



Appendix B

Project Maps

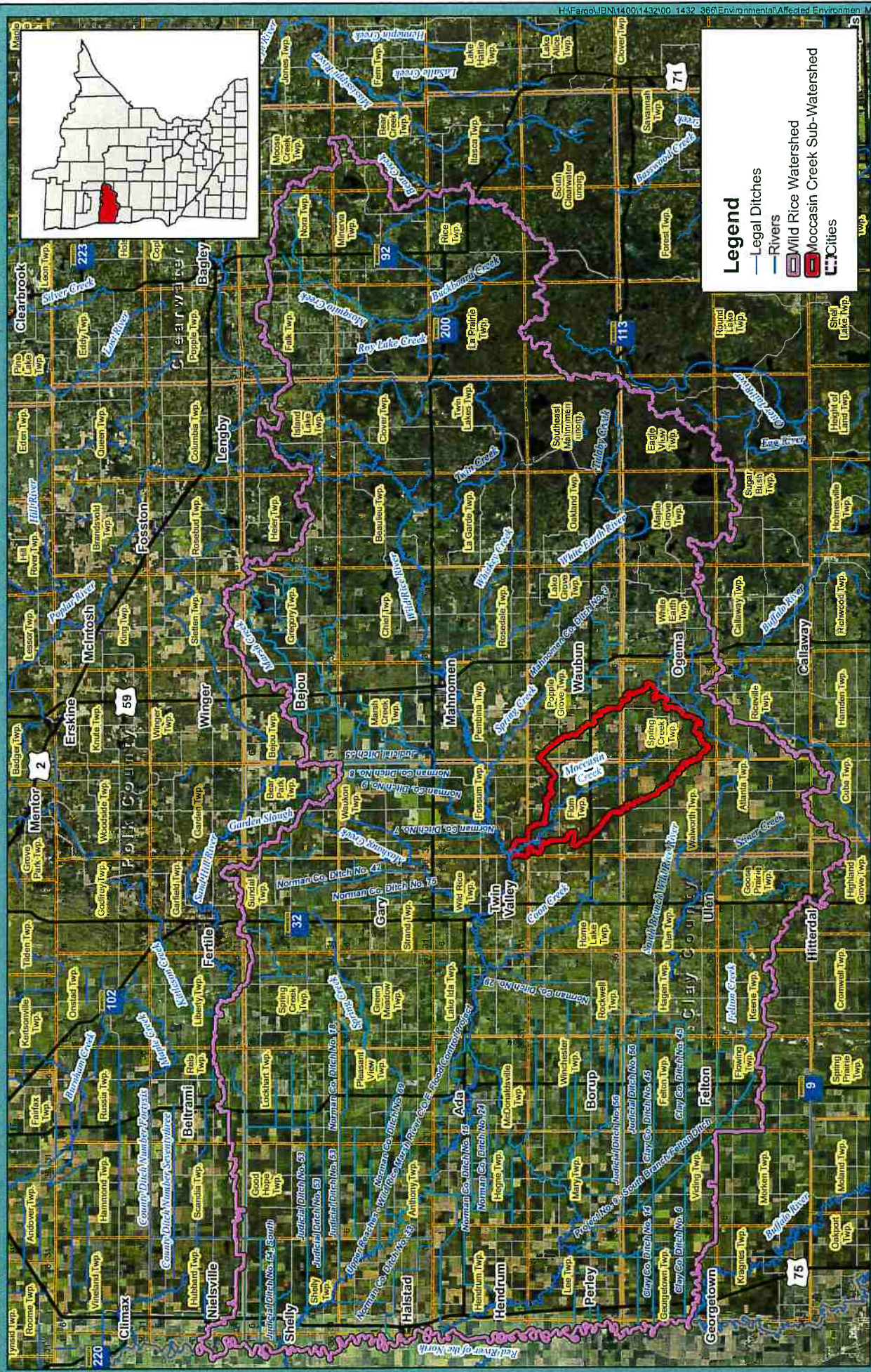
A color project map must be prepared to show the location of important project measures and the location and extent of important watershed conditions that will be affected by the works of improvement to be installed. The map must show the location and kind of measures, watershed areas above structures that have floodwater retarding capacity, and benefited areas.



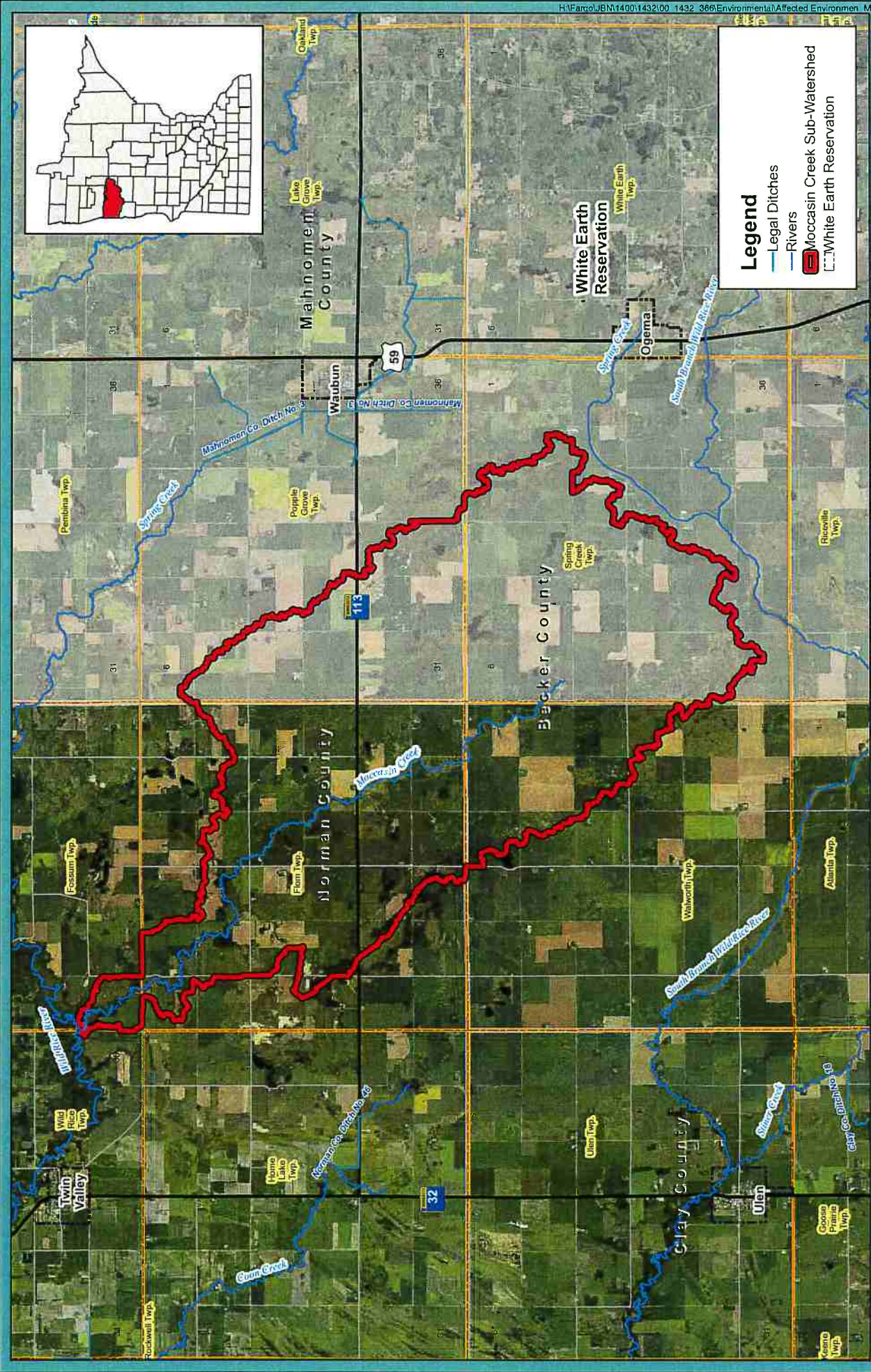


Legend

- Legal Ditches
- Rivers
- Wild Rice Watershed
- Moccasin Creek Sub-Watershed
- Cities



Wild Rice Watershed
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



Legend

- Legal Ditches
- Rivers
- Moccasin Creek Sub-Watershed
- White Earth Reservation



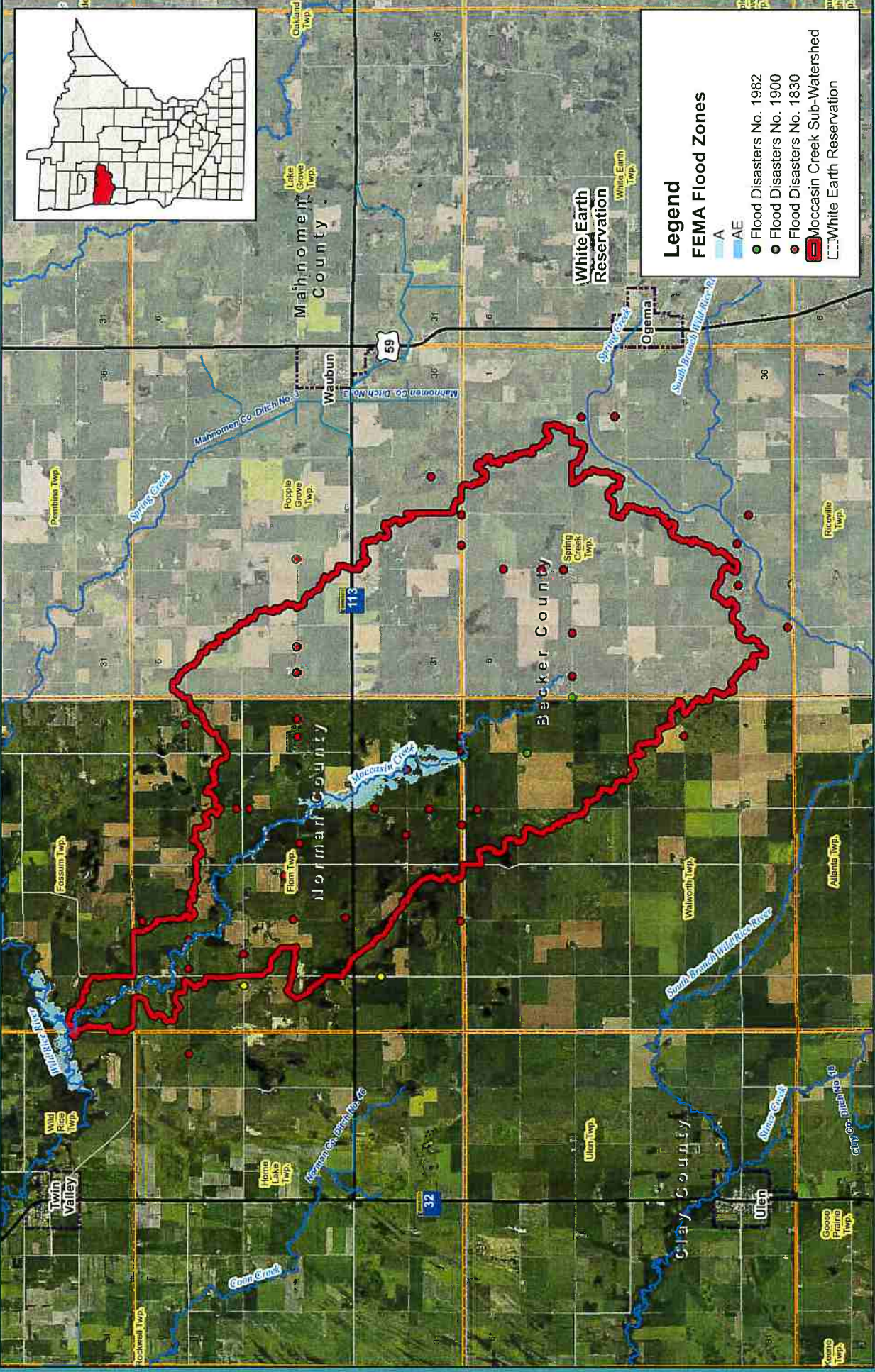
Moccasin Creek Sub-Watershed (Project Area)
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



Appendix C

Support Maps

This appendix contains support maps for the watershed project plan. It includes urban floodplain maps that minimally display the 100-year and 500-year frequency flood limits and depth, breach impact areas, recreation development maps and other informational maps.

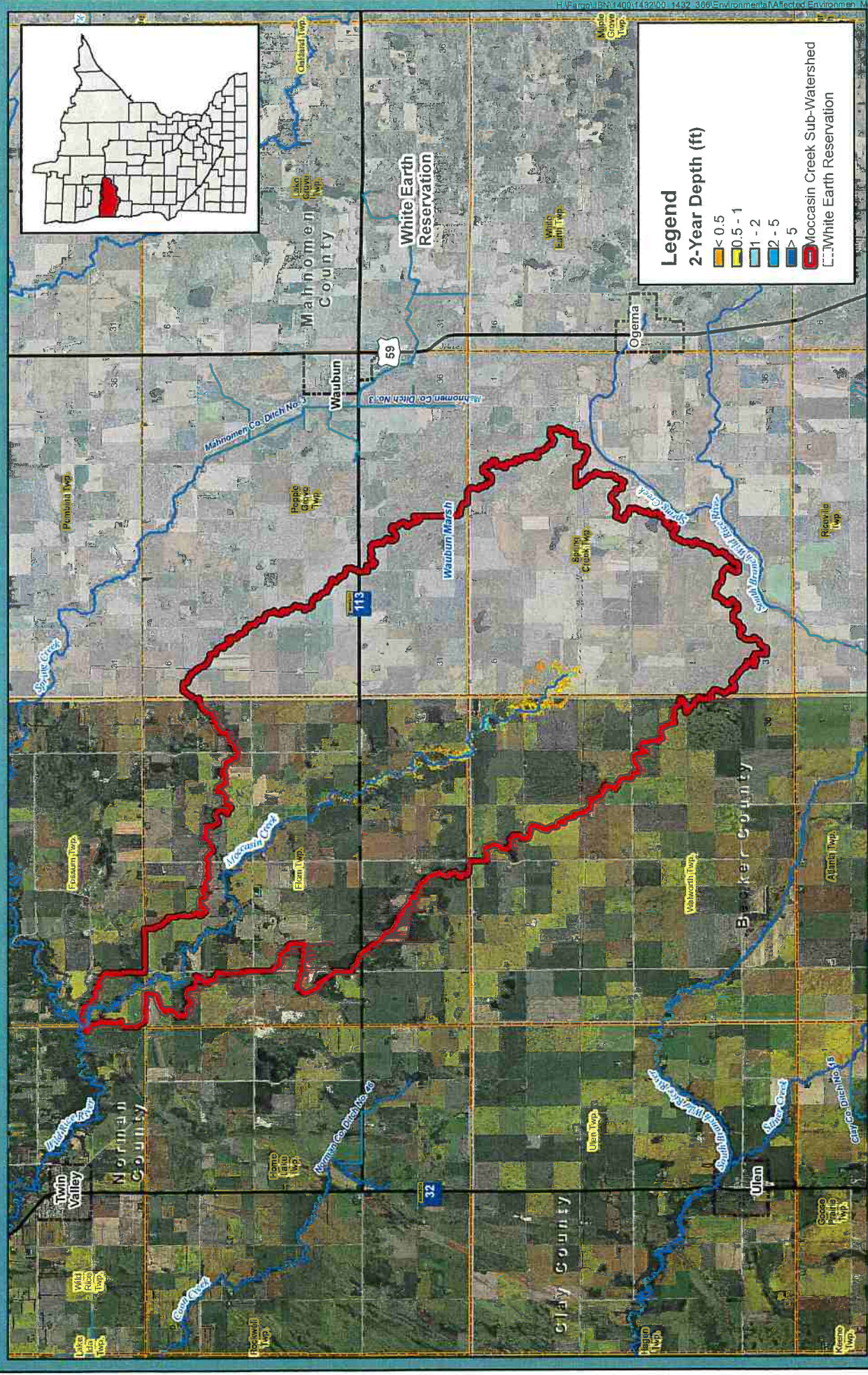
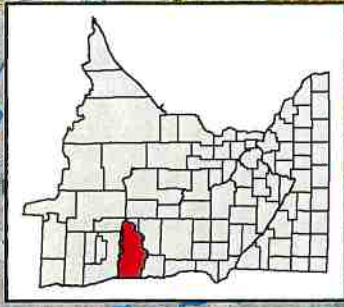


Legend
FEMA Flood Zones

- A Flood Disasters No. 1982
- AE Flood Disasters No. 1900
- Flood Disasters No. 1830
- Moccasin Creek Sub-Watershed
- White Earth Reservation



Floodplains (FEMA Flood Zones)
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

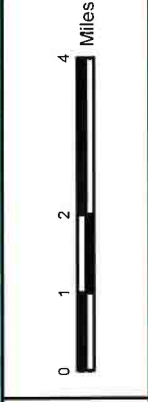


Legend

2-Year Depth (ft)

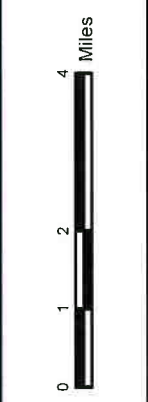
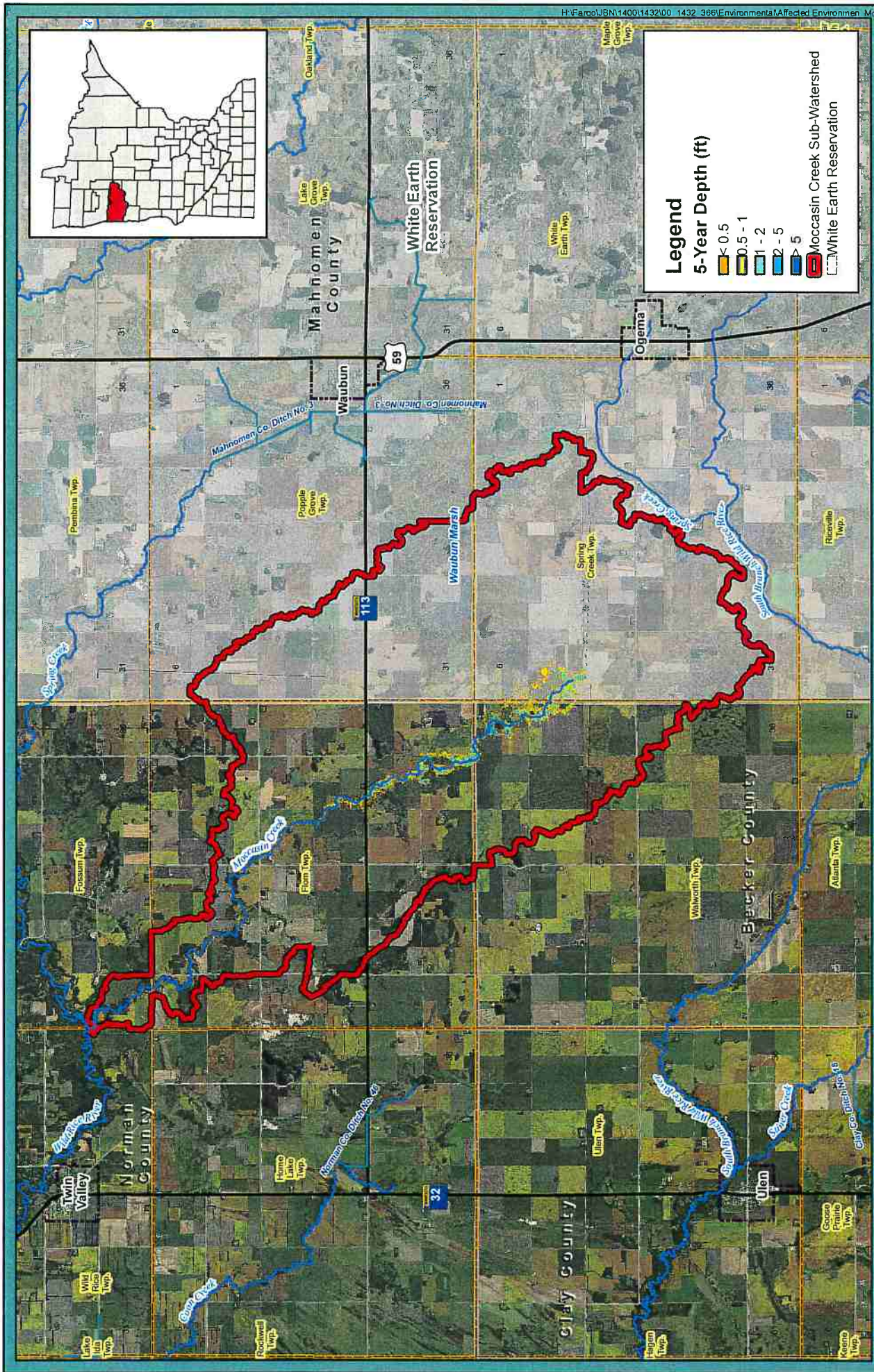
- < 0.5
- 0.5 - 1
- 1 - 2
- 2 - 5
- > 5

- Moccasin Creek Sub-Watershed
- White Earth Reservation



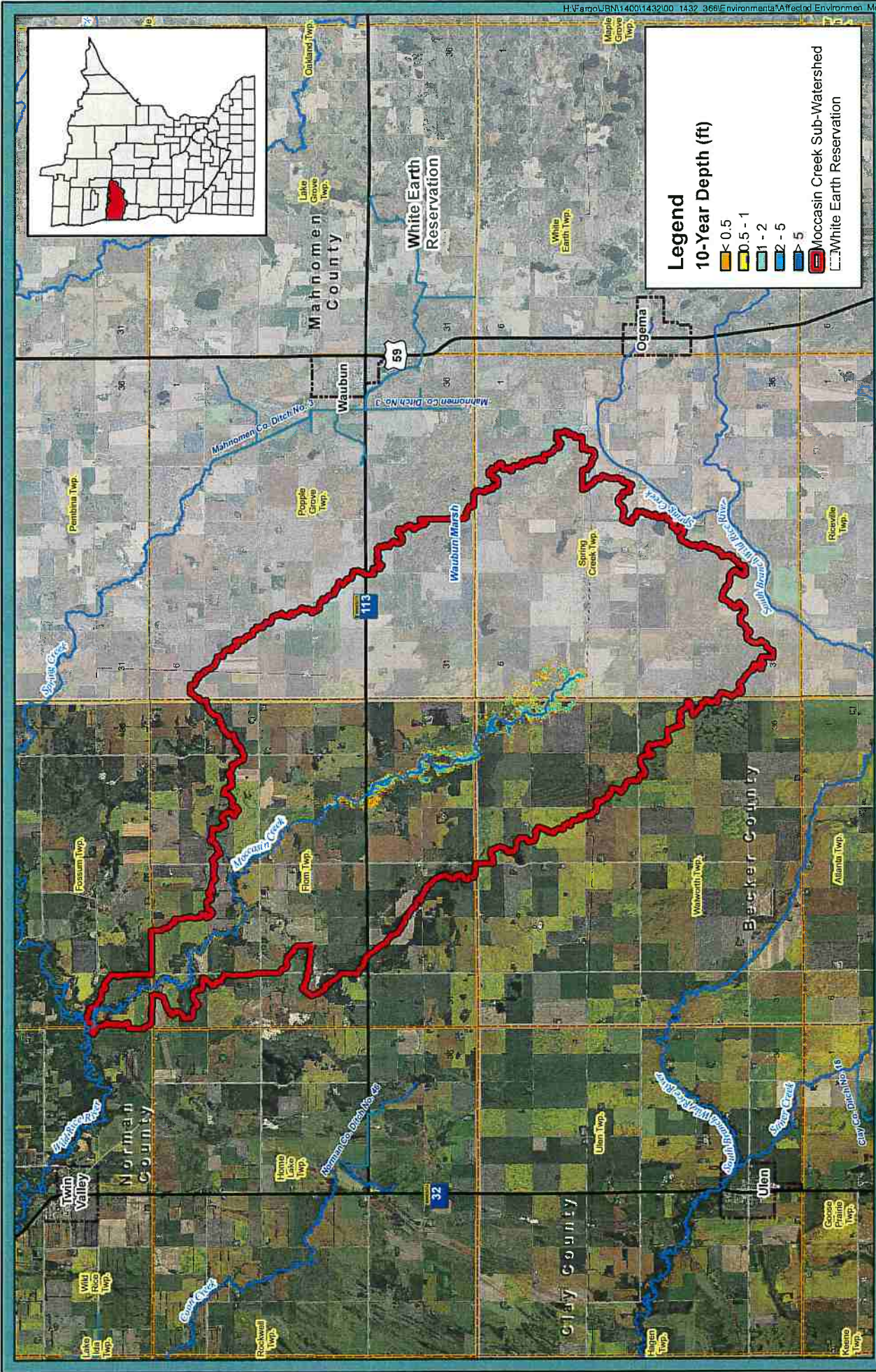
Flood Inundation Mapping 2-Year, 24-Hour
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

C-2.1



Flood Inundation Mapping 5-Year, 24-Hour
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

C-2.2

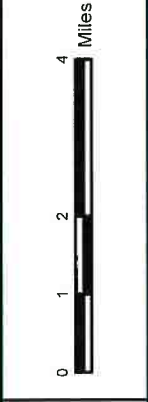


Legend

10-Year Depth (ft)

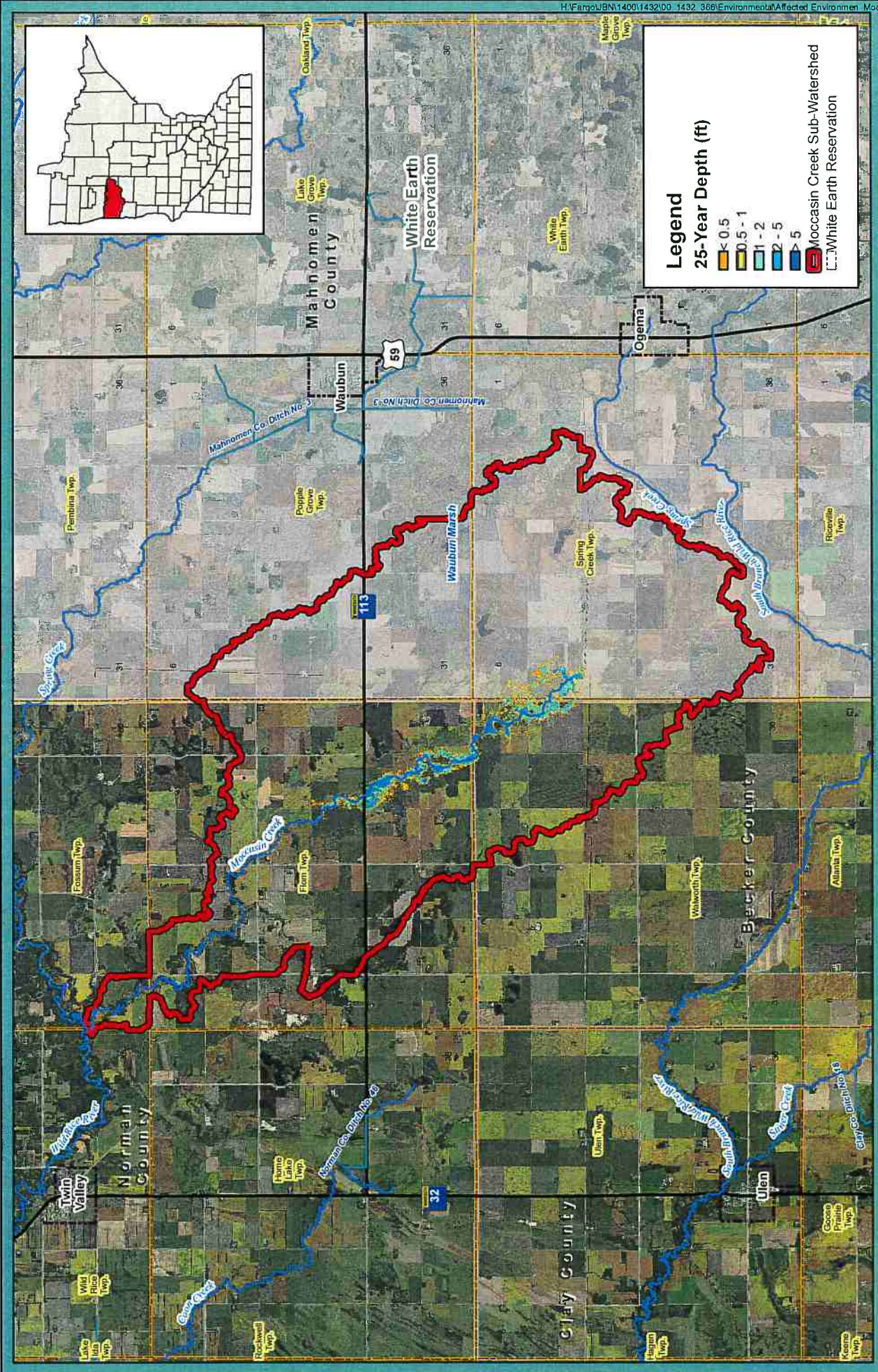
- < 0.5
- 0.5 - 1
- 1 - 2
- 2 - 5
- > 5

- Moccasin Creek Sub-Watershed
- White Earth Reservation



Flood Inundation Mapping 10-Year, 24-Hour
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

C-2.3

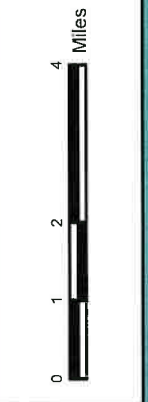


Legend

25-Year Depth (ft)

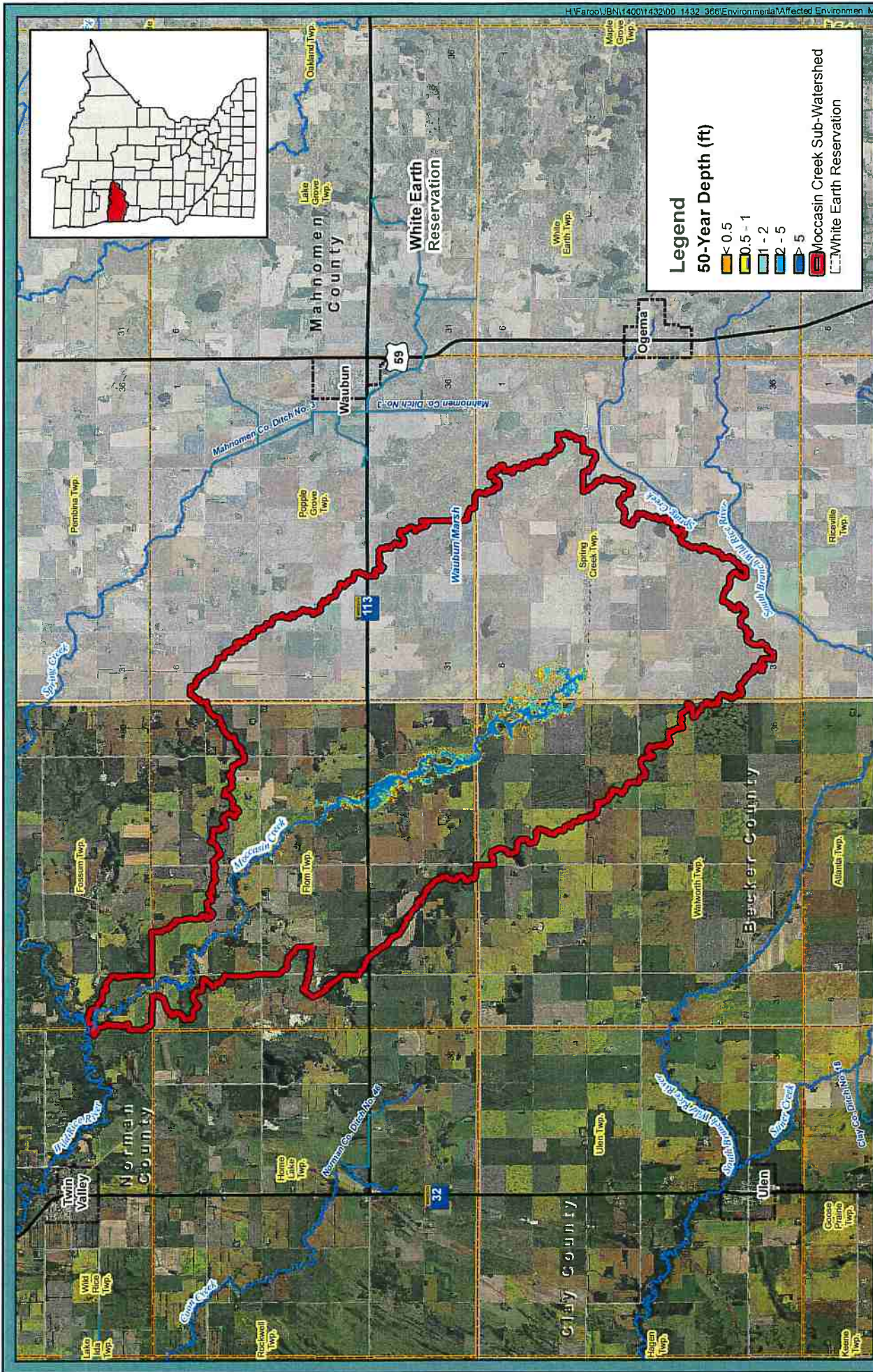
- < 0.5
- 0.5 - 1
- 1 - 2
- 2 - 5
- > 5

 Moccasin Creek Sub-Watershed
 White Earth Reservation



Flood Inundation Mapping 25-Year, 24-Hour
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

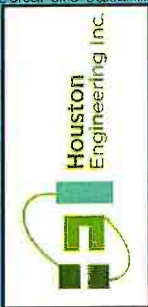
C-2.4



Legend

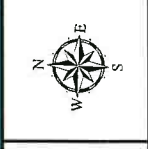
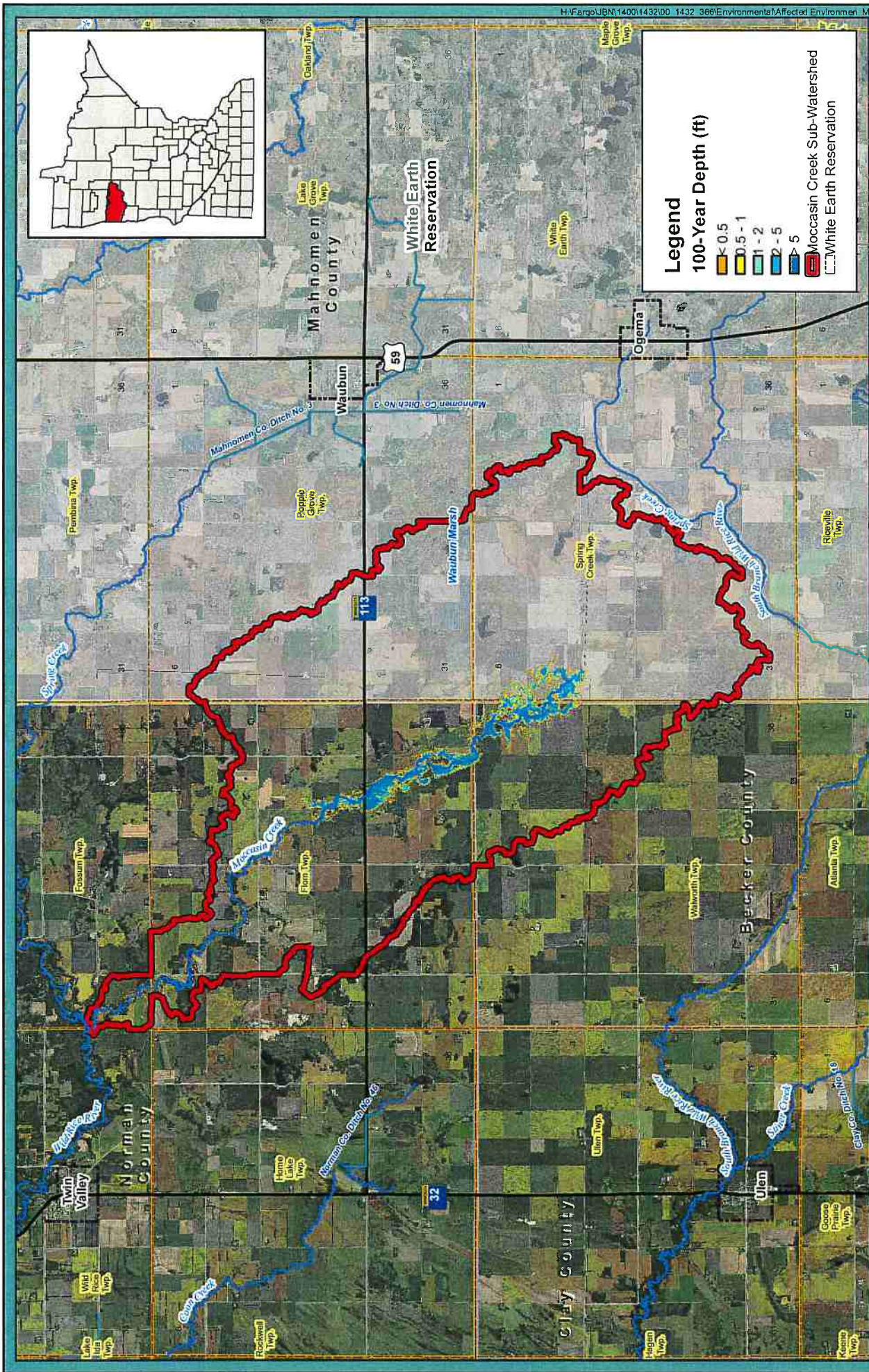
50-Year Depth (ft)

- <math>< 0.5</math>
- 0.5 - 1
- 1 - 2
- > 2 - 5
- Moccasin Creek Sub-Watershed
- White Earth Reservation



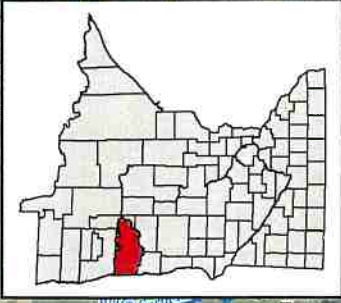
Flood Inundation Mapping 50-Year, 24-Hour
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

C-2.5



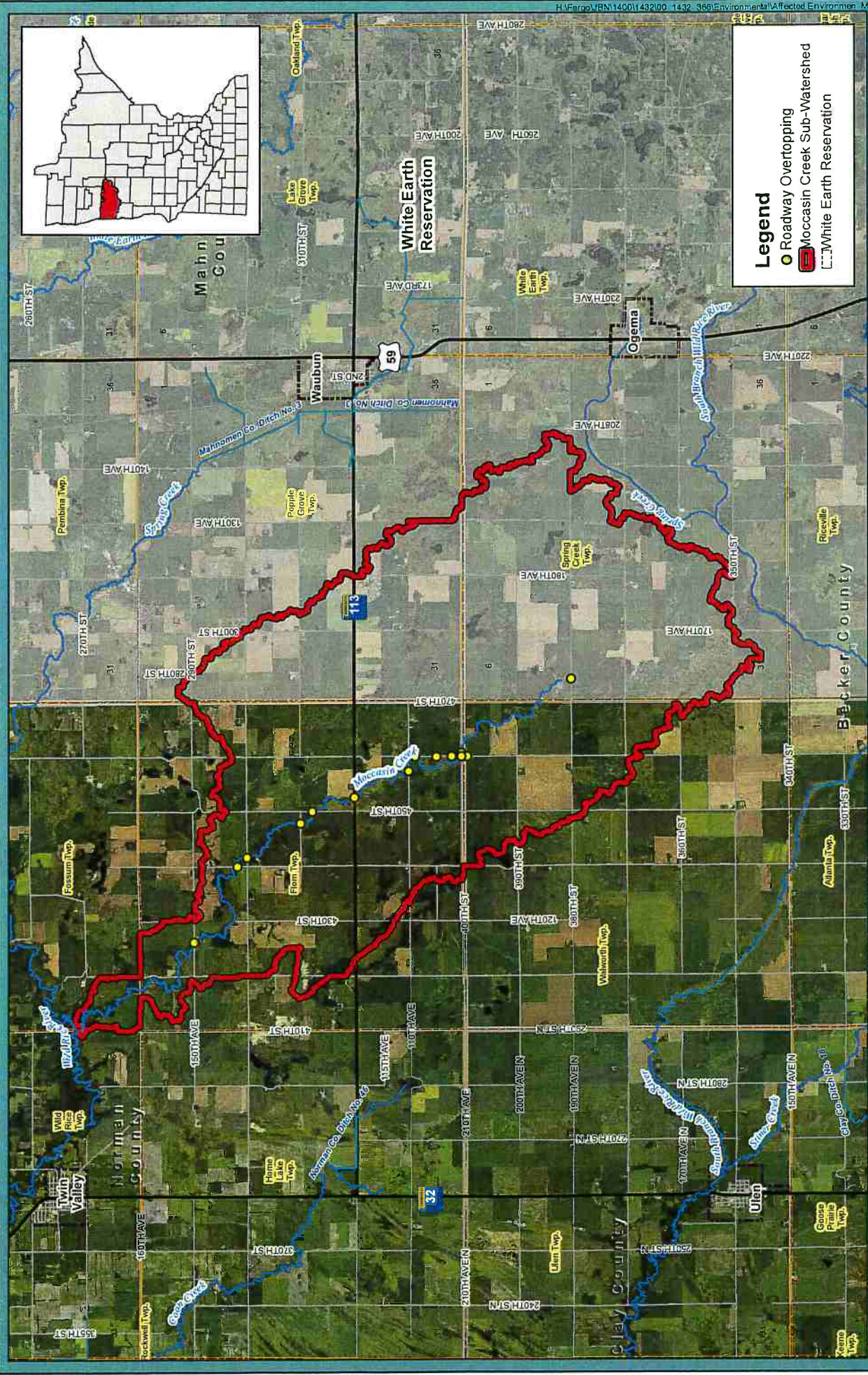
Flood Inundation Mapping 100-Year, 24-Hour
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

C-2.6

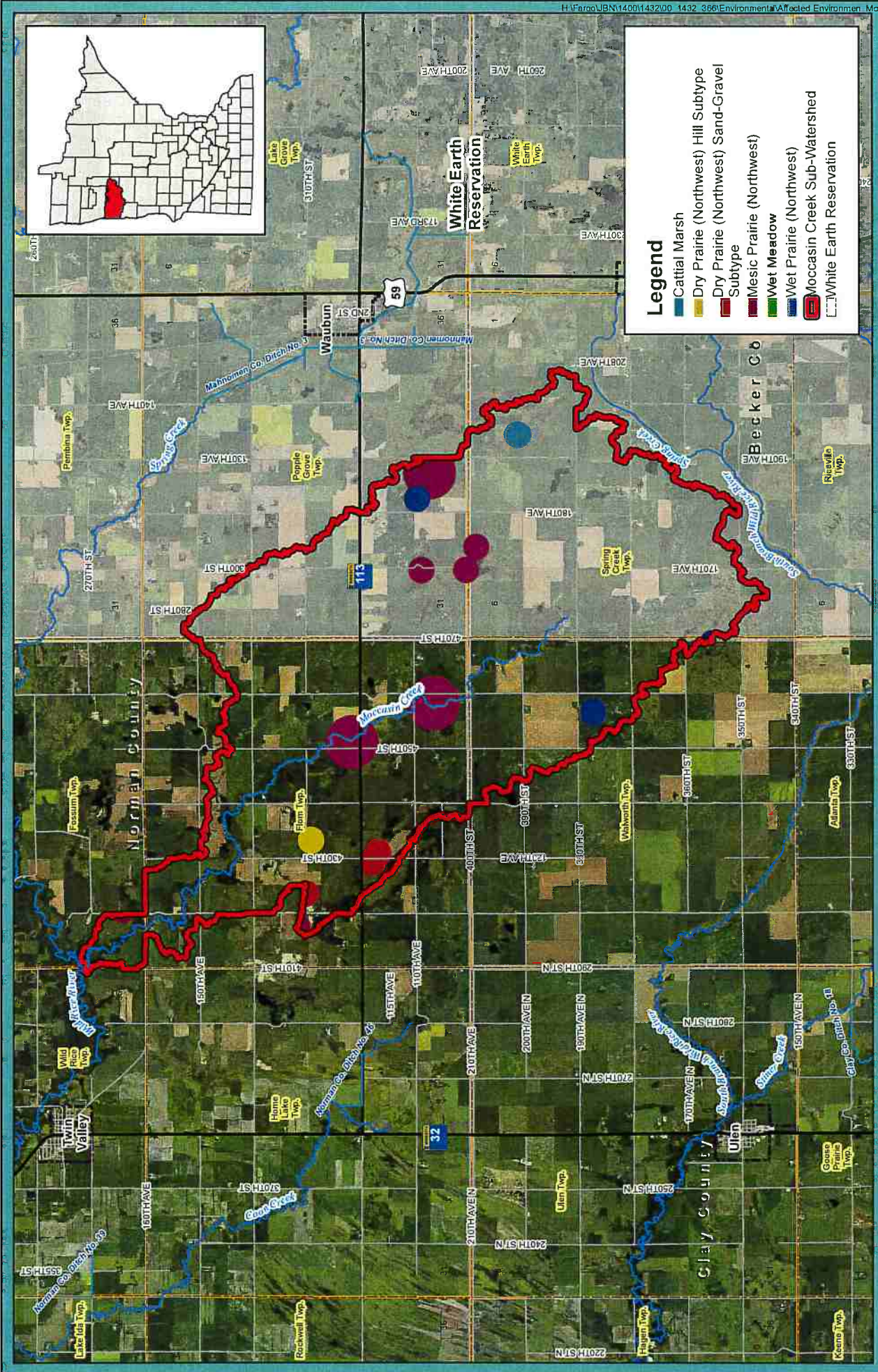


Legend

- Roadway Overtopping
- Moccasin Creek Sub-Watershed
- White Earth Reservation



Roadway Overtopping During Flood Events
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

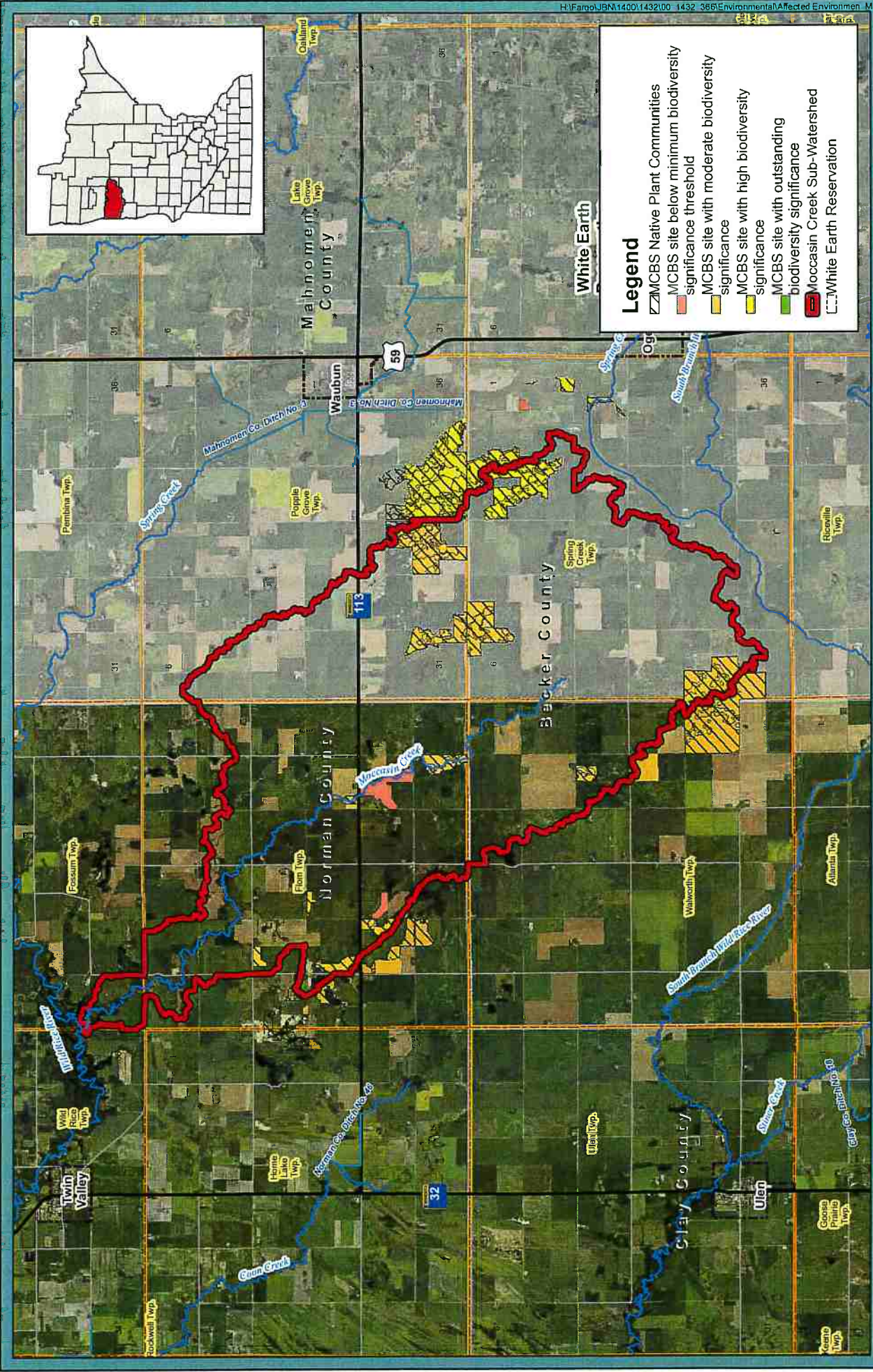


Legend

- Cattail Marsh
- Dry Prairie (Northwest) Hill Subtype
- Dry Prairie (Northwest) Sand-Gravel Subtype
- Mesic Prairie (Northwest)
- Wet Meadow
- Wet Prairie (Northwest)
- Moccasin Creek Sub-Watershed
- White Earth Reservation



NHIS Ecological Sites (NHIS LA-805)
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

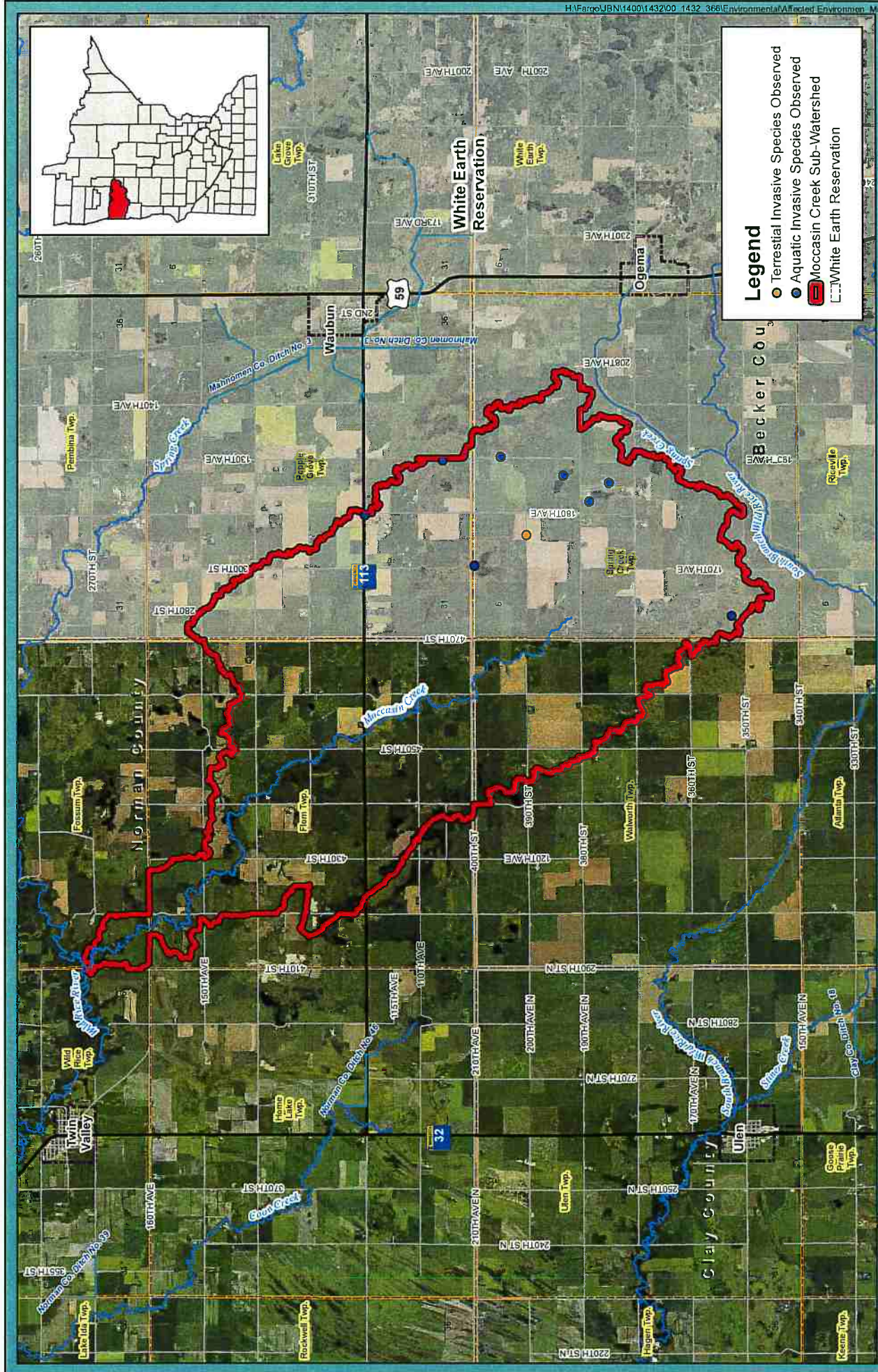


Legend

- ▨ MCBS Native Plant Communities
- ▭ MCBS site below minimum biodiversity significance threshold
- ▭ MCBS site with moderate biodiversity significance
- ▭ MCBS site with high biodiversity significance
- ▭ MCBS site with outstanding biodiversity significance
- ▭ Moccasin Creek Sub-Watershed
- ▭ White Earth Reservation

MCBS Sites of Biodiversity Significance and Native Plant Communities
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

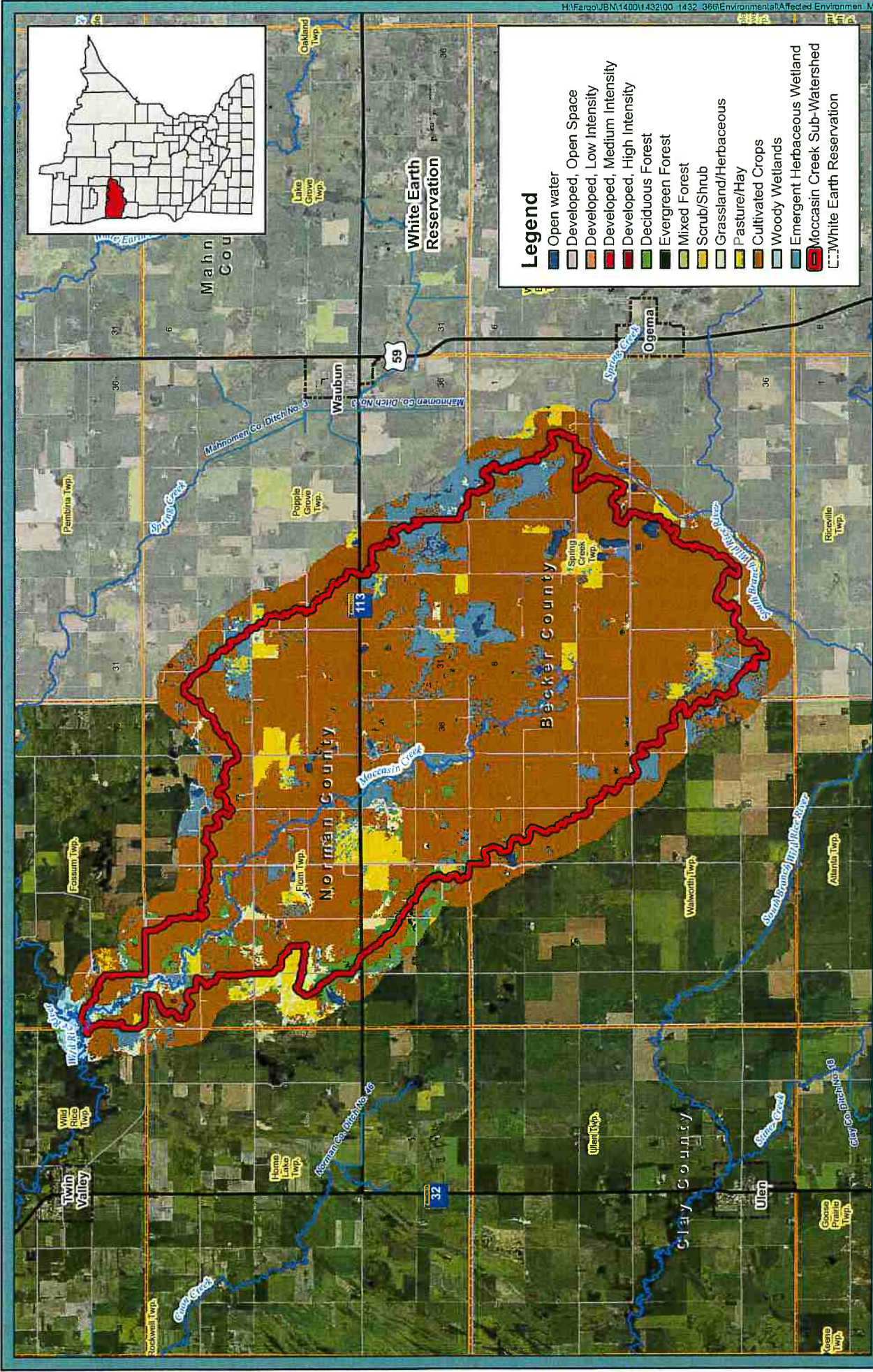




- Legend**
- Terrestrial Invasive Species Observed
 - Aquatic Invasive Species Observed
 - Moccasin Creek Sub-Watershed
 - White Earth Reservation



Invasive Species
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

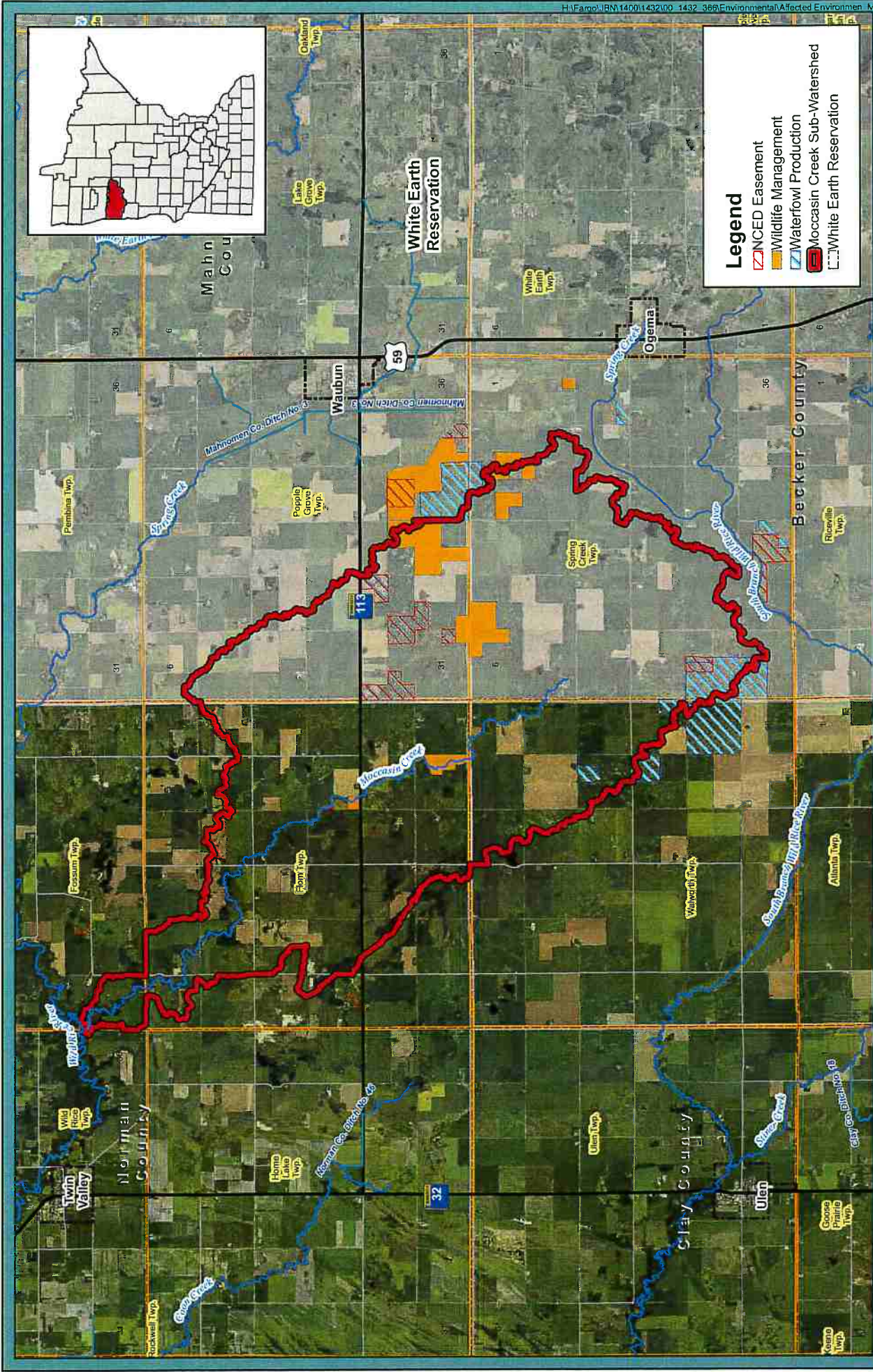


Legend

- Open water
- Developed, Open Space
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Scrub/Shrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetland
- Moccasin Creek Sub-Watershed
- White Earth Reservation



National Land Cover Data (2011)
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

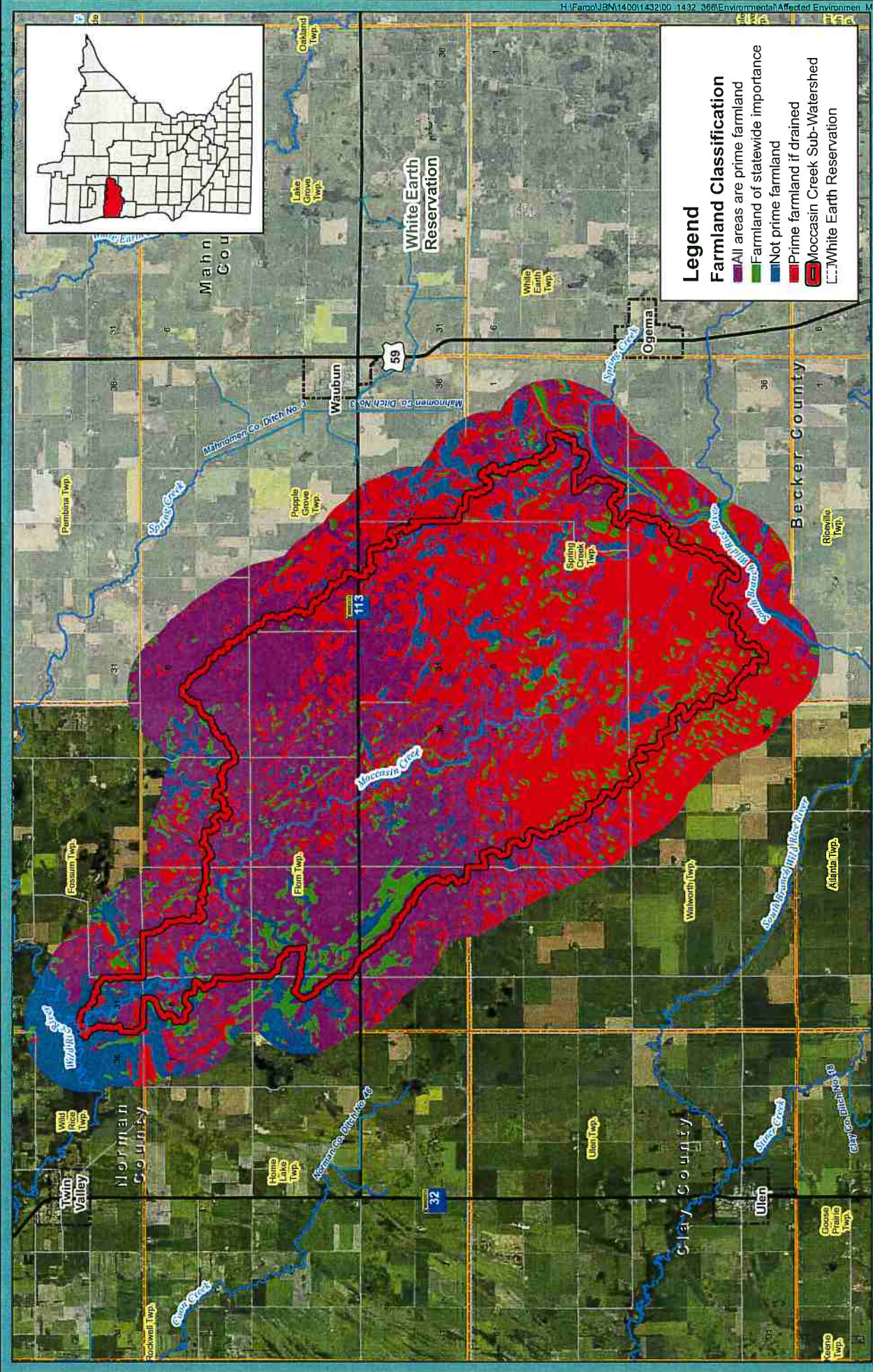


Legend

- NCED Easement
- Wildlife Management
- Waterfowl Production
- Moccasin Creek Sub-Watershed
- White Earth Reservation



Natural Areas
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



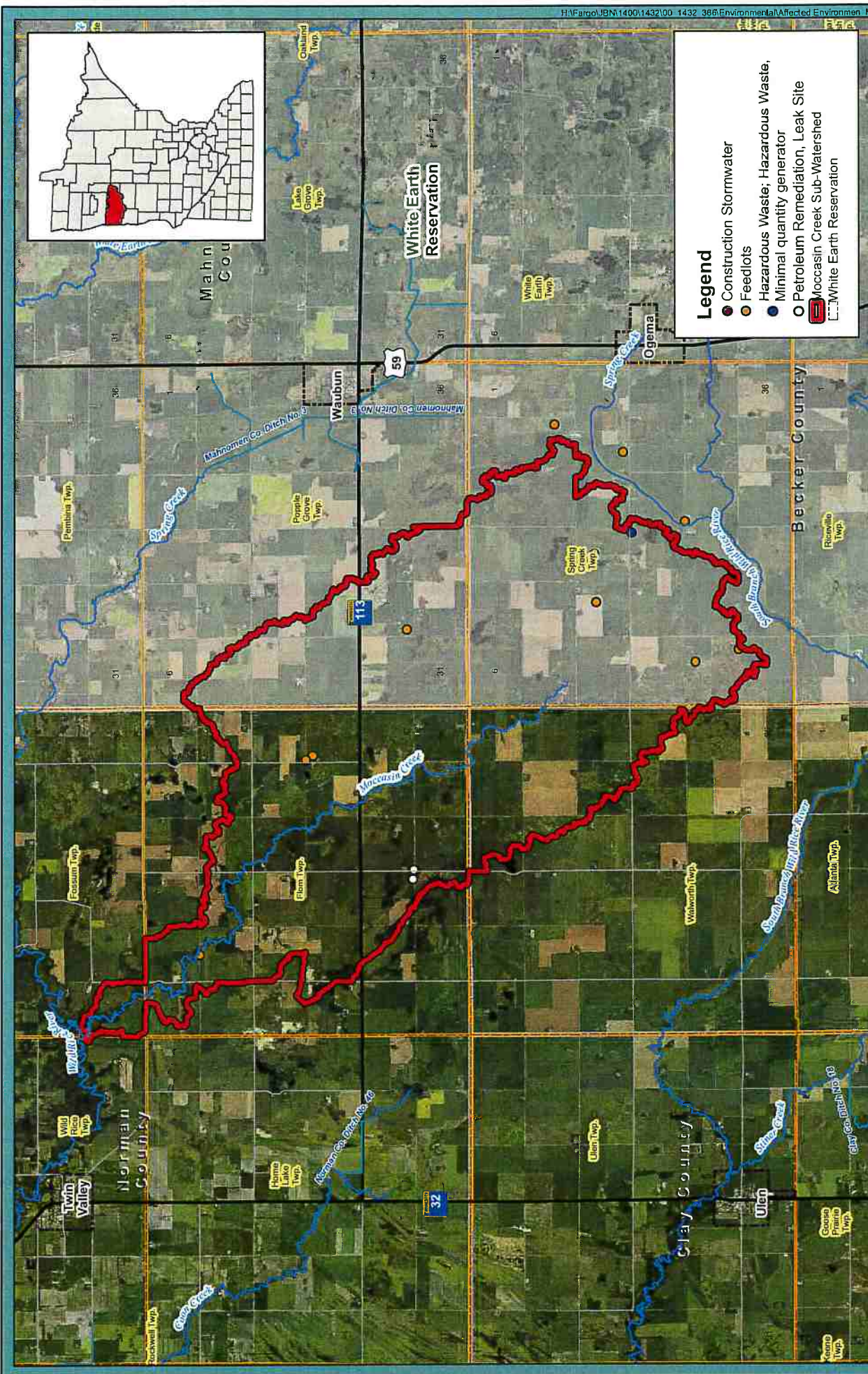
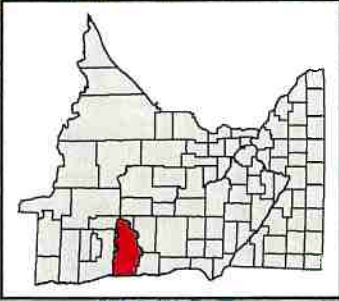
Legend

Farmland Classification

- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland
- Prime farmland if drained
- Moccasin Creek Sub-Watershed
- White Earth Reservation



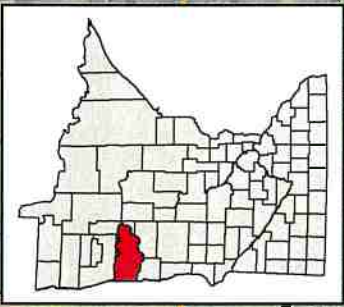
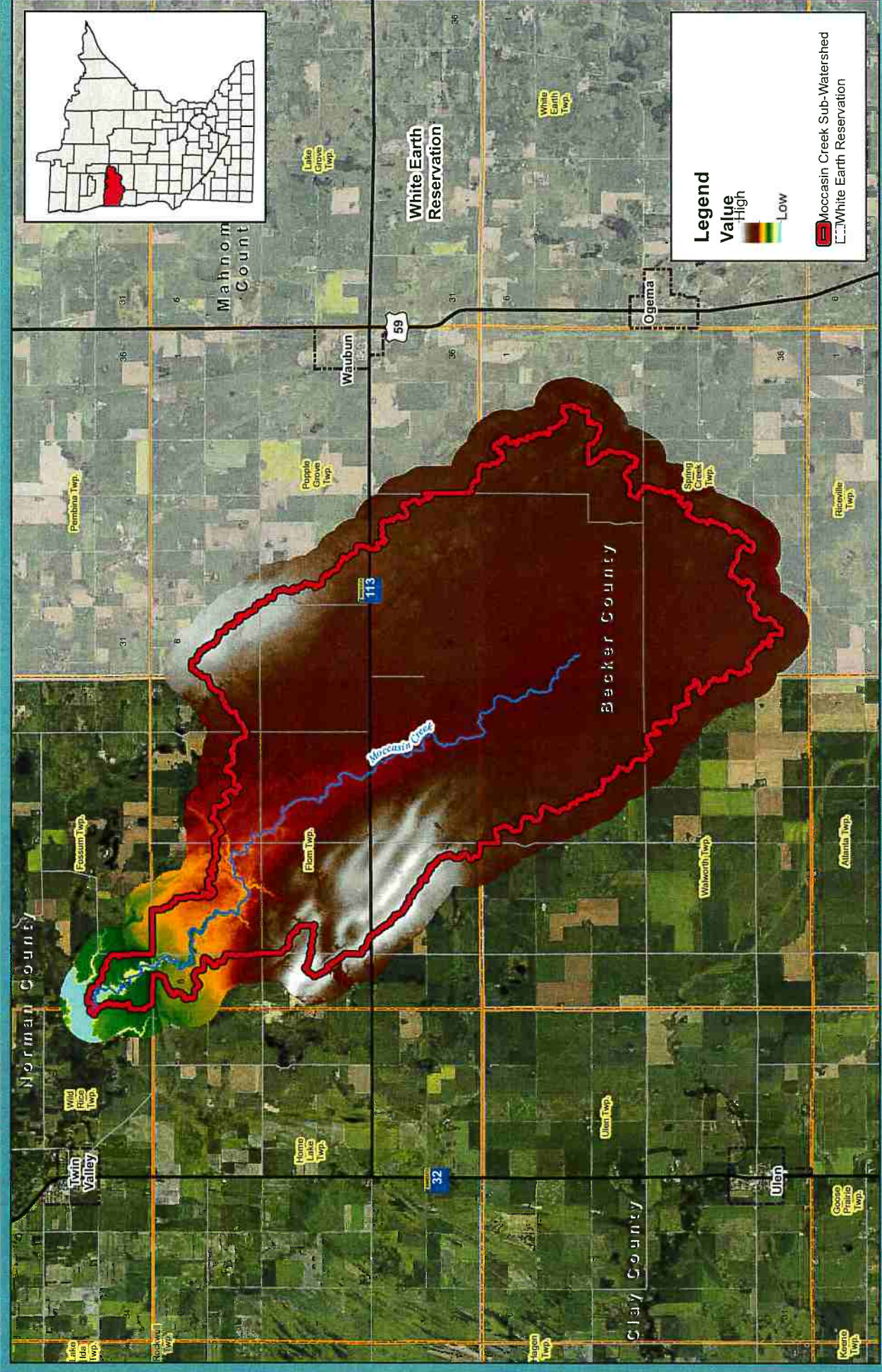
Prime and Unique Farmland, and Farmland of Statewide Significance
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



- Legend**
- Construction Stormwater
 - Feedlots
 - Hazardous Waste; Hazardous Waste, Minimal quantity generator
 - Petroleum Remediation, Leak Site
 - Moccasin Creek Sub-Watershed
 - White Earth Reservation



MPCA What's In My Neighborhood
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



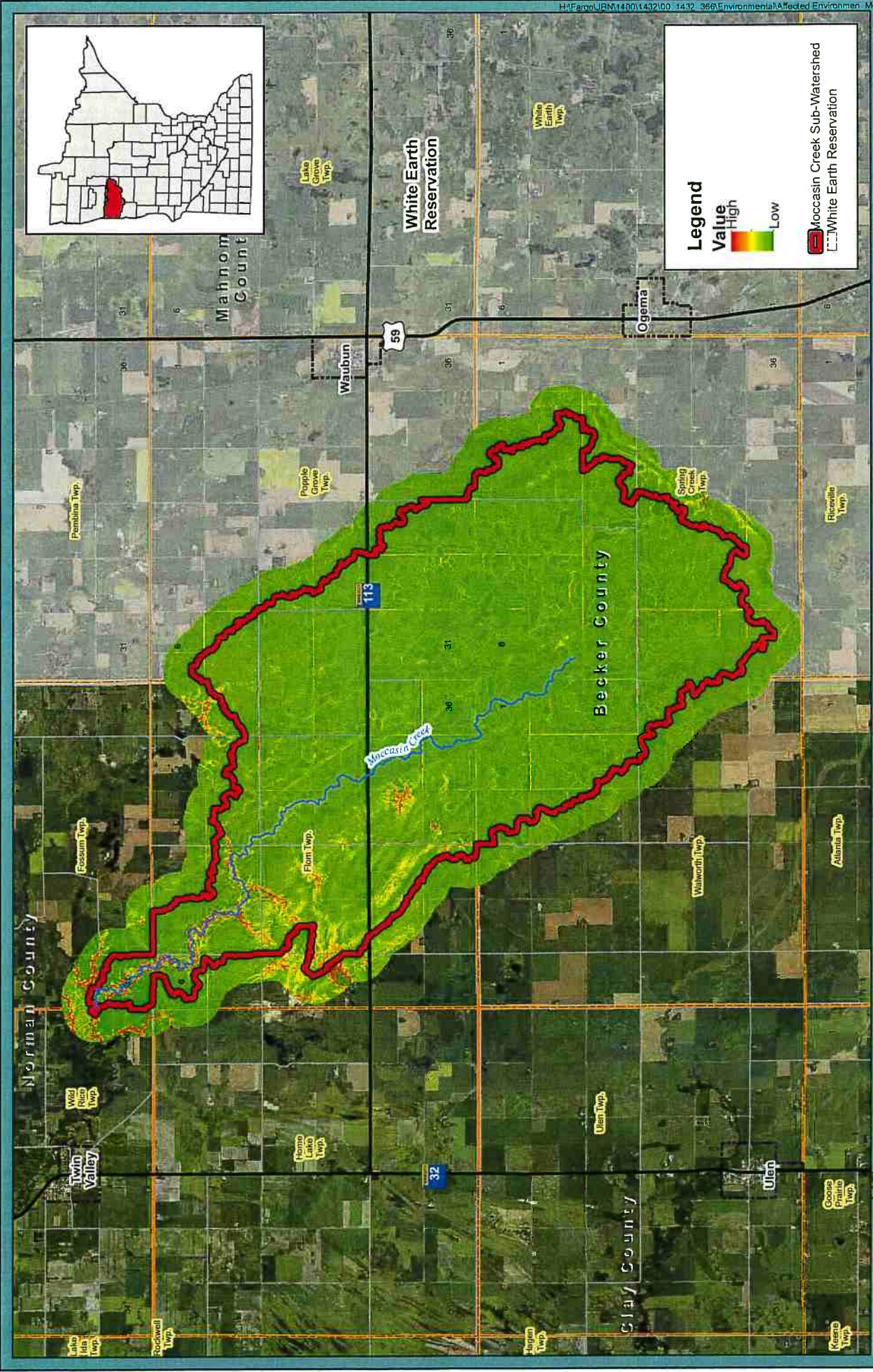
Legend

Value
High
Low

Moccasin Creek Sub-Watershed
 White Earth Reservation



Topography (LiDAR Map)
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

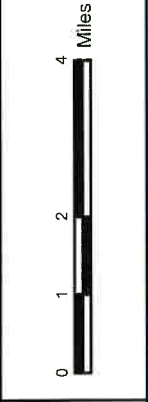
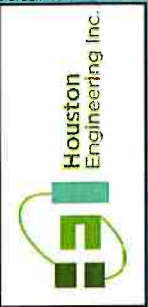


Legend

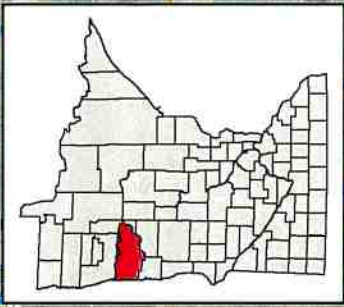
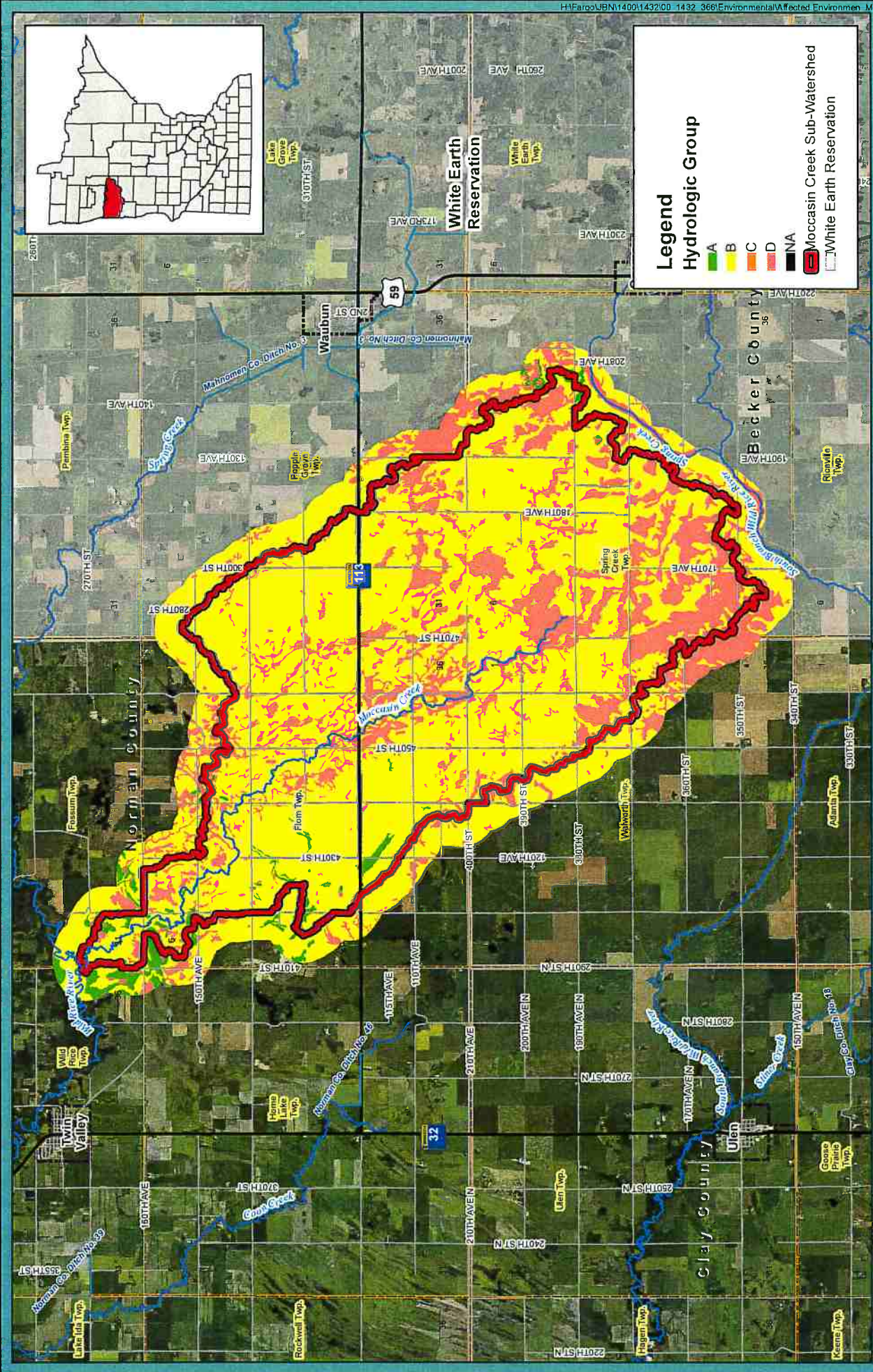
Value
 High

 Low

Moccasin Creek Sub-Watershed
 White Earth Reservation



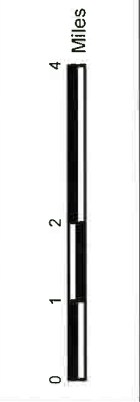
Lidar Derived Slope.
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



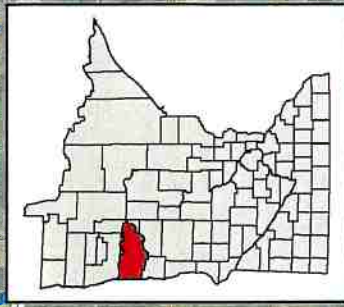
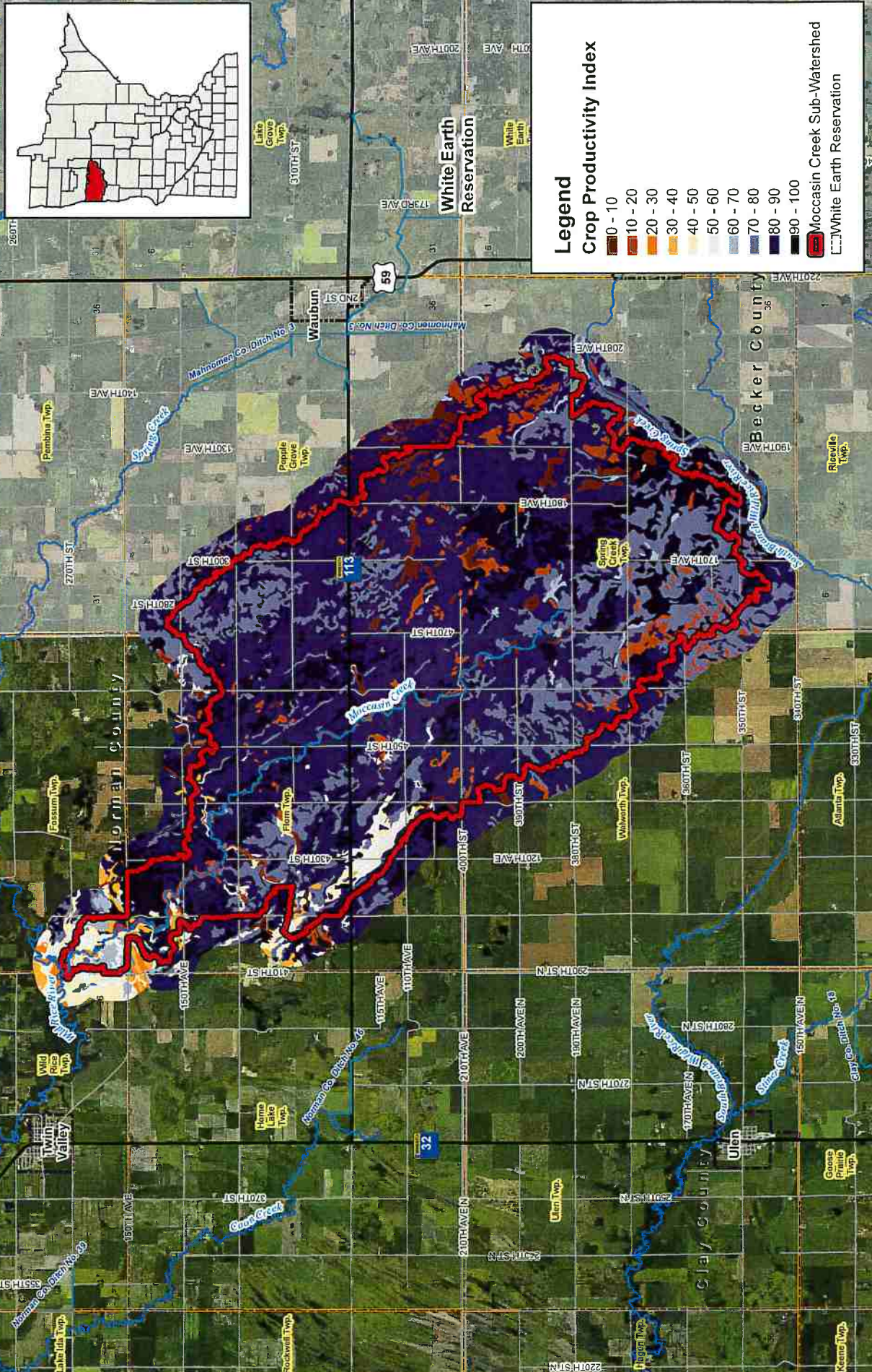
Legend
Hydrologic Group

- A ■
- B ■
- C ■
- D ■
- NA ■

Moccasin Creek Sub-Watershed
 White Earth Reservation



Hydrologic Soils Group
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



Legend

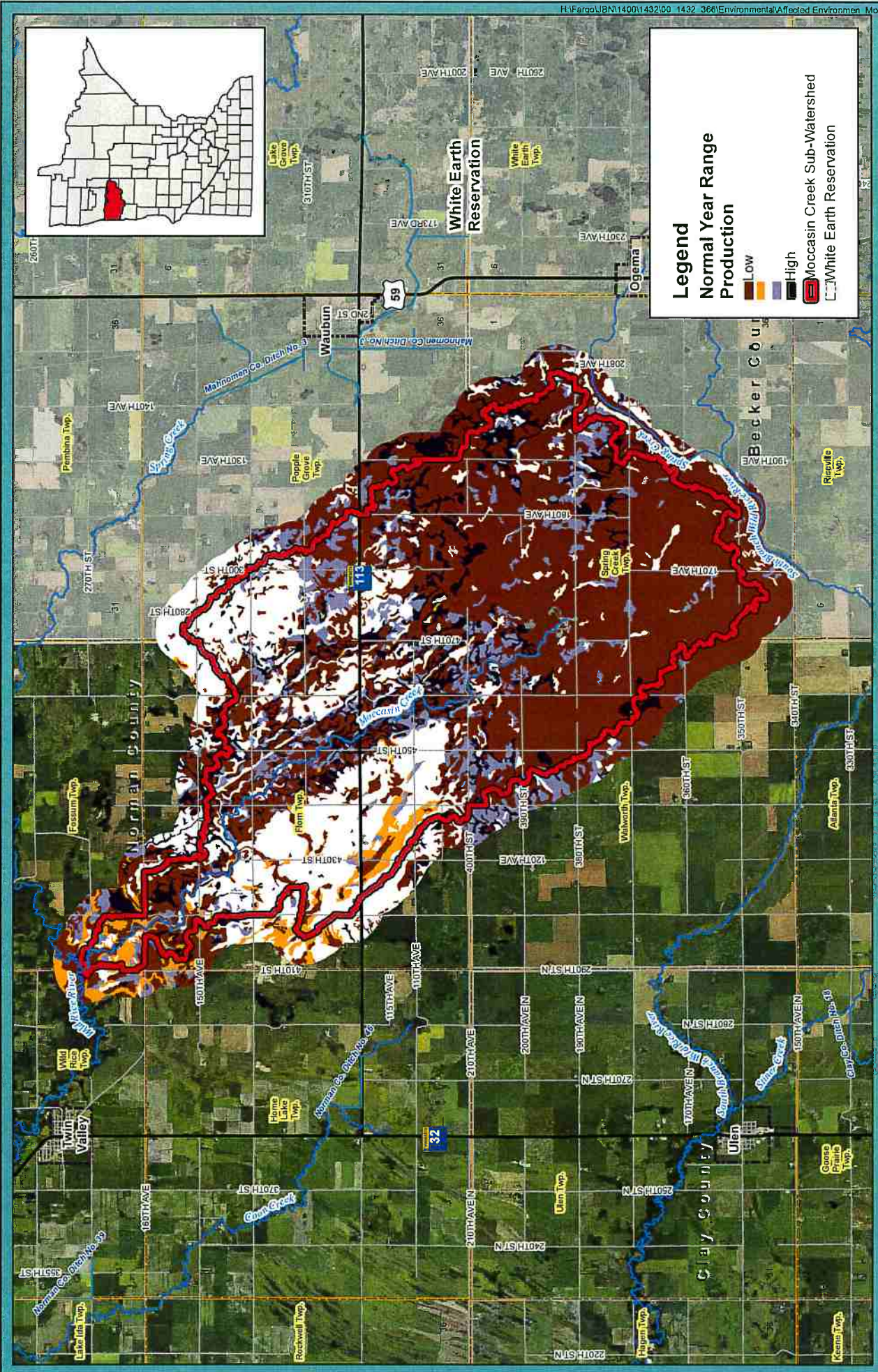
Crop Productivity Index

- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- 60 - 70
- 70 - 80
- 80 - 90
- 90 - 100

Moccasin Creek Sub-Watershed
 White Earth Reservation



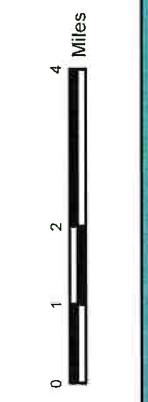
Crop Productivity Index
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



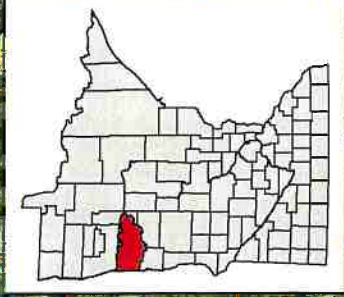
Legend

Normal Year Range Production

- Low
- High
- Moccasin Creek Sub-Watershed
- White Earth Reservation



Normal Year Range Production
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District

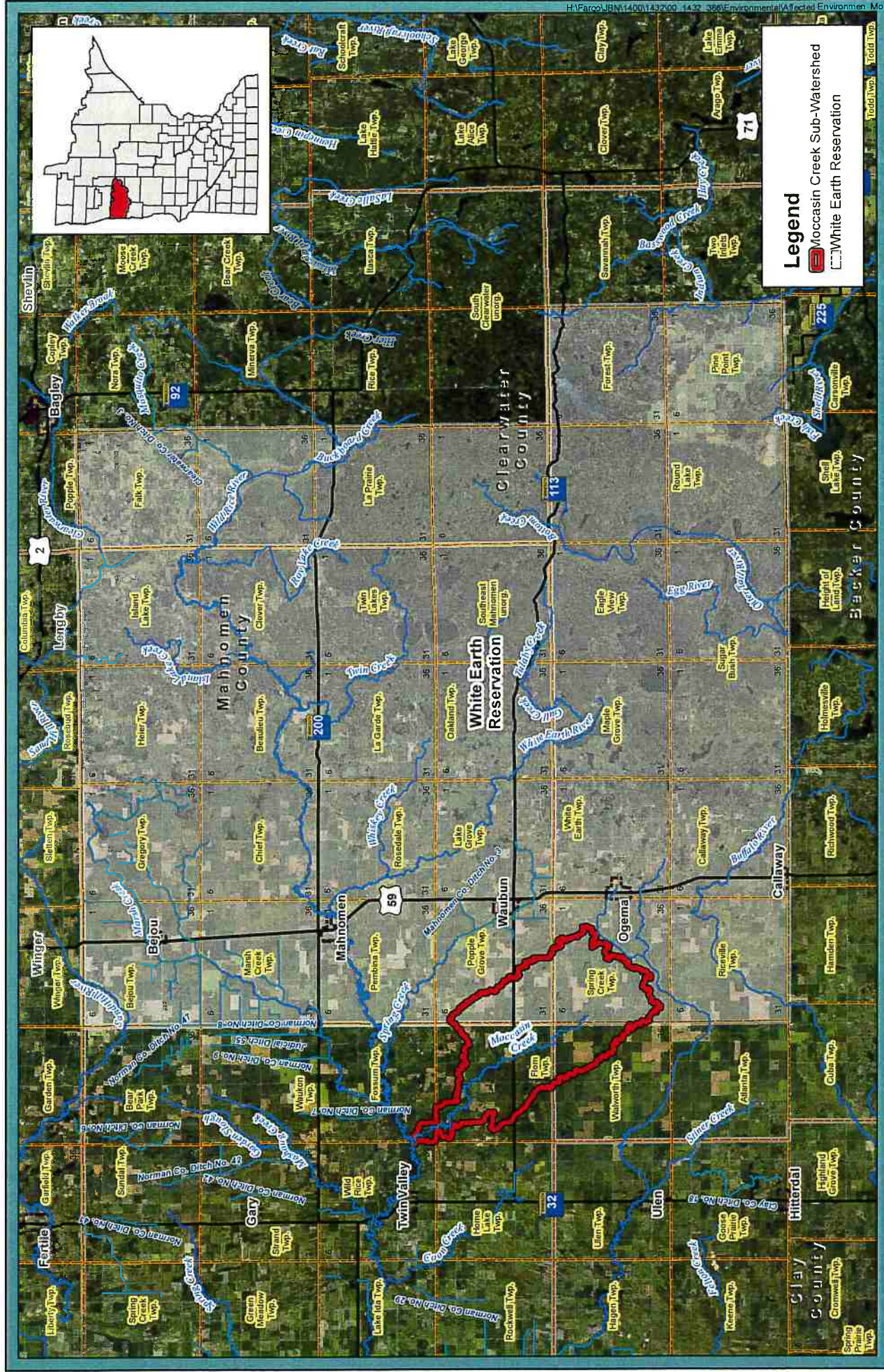


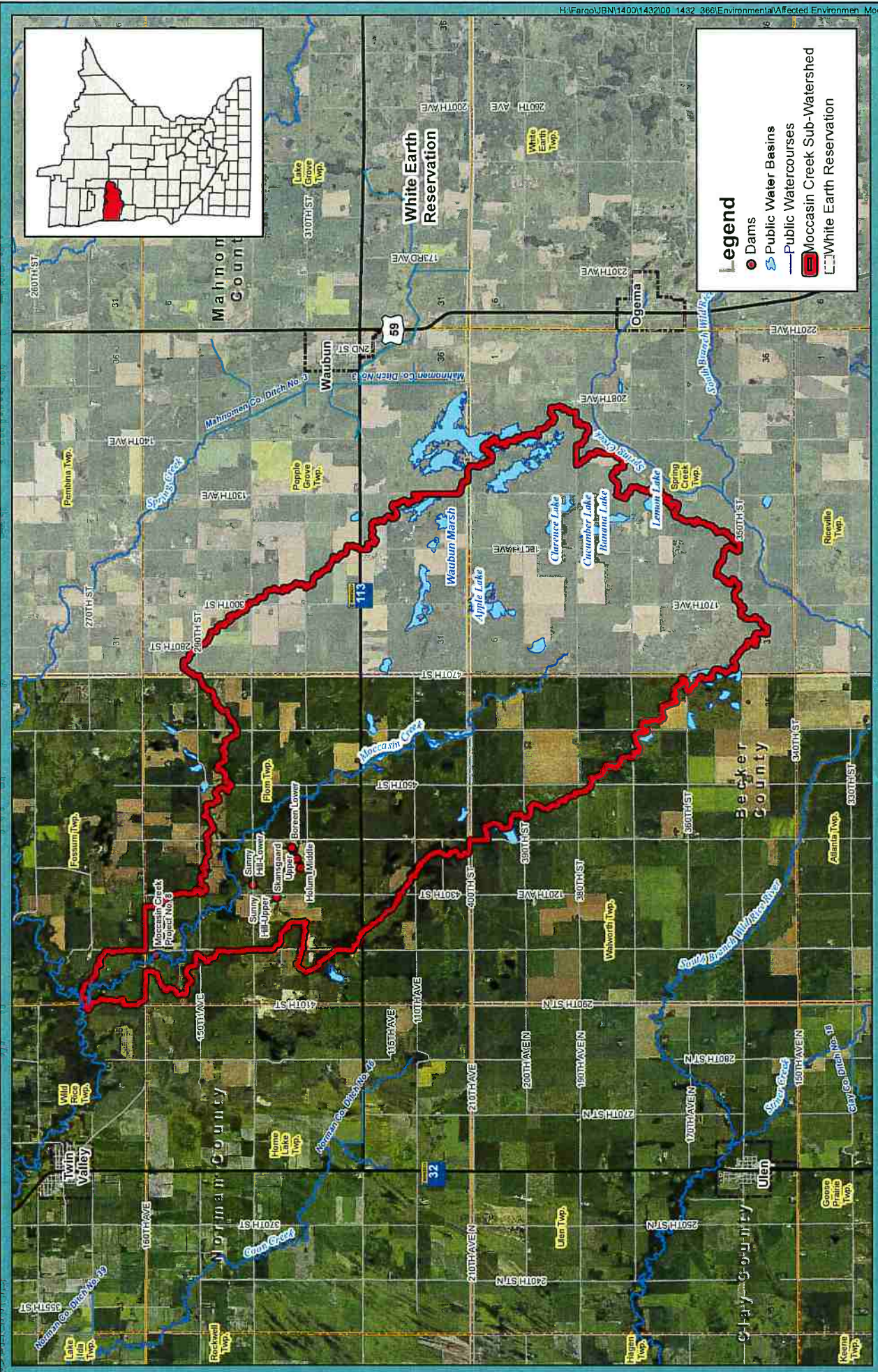
Legend

- Moccasin Creek Sub-Watershed
- White Earth Reservation



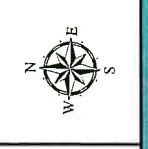
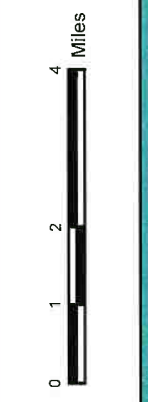
Tribal Lands
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



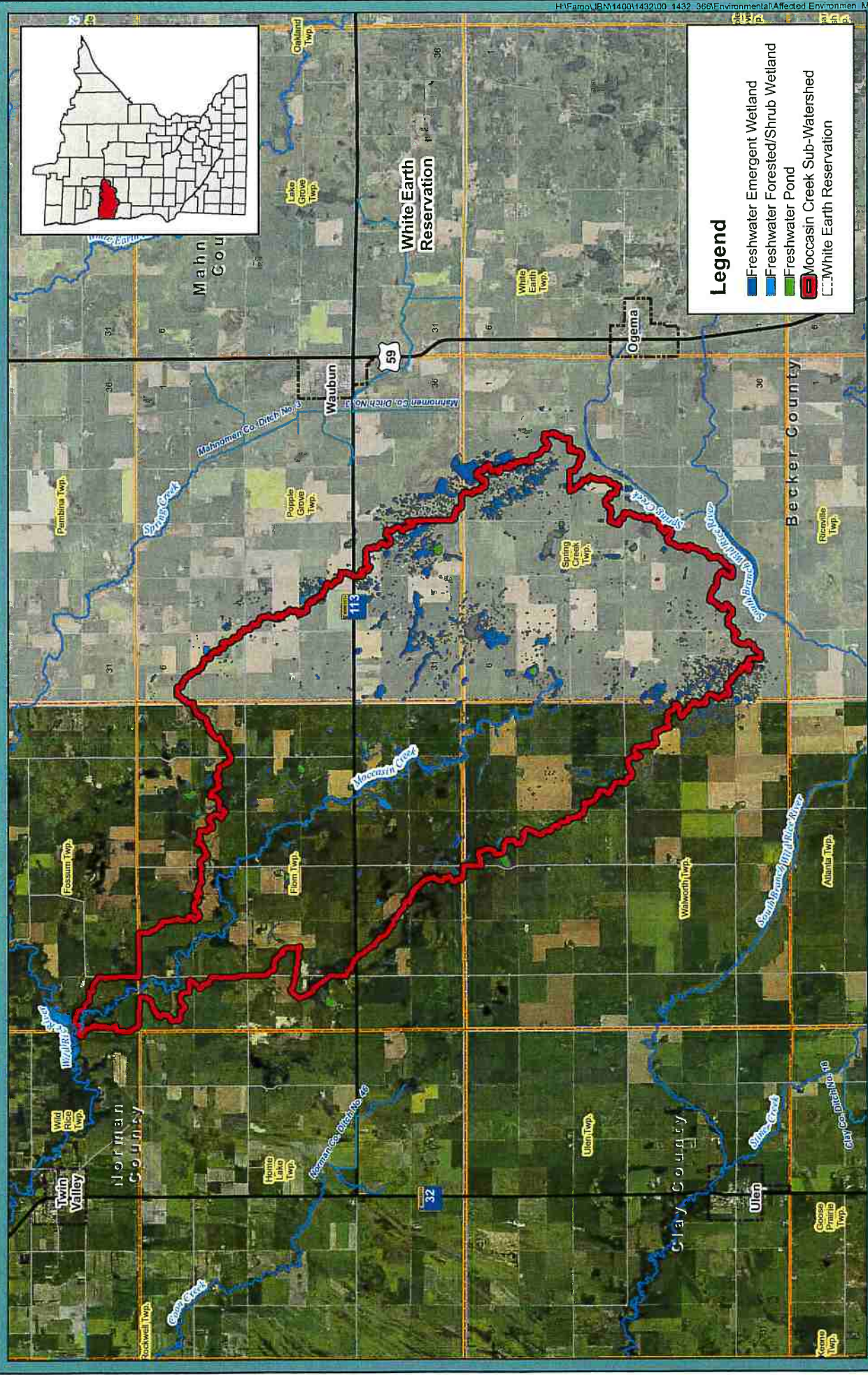
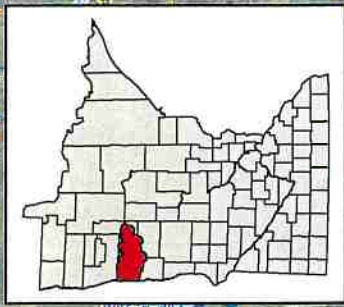


Legend

- Dams
- Public Water Basins
- Public Watercourses
- ▭ Moccasin Creek Sub-Watershed
- White Earth Reservation



Public Waters Watercourses and Basins
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



Legend

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Moccasin Creek Sub-Watershed
- White Earth Reservation



USEWS National Wetland Inventory
 Moccasin Creek Sub-Watershed
 Affected Environment
 Wild Rice Watershed District



Appendix D

Investigations and Analyses Report

The purpose of the investigations and analyses report is to present information that supports the formulation, evaluation, and conclusions of the watershed plan. The report is required for all plans and must be included as an appendix. The report is organized under appropriate headings, such as project formulation, cost allocation, engineering, biology, hydrology, geology, land use, water quality, economics, or cultural resources. The procedures, techniques, assumptions, and the scope and intensity of the investigations for each subject must be described in sufficient detail so that a reader not familiar with the watershed or its problems can form an opinion on the adequacy of the plan. This report supplements information contained in the plan; it does not replace or duplicate such information.

This section will be developed as part of future review points.



Appendix E

Other Supporting Information

This section, rather than the body of the document, is used if tabular or other supporting data are needed to make a point. If material incorporated by reference needs further explanation, this section can expand on the discussion provided in the main body of the plan's text.

This section will be amended as part of future review points.

Supporting Information as part of Review Point No. 3:

E1: MPCA, What's In My Neighborhood: Sites within Project Area



MPCA What's In My Neighborhood Dataset (accessed Mar 15, 2018)

FID	SITE_ID	NAME	ACTIVE	FLA	ADDRESS_ST	ADDRESS_CI	ADDRESS_1
0	5531	Community Co-ops of Lake Park - Flom	N		Main St	Flom	MN
1	10277	Zayic Concrete Work	N		RR 1	Ogema	MN
2	56791	James Heliiksen Dairy	Y		16774 355th St	Ogema	MN
3	59398	Gene & Michael Baukol Farm	Y		1280 460th St	Twin Valley	MN
4	64683	Allen Teiken Farm	Y		23702 350th St	Ogema	MN
5	73986	Mike Vigum Farm	Y		4249 150th St	Twin Valley	MN
6	145659	SAP 054-631-012	Y		Address Unknown	Twin Valley	MN
7	187149	Flom Ulen Co-op Bulk Site	Y		Dorsett Ave W	Flom	MN
8	61126	Gary L Erickson Farm	Y		17847 380th St	Ogema	MN
9	64206	William Haverkamp Farm	Y		37676 County Road 107	Ogema	MN
10	71266	Merlyn C Olson Farm	Y		4602 130th Ave	Twin Valley	MN
11	105837	Winterview Holsteins	Y		3270 110th Ave	Waubun	MN
12	195280	Flom-ulen Coop Oil Association	Y		Flom Station County Road 7	Flom	MN

ADDRESS_ZI	CITY	COUNTY	ACTIVITY	ACTIVITY_L
56541	Flom Township	Norman	Hazardous Waste	Hazardous Waste
56569	Spring Creek Township	Becker	Hazardous Waste	Hazardous Waste
56569	Spring Creek Township	Becker	Feedlots	Feedlots
56584	Flom Township	Norman	Feedlots	Feedlots
56569	Spring Creek Township	Becker	Feedlots	Feedlots
56584	Flom Township	Norman	Feedlots	Feedlots
56584	Fossum Township	Norman	Construction Stormwater	Construction Stormwater
56541	Flom Township	Norman	Petroleum Remediation, Leak Site	Petroleum Remediation, Leak Site
56569	Spring Creek Township	Becker	Feedlots	Feedlots
56569	Spring Creek Township	Becker	Feedlots	Feedlots
56584	Flom Township	Norman	Feedlots	Feedlots
56589	Popple Grove Township	Mahnomen	Feedlots	Feedlots
56541	Flom Township	Norman	Petroleum Remediation, Leak Site	Petroleum Remediation, Leak Site

MPCA_ID	MPCA_ID_LI	PROGRAM_NA	PROGRAM_1	INDUSTRIAL
MNR000014605	MNR000014605	Hazardous Waste	Hazardous Waste	Other Gasoline Stations
148628134	148628134	Hazardous Waste	Hazardous Waste	
005-62362	005-62362	Feedlots	Feedlots	
107-69340	107-69340	Feedlots	Feedlots	
005-63578	005-63578	Feedlots	Feedlots	
107-80027	107-80027	Feedlots	Feedlots	
C00037691	C00037691	Stormwater	Stormwater	
LS0015456	LS0015456	Investigation and Cleanup	Investigation and Cleanup	
005-60876	005-60876	Feedlots	Feedlots	
005-64312	005-64312	Feedlots	Feedlots	
107-76140	107-76140	Feedlots	Feedlots	
087-109720	087-109720	Feedlots	Feedlots	
LS0009150	LS0009150	Investigation and Cleanup	Investigation and Cleanup	

