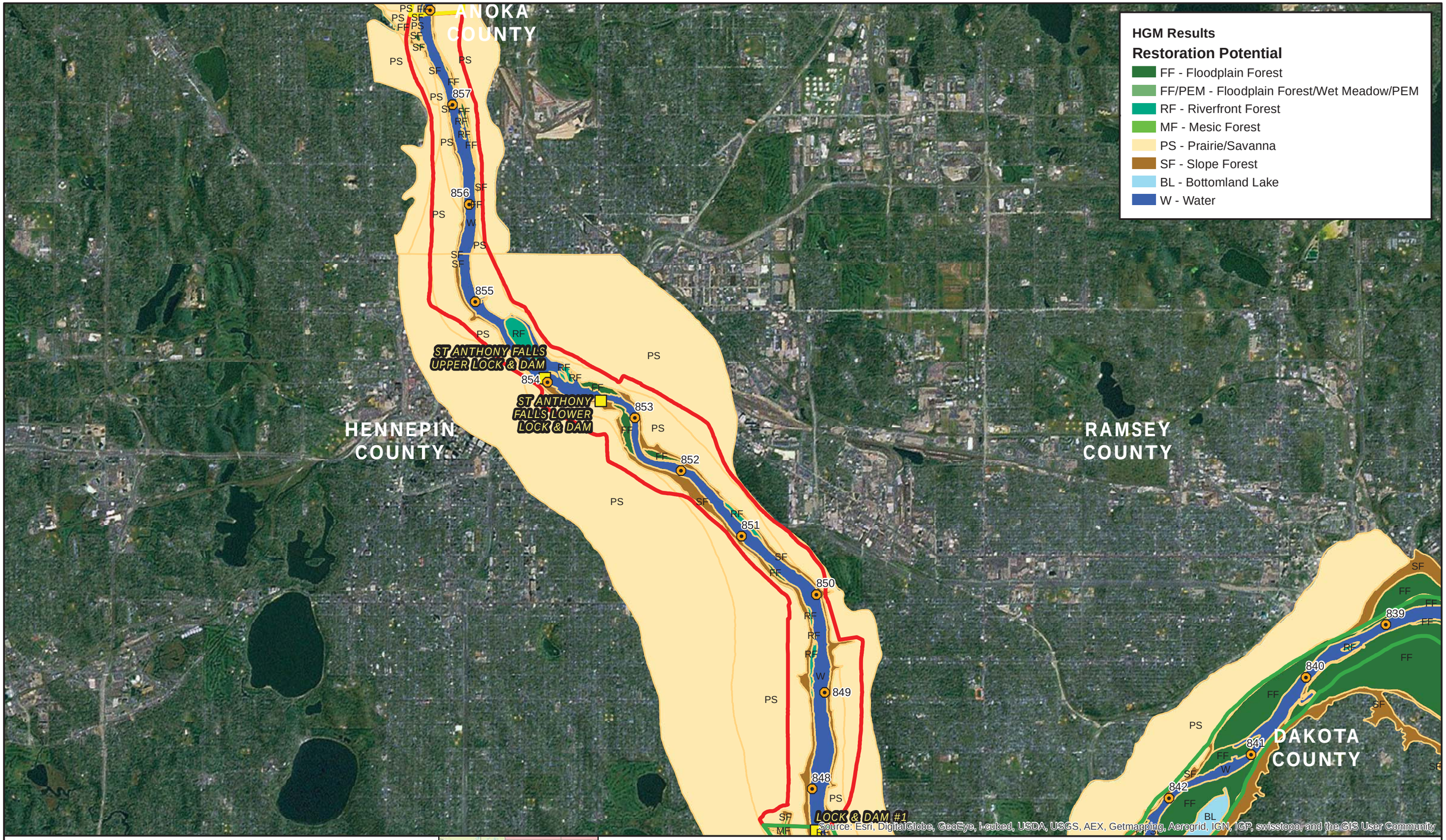

US Army Corps of Engineers

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Map 11x17 Landscape

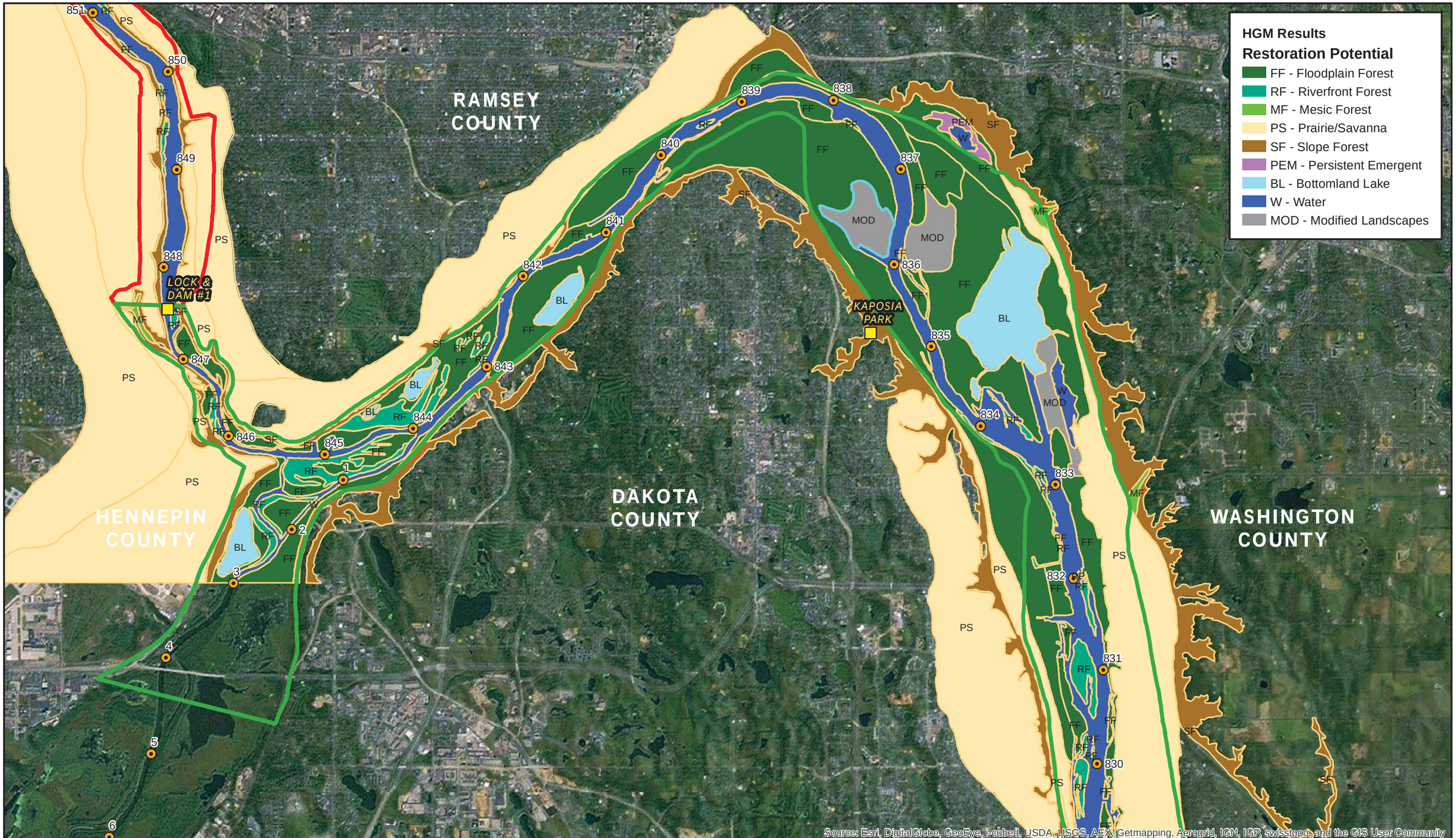
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_Q_HGM_Restoration_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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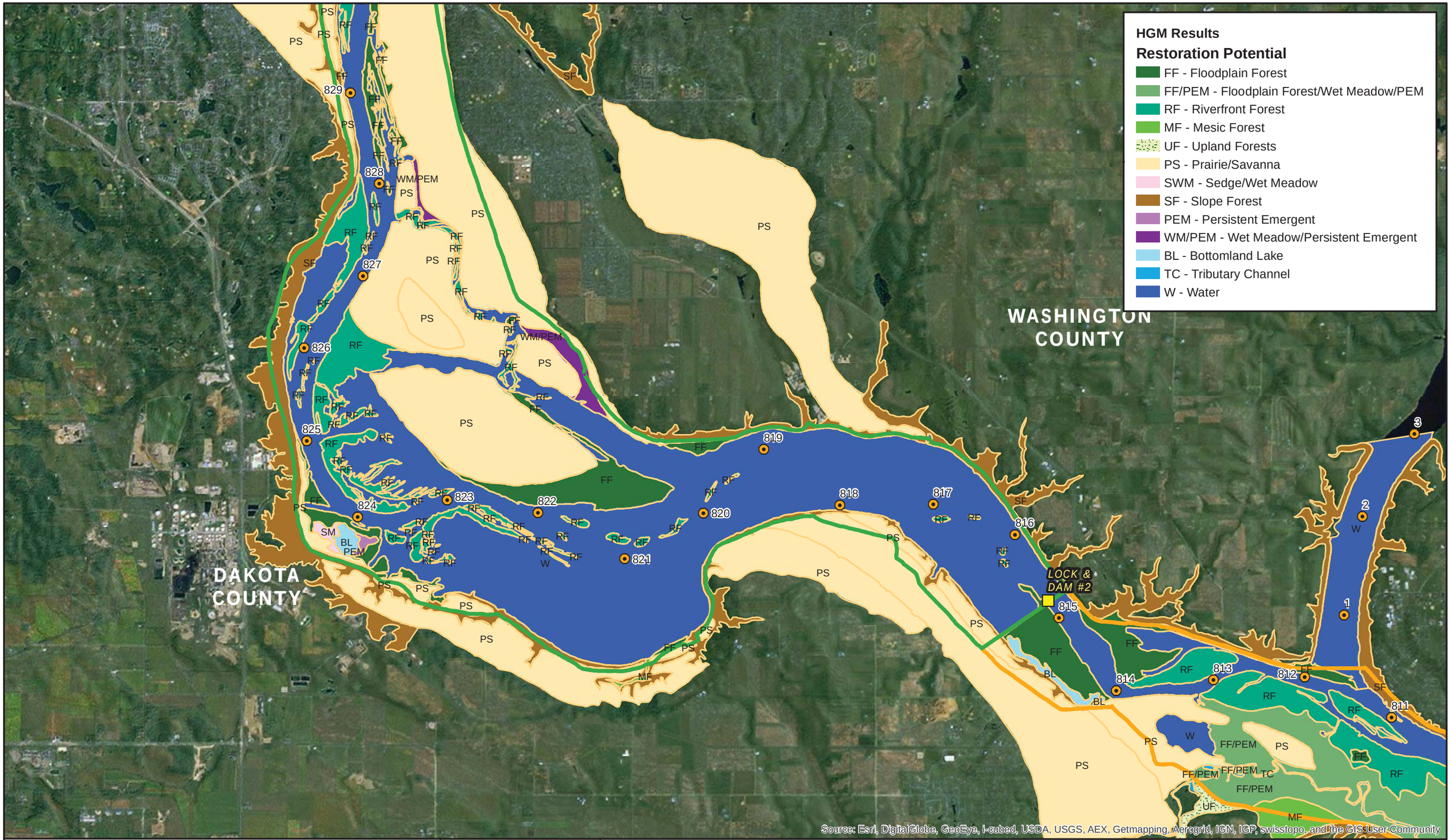

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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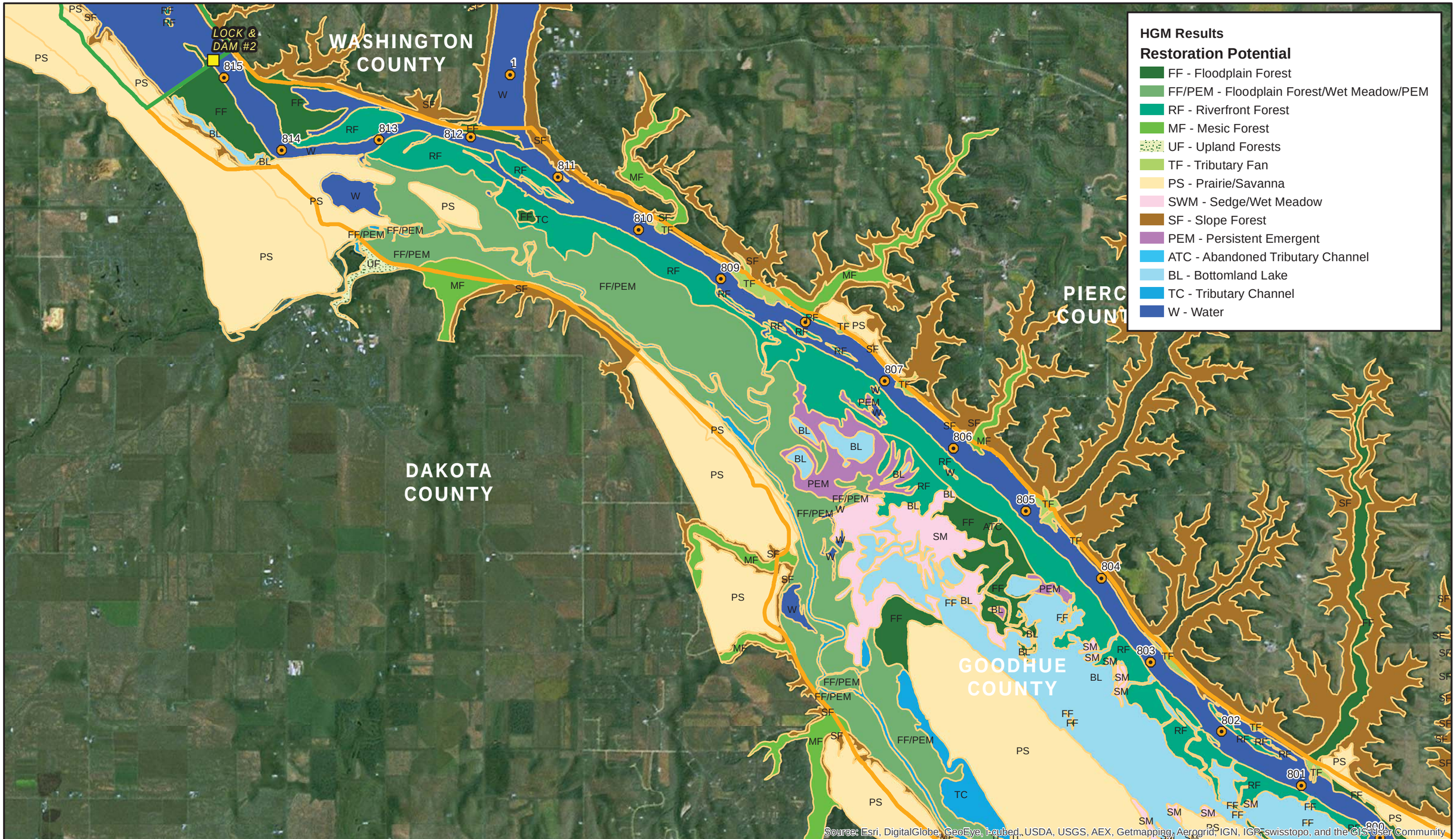

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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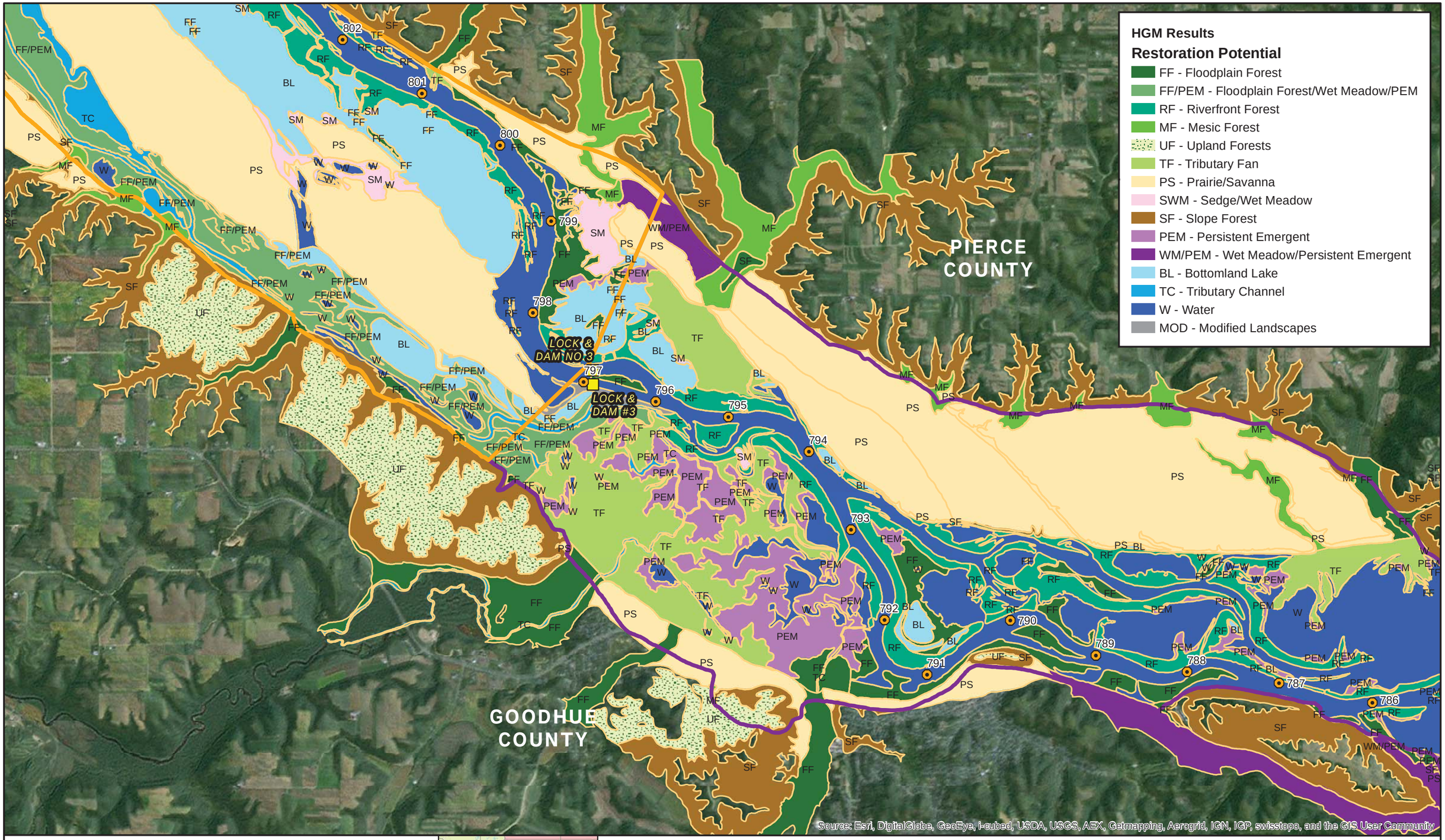

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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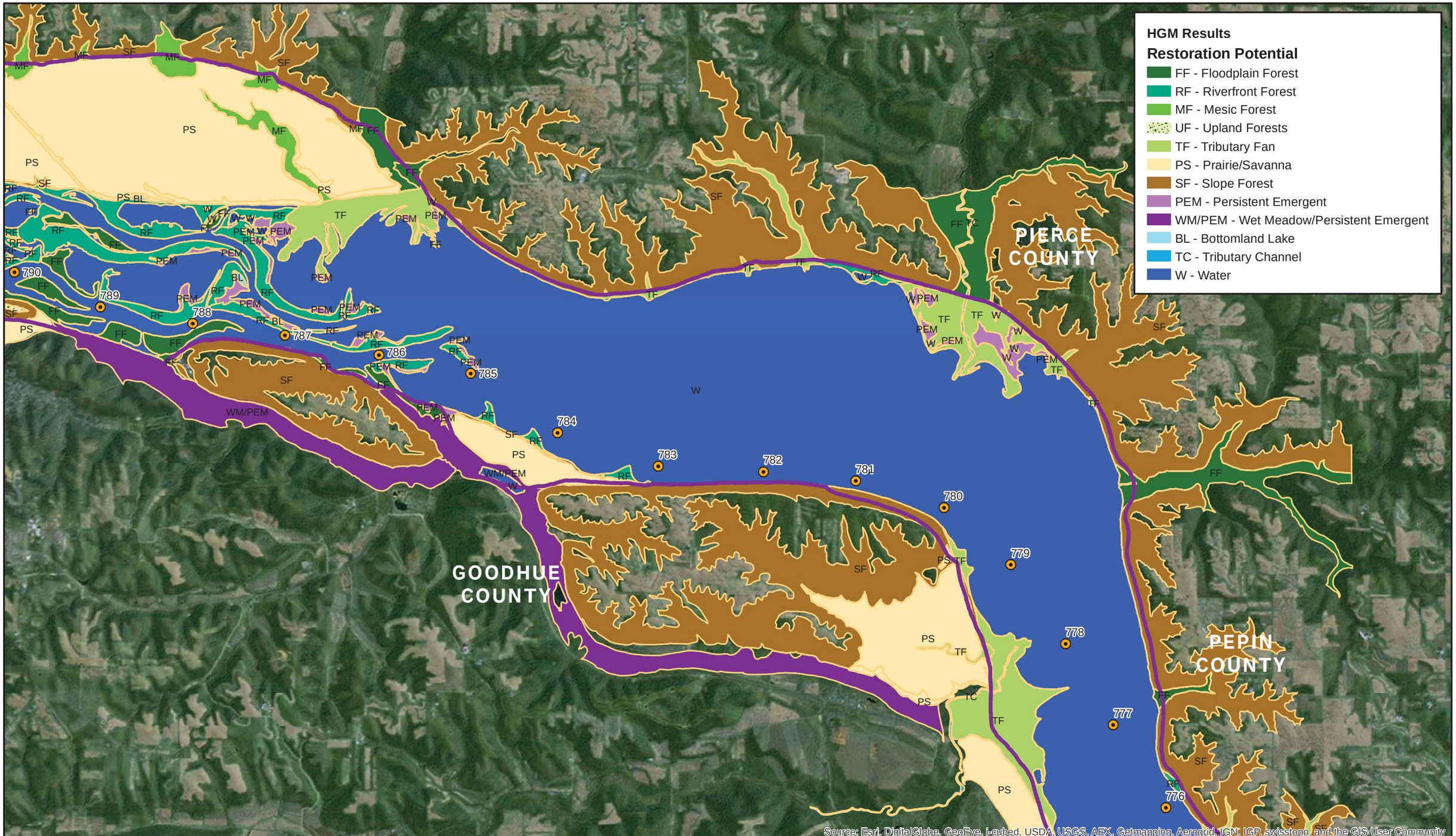

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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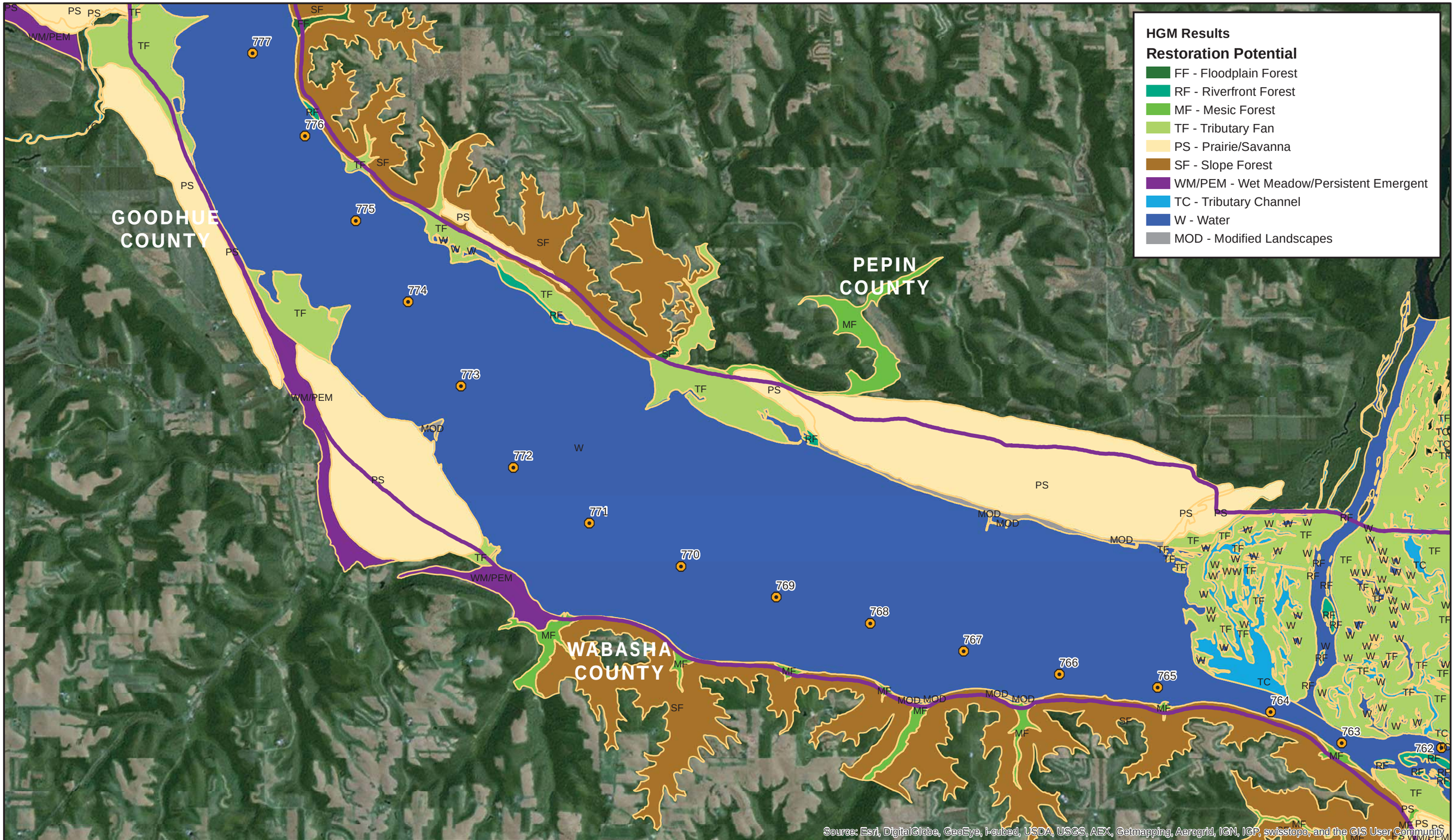

US Army Corps of Engineers

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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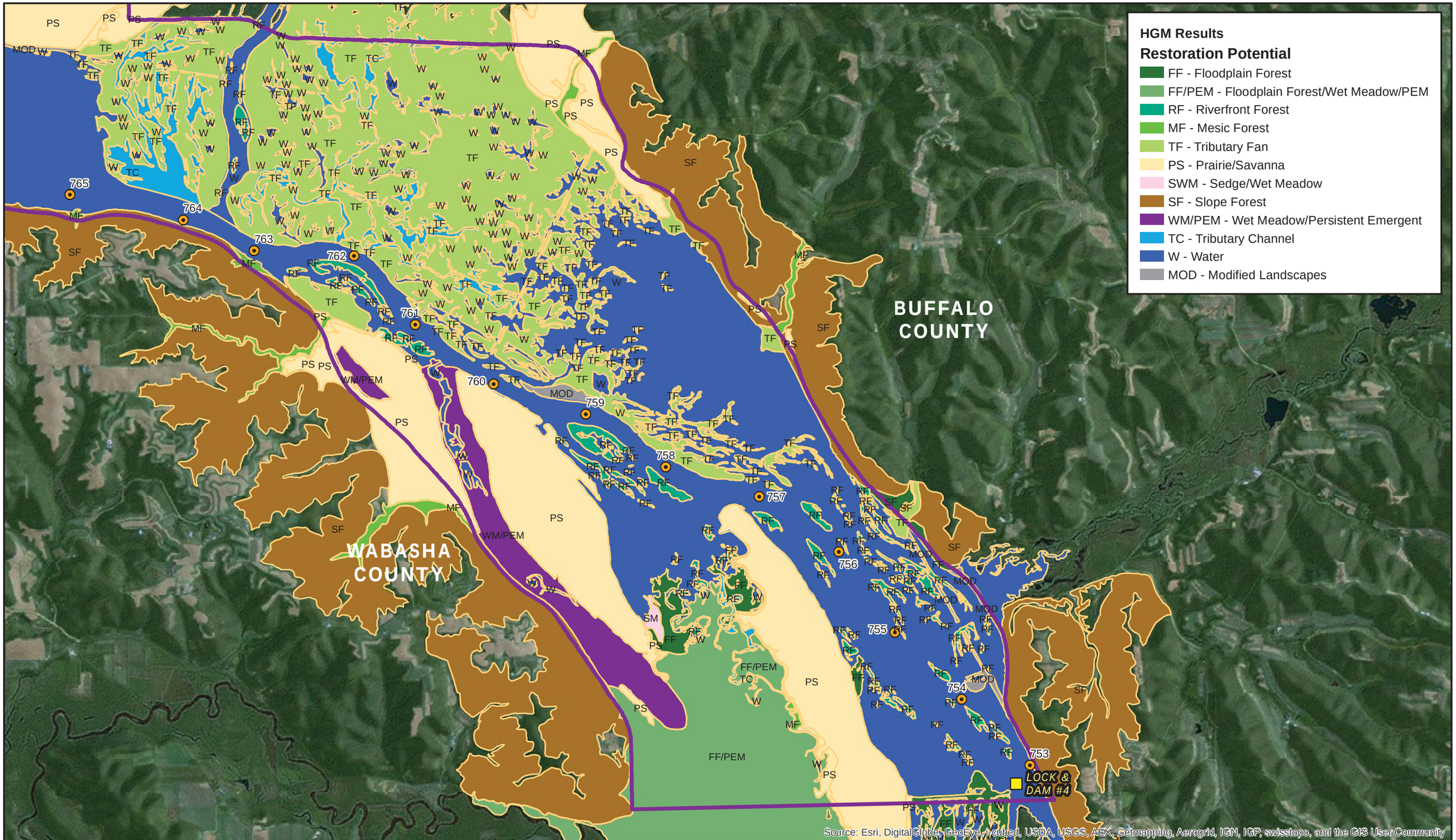


US Army Corps of Engineers

HDR

N

0 0.5 1

Miles

1:58,000

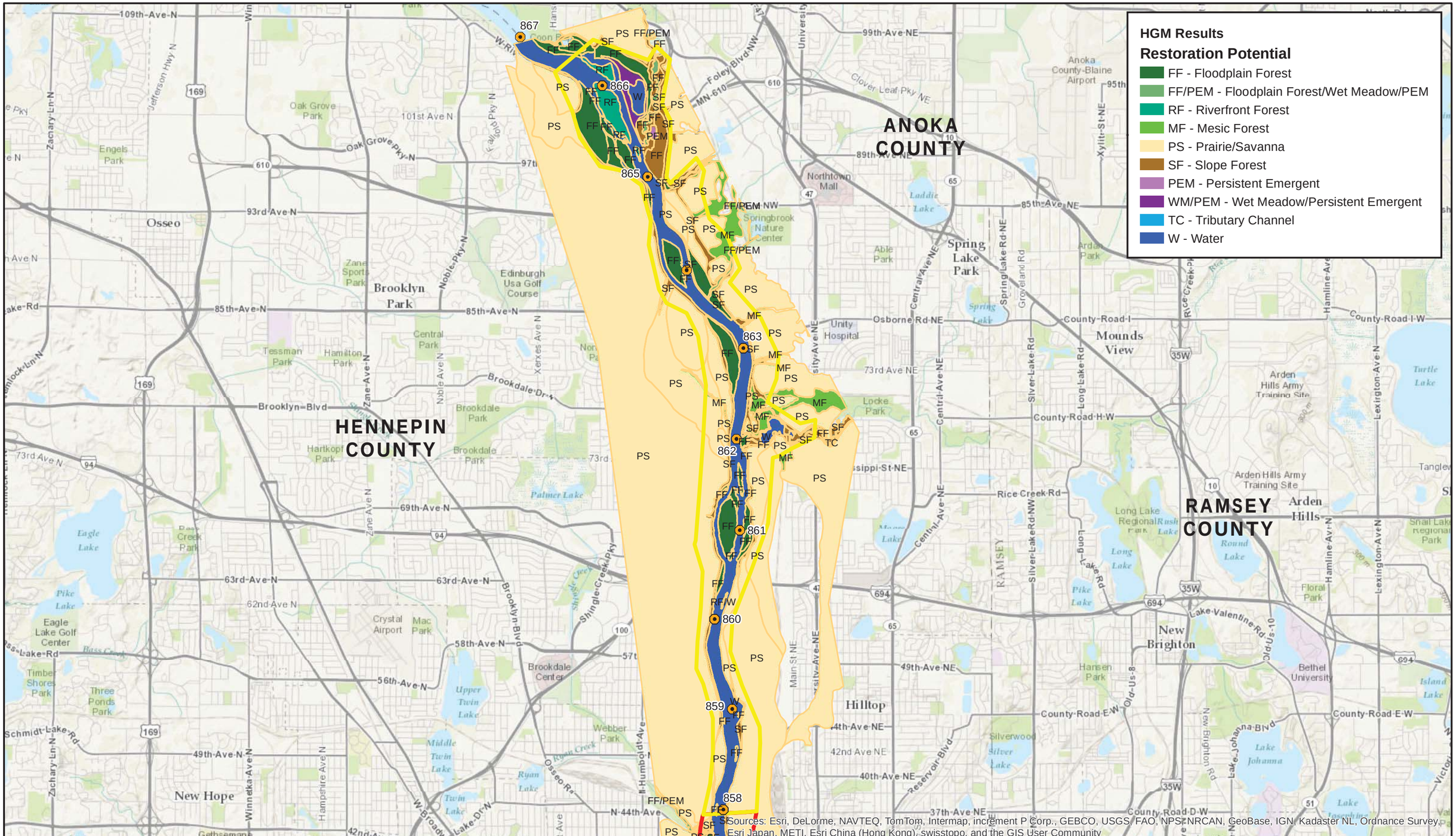
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix Q - HGM Restoration Potential
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_Q_HGM_Restoration_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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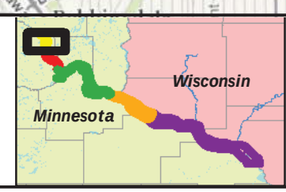
Map 11x17 Landscape



Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Coon Rapids to St. Anthony Pool: Page 1 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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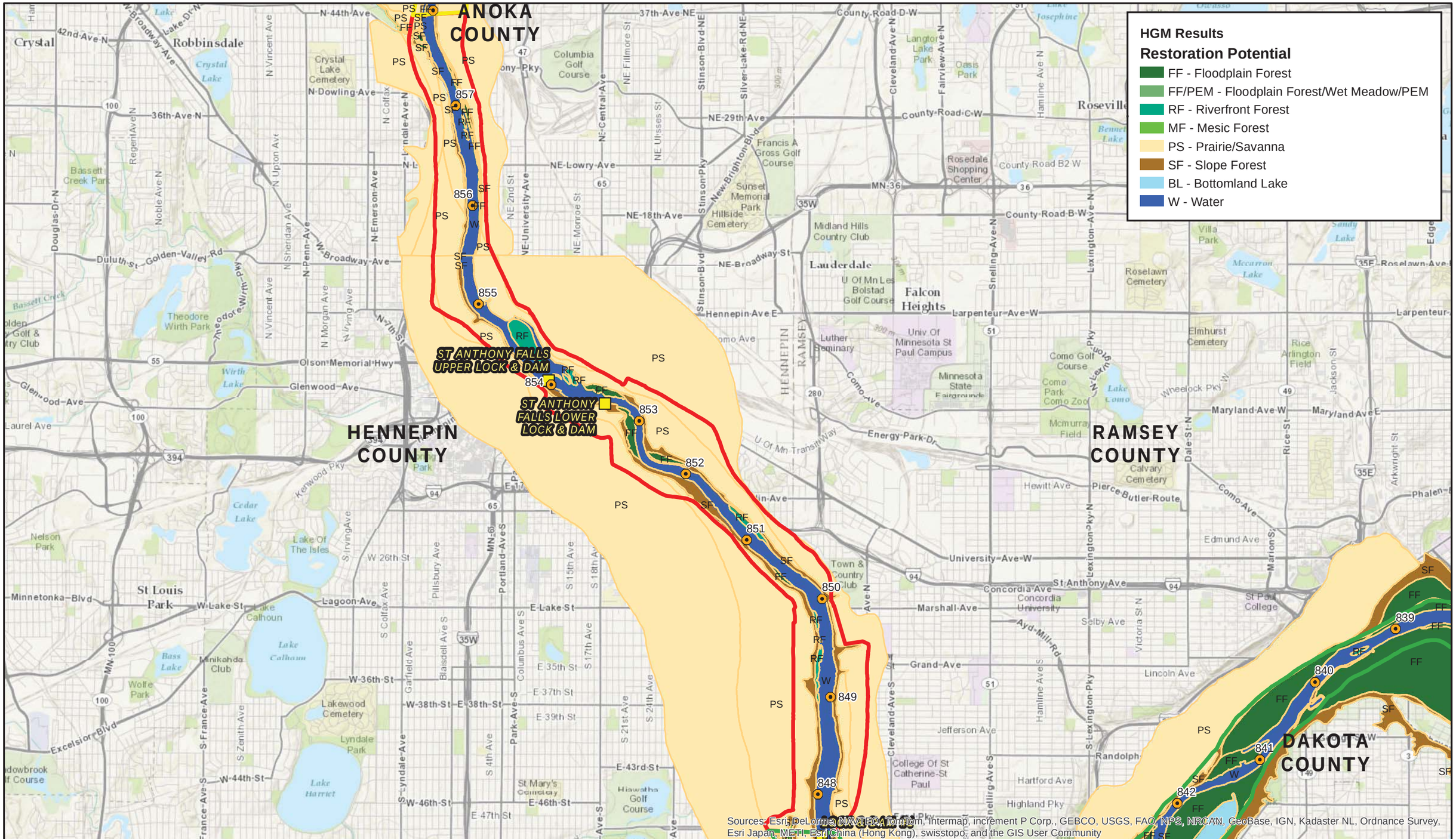

US Army Corps of Engineers

HDR

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0 0.5 1

Miles

1:58,000

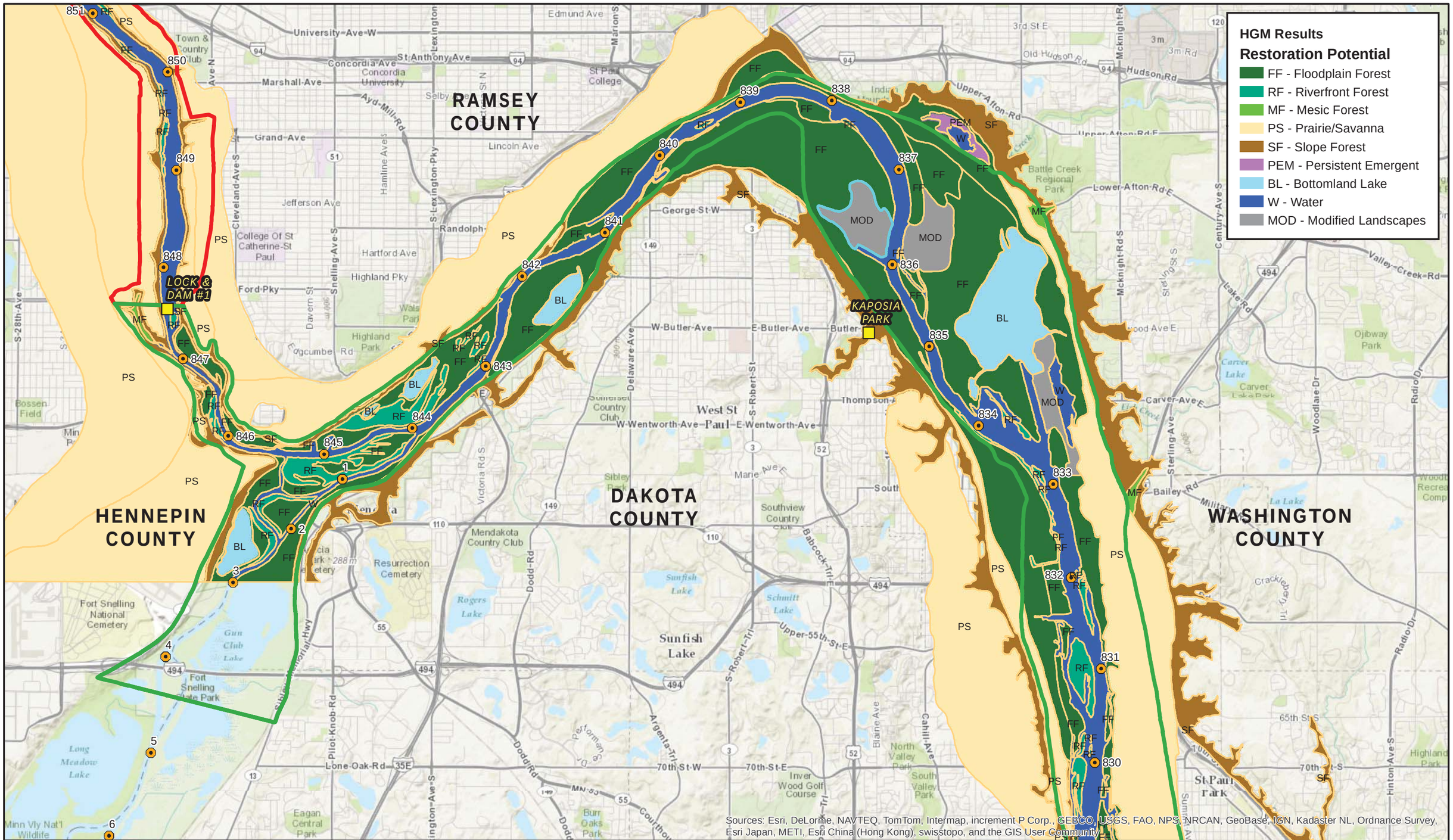
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Pool 1: Page 2 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_R_HGM_Restoration_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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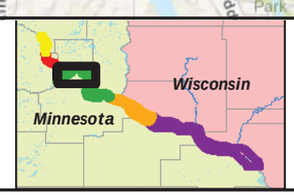
Map 11x17 Landscape



Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Pool 2 (Upper): Page 3 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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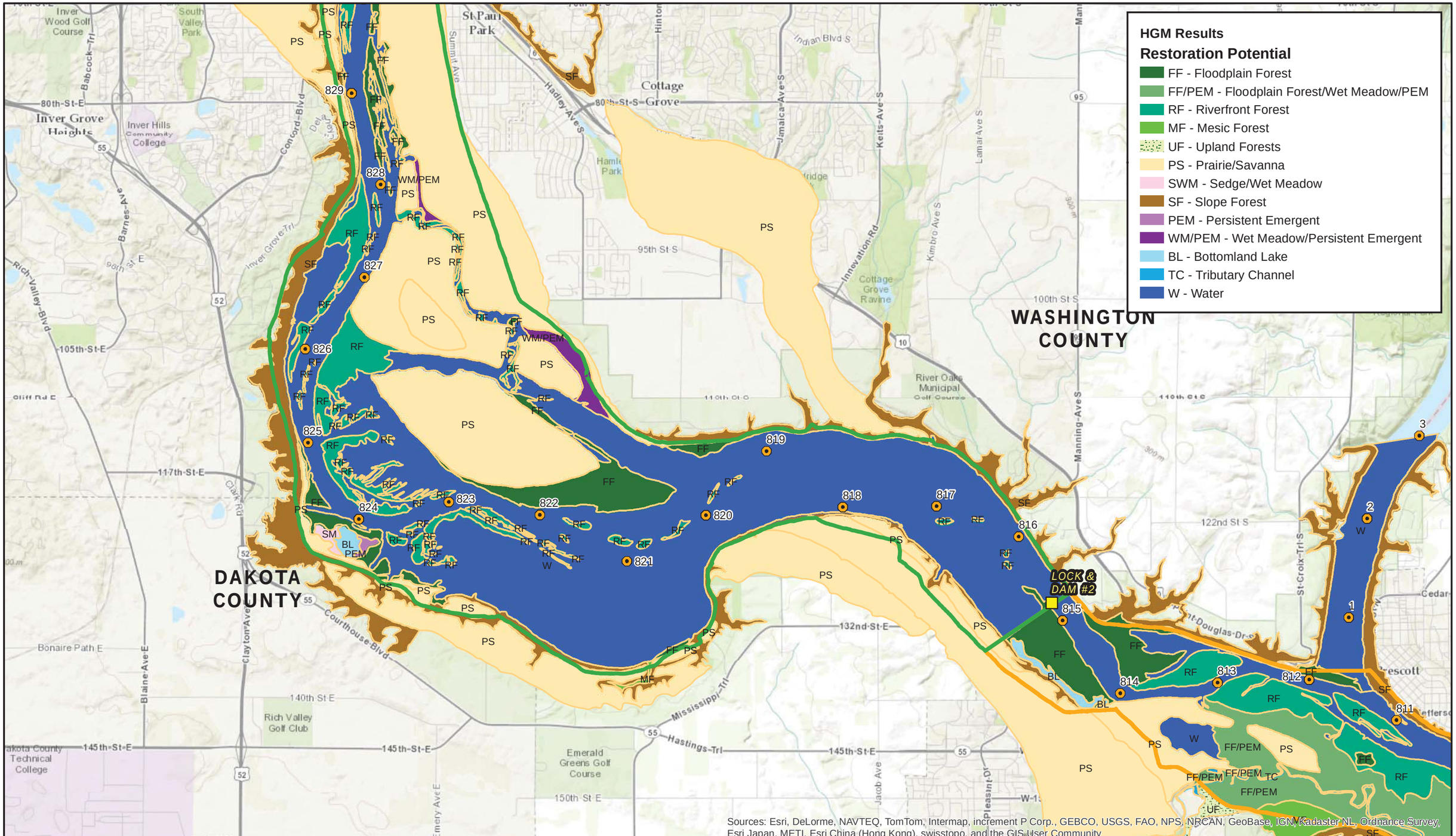

US Army Corps of Engineers

HDR

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Miles

1:58,000

Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Pool 2 (Lower): Page 4 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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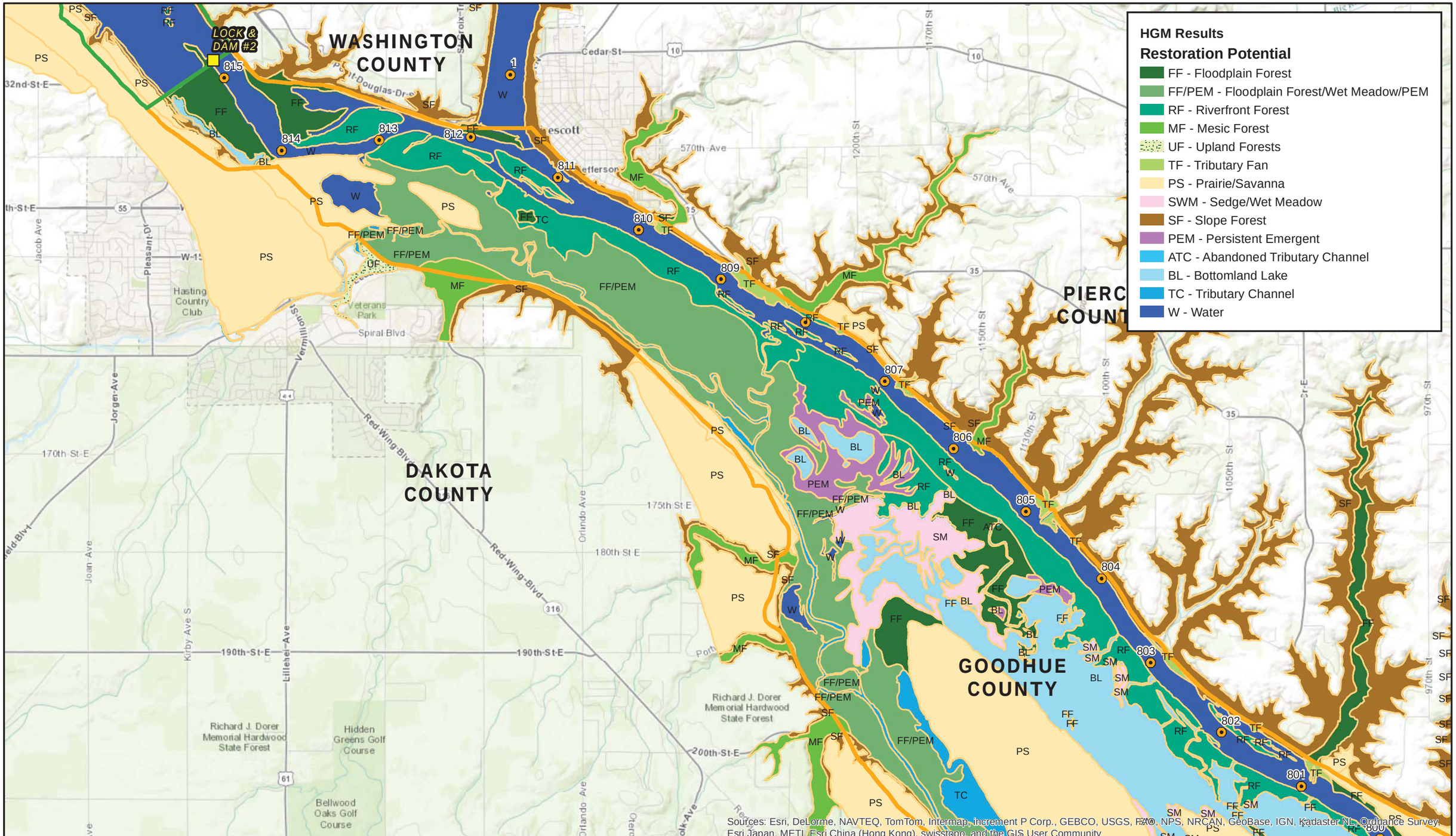

US Army Corps of Engineers

HDR

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Miles

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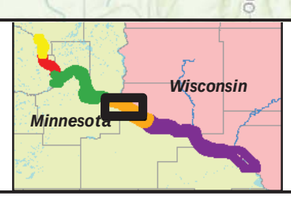
Map 11x17 Landscape



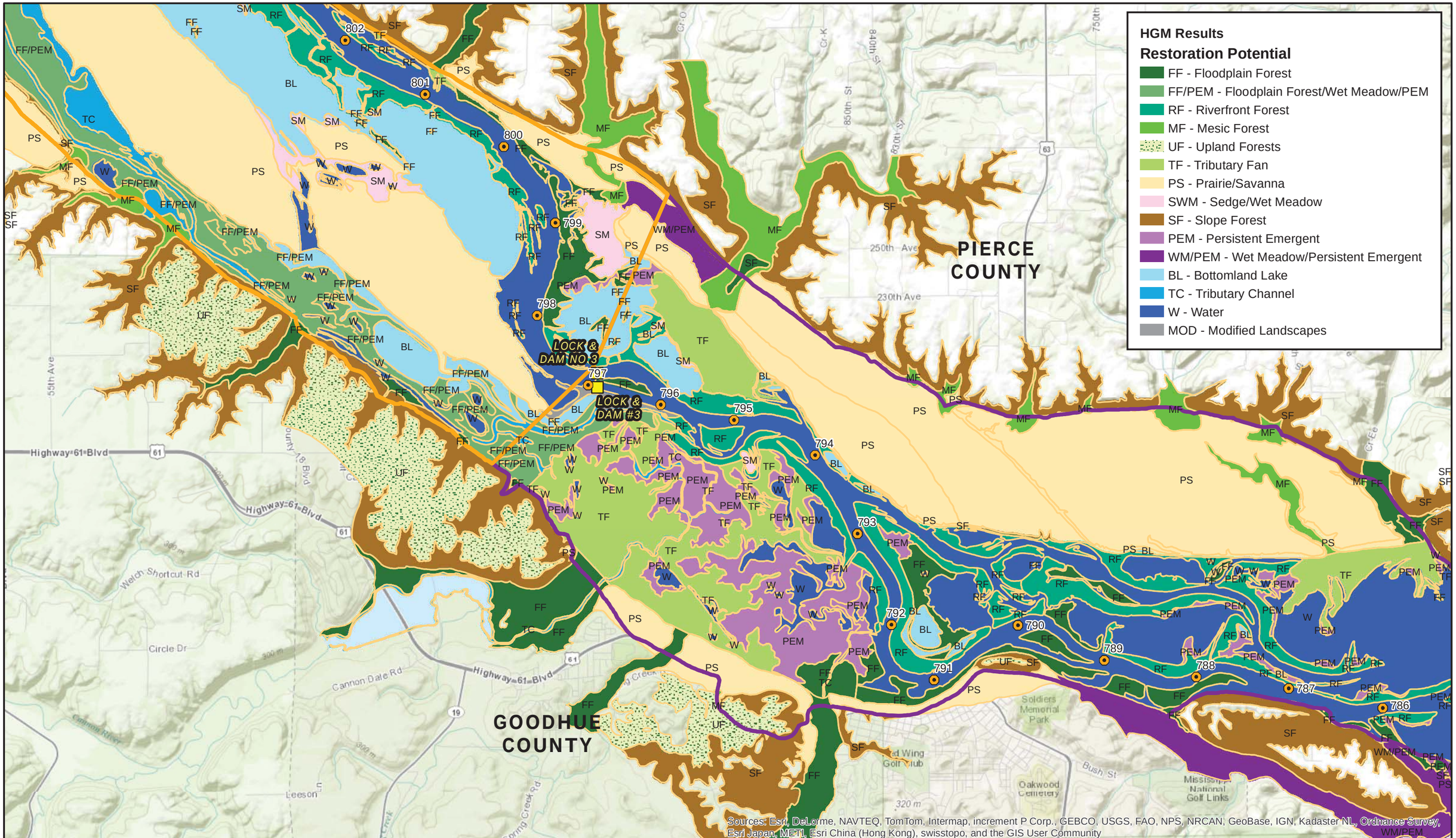
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Pool 3 (Upper): Page 5 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_R_HGM_Restoration_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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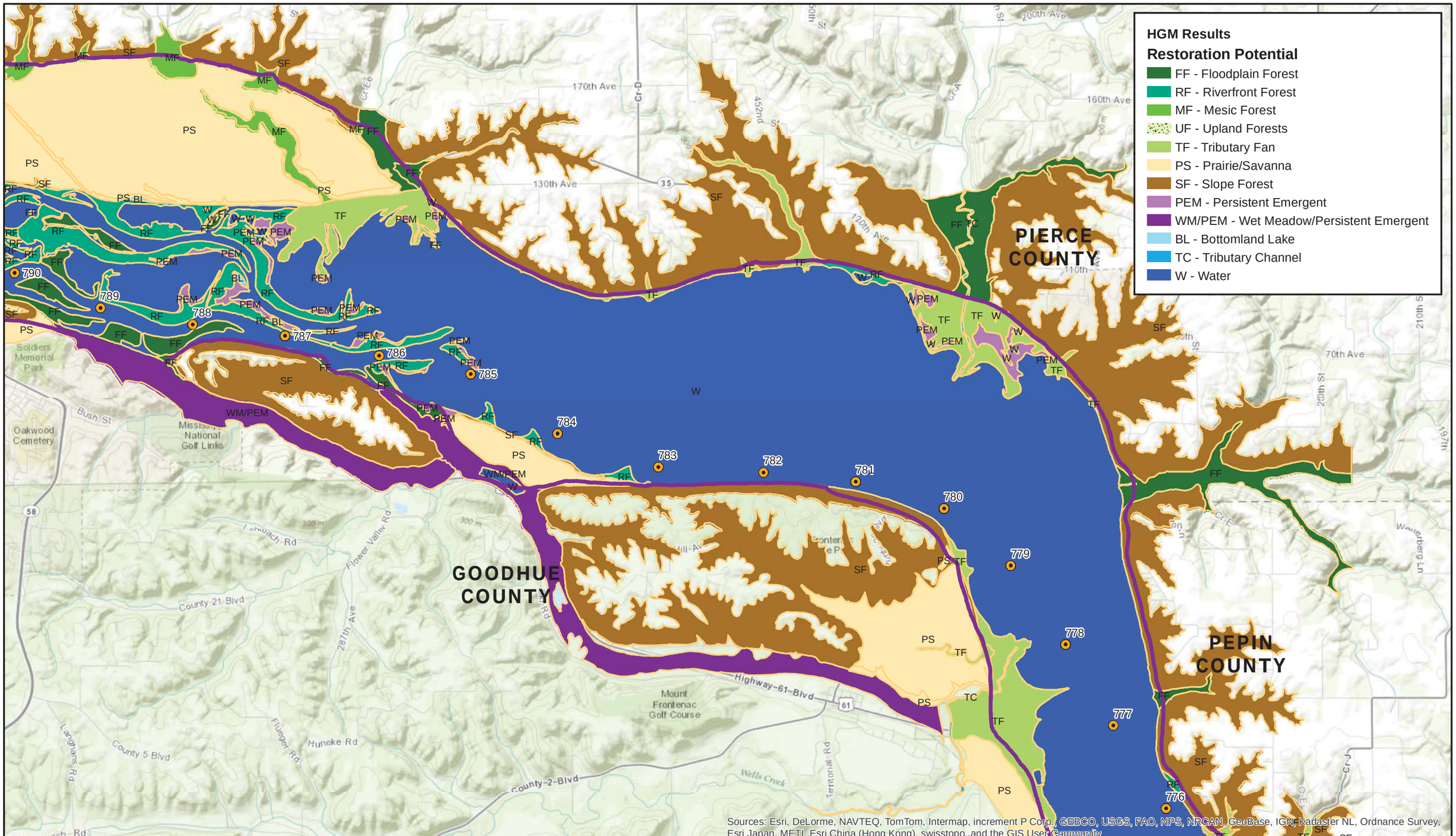
Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Pool 3 (Lower) - Pool 4 (Upper): Page 6 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_R_HGM_Restoration_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

1:58,000

Map 11x17 Landscape

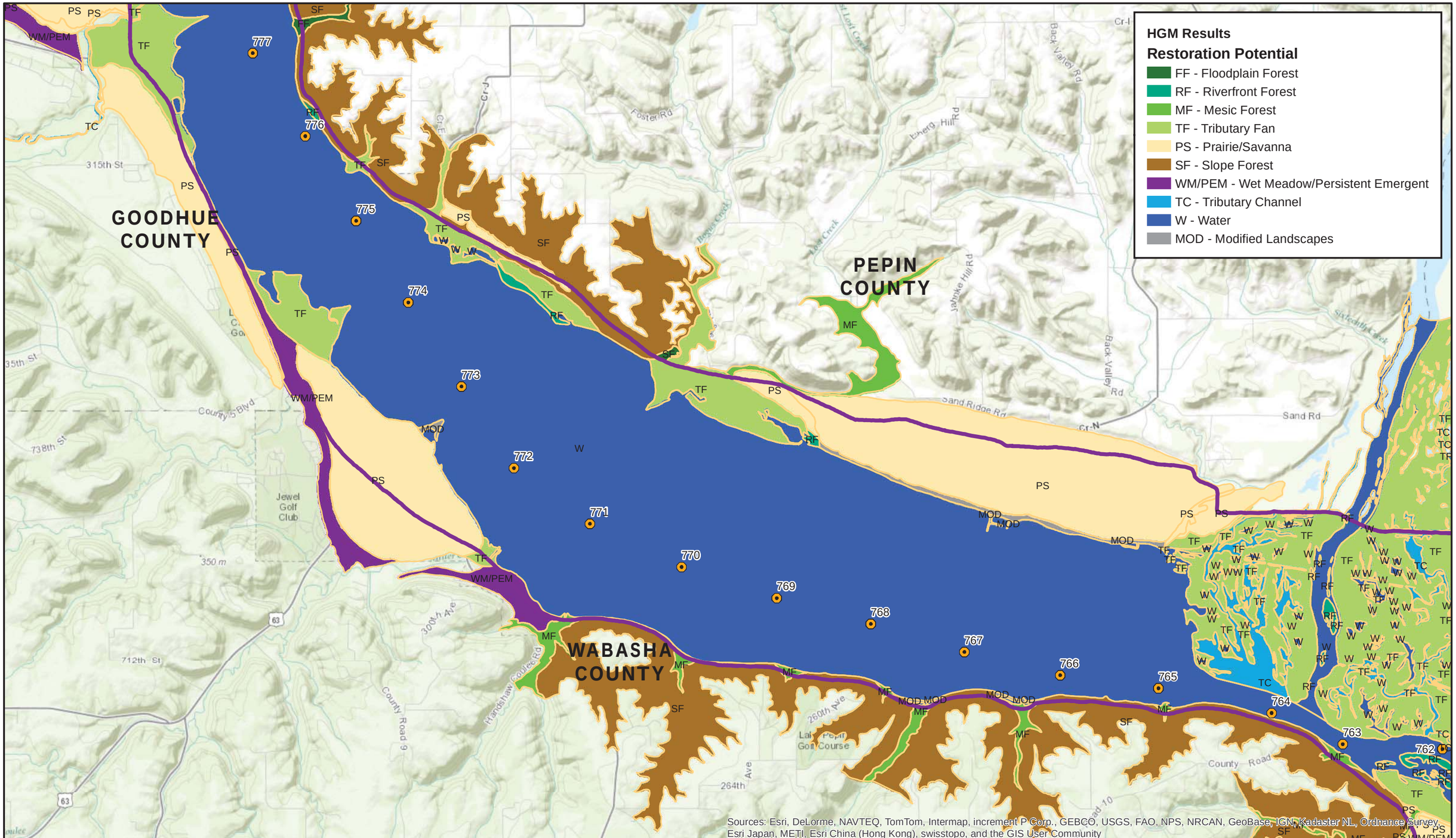
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Pool 4 (Upper Middle): Page 7 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_R_HGM_Restoration_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

1:58,000

Map 11x17 Landscape

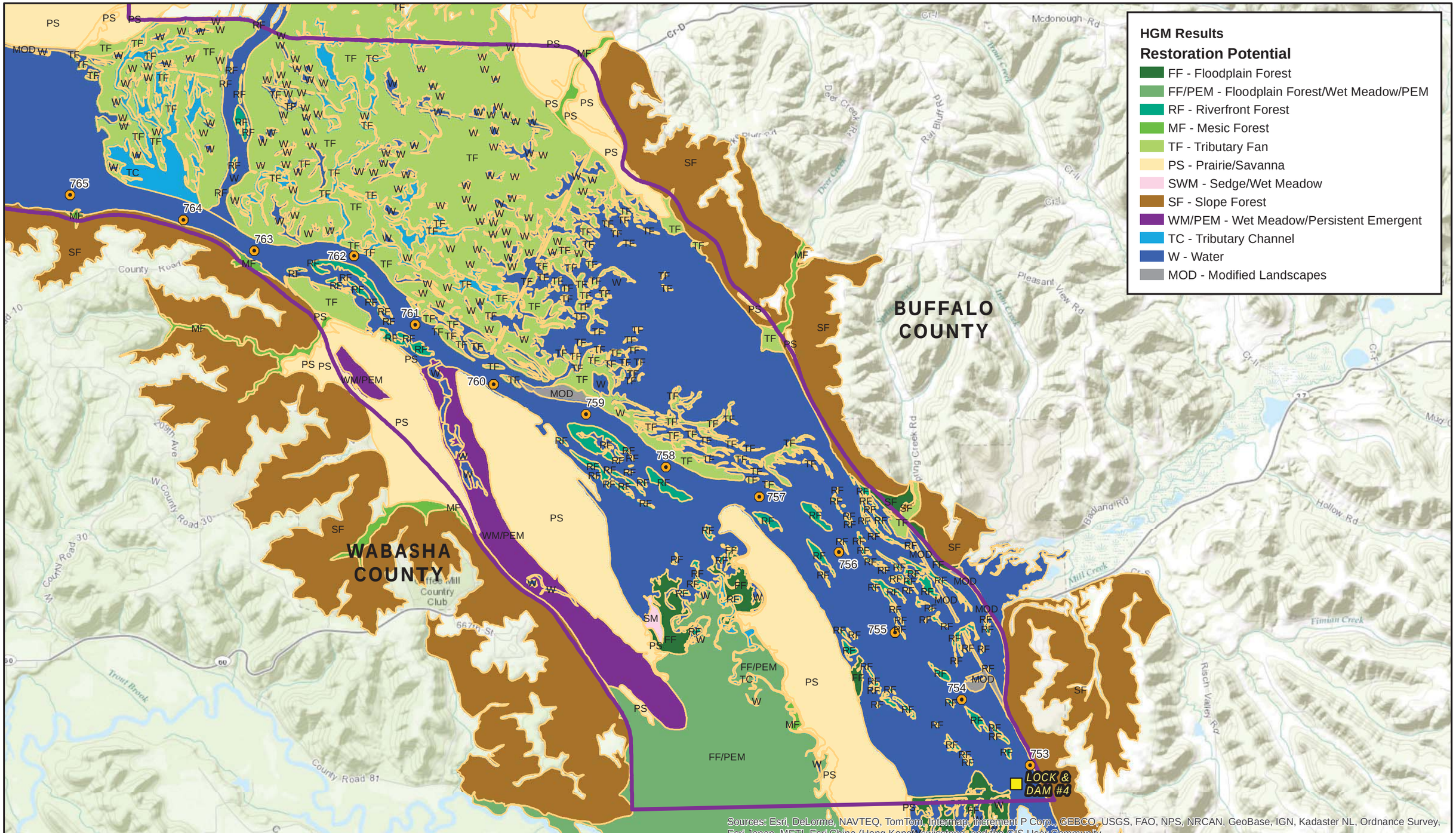
Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool

- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Pool 4 (Lower Middle): Page 8 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

Document Path: \\mspe-gis-file\GISProjLarge\USACE\194061\map_docs\Appendix\Appendix_R_HGM_Restoration_11X17L.mxd



US Army Corps of Engineers

HDR

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Miles

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Map 11x17 Landscape

Reach Boundaries

- Pool 1
- Pool 2
- Pool 3
- Pool 4
- St. Anthony/Coon Rapids Pool
- Dam
- River Mile Marker

Appendix R - HGM Restoration Potential
Pool 4 (Lower): Page 9 of 9
Hydrogeomorphic Modeling Analysis
Evaluation of the Northern Ecoregion of the
Upper Mississippi River System

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