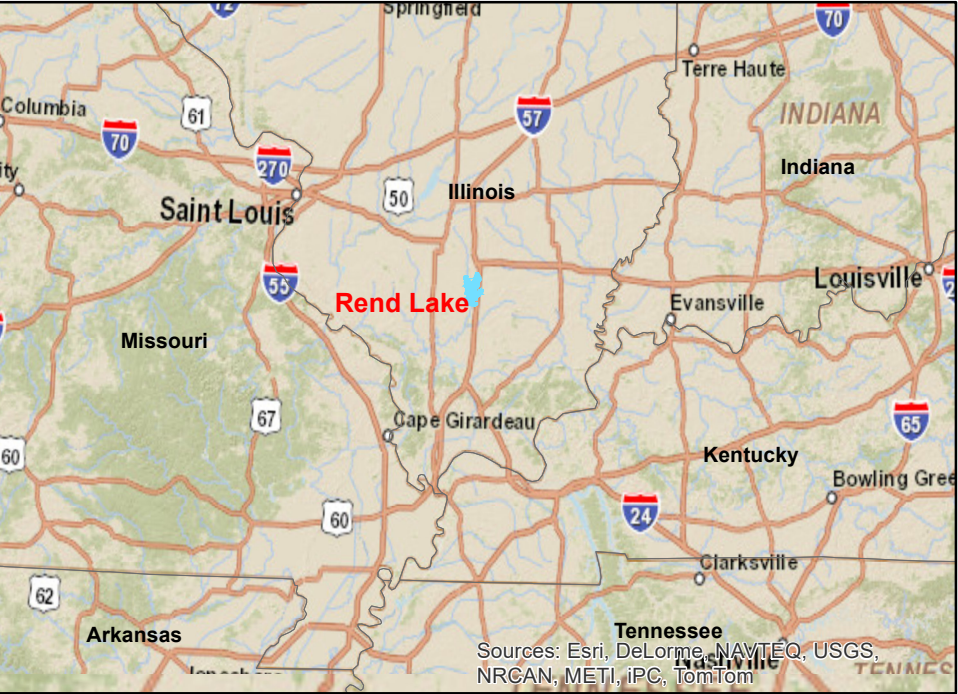


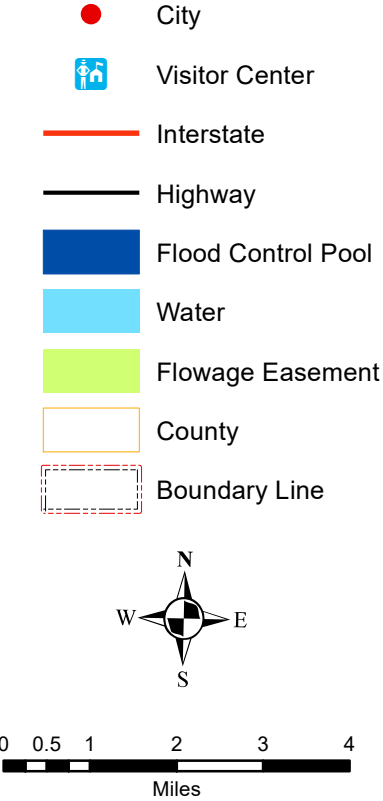
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Vicinity Map



Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, IPC, TomTom

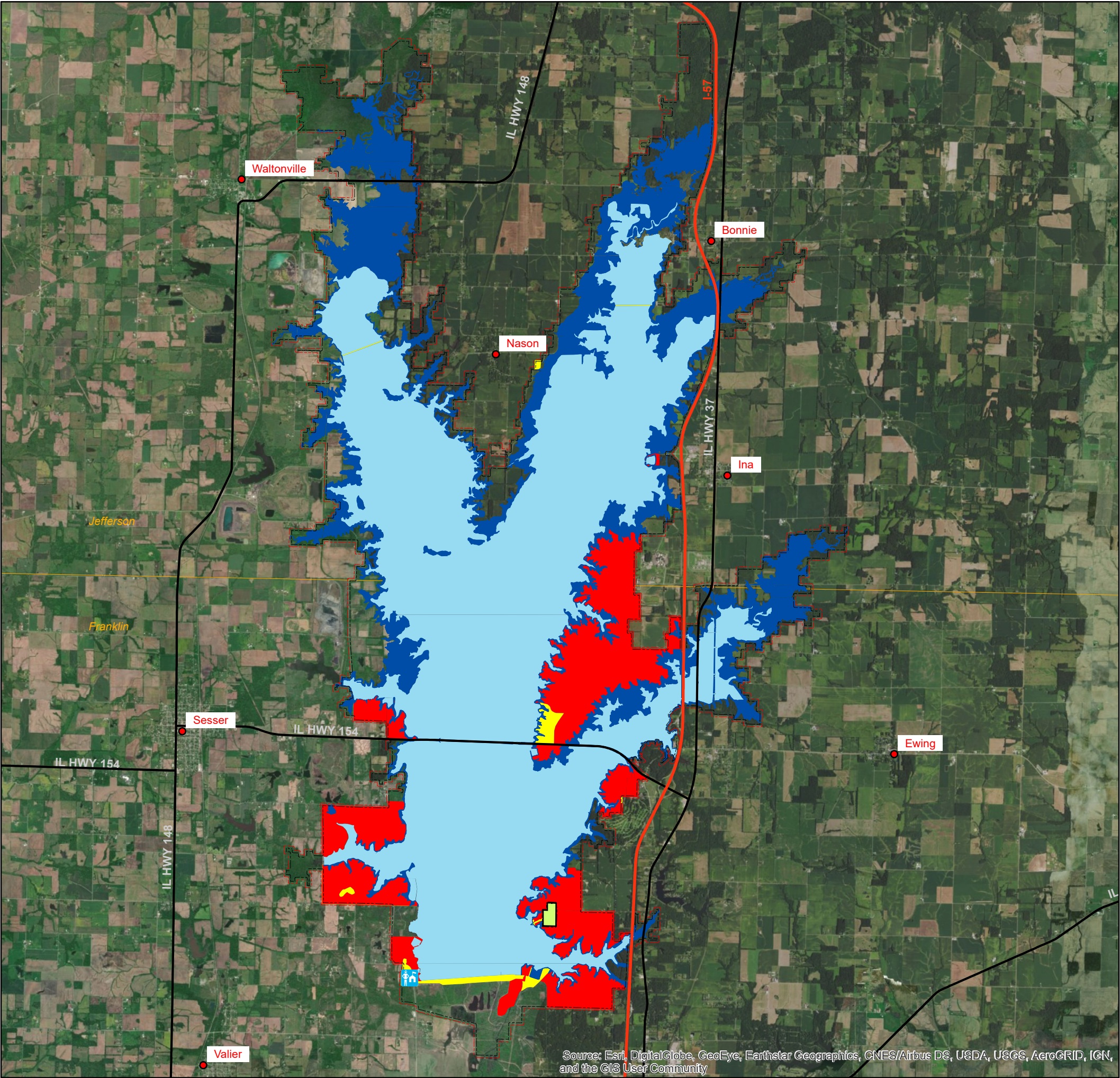
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Plate 4	Zone of Influence and County Population
Plate 5	Recreation Area Overview
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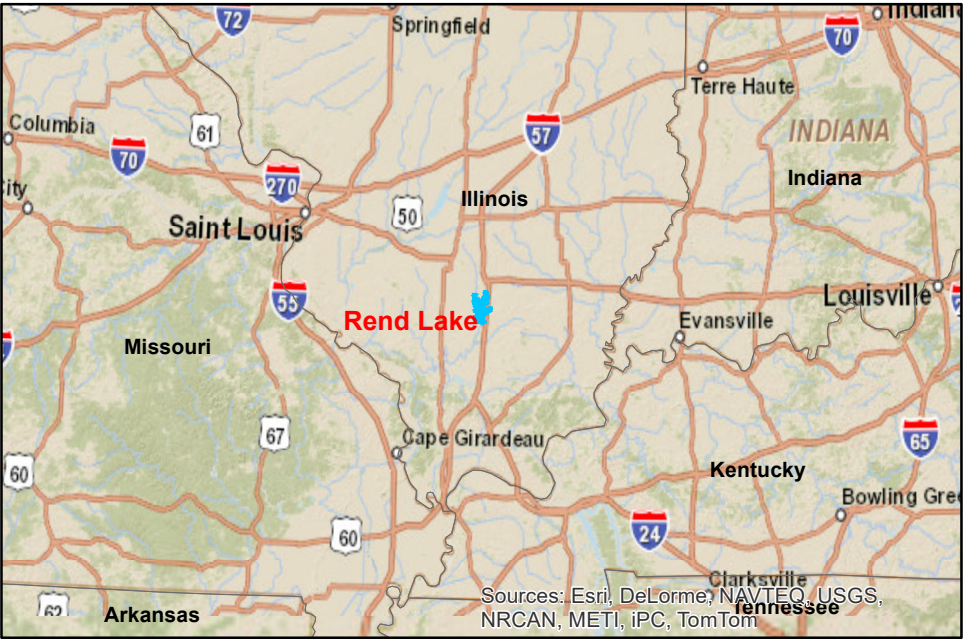
**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

Overview

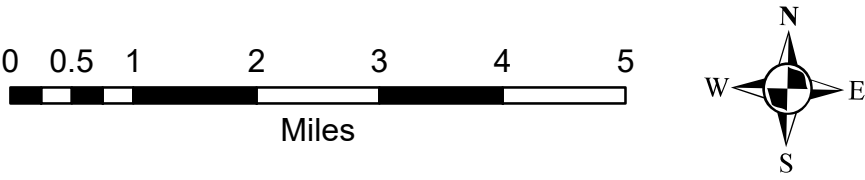
Plate 1



Vicinity Map

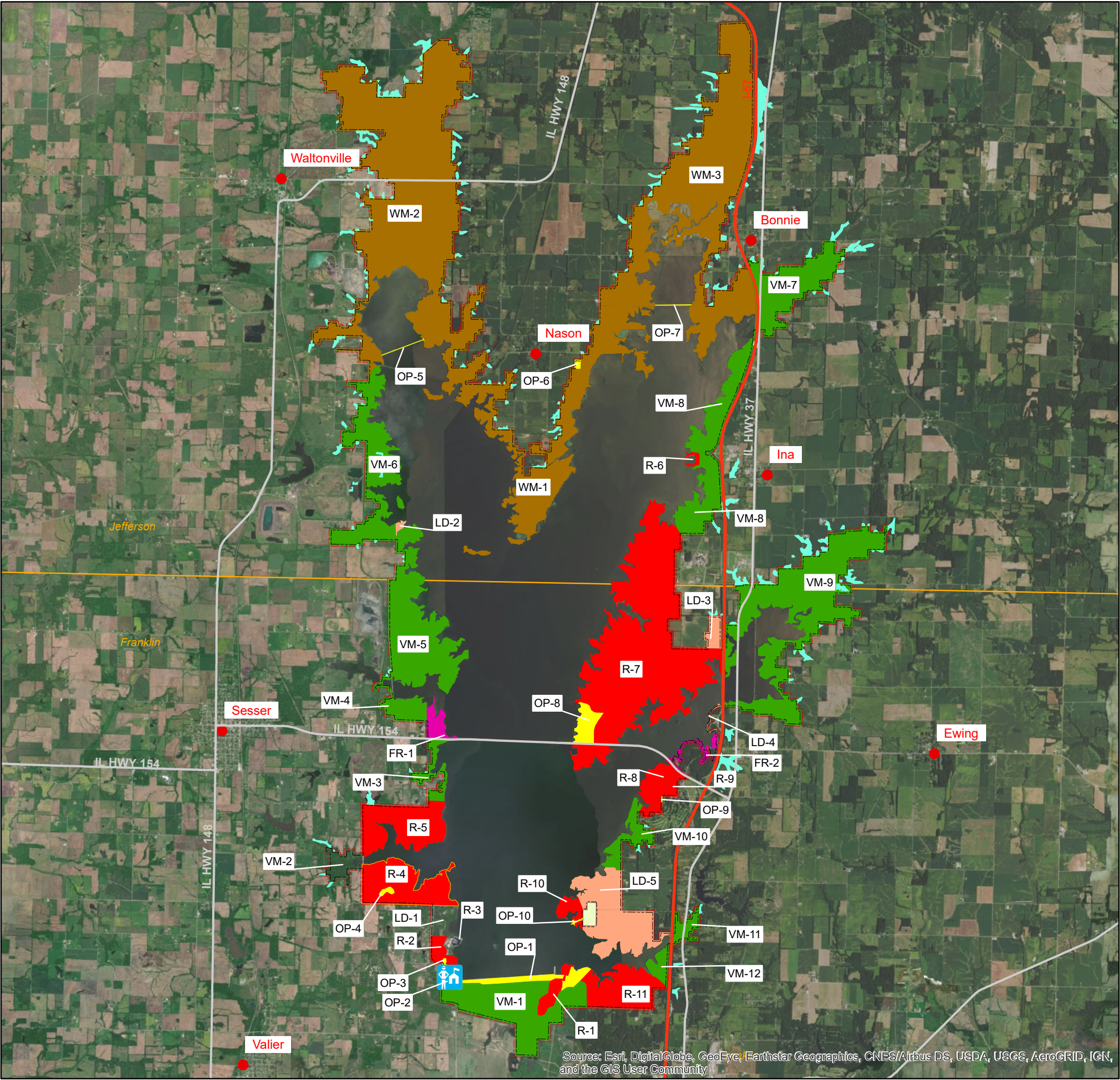


- | | | | |
|--|----------------|--|--------------------|
| | Visitor Center | | Joint Use Pool |
| | City | | Flood Control Pool |
| | Interstate | | Recreation |
| | Highway | | Project Operations |
| | RLCD | | County |
| | | | Boundary Line |



REND LAKE
BIG MUDDY RIVER
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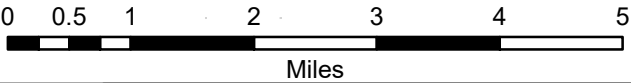
Land Allocation



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Current Acreage Estimation		
AREA	LOCATION NAME	ACRES
PROJECT OPERATIONS		
OP-1	REND LAKE MAIN DAM	132
OP-2	MAINTENANCE COMPLEX	31
OP-3	ADMINISTRATIVE OFFICE	3
OP-4	SANDUSKY LAND TREATMENT FACILITY	12
OP-5	BIG MUDDY SUBIMPOUNDMENT DAM	6
OP-6	IDNR REND LAKE WMA	8
OP-7	CASEY FORK SUBIMPOUNDMENT DAM	5
OP-8	WAYNE FITZGERRELL STATE PARK OFFICE	113
OP-9	MAINTENANCE BUILDING	1
OP-10	RLCD INTAKE STRUCTURE AND PIPELINE	4
TOTAL		316
RECREATION AREAS		
R-1	SPILLWAY RECREATION AREA	87
R-2	DAM WEST RECREATION AREA	83
R-3	REND LAKE MARINA	40
R-4	SOUTH SANDUSKY RECREATION AREA	462
R-5	NORTH SANDUSKY RECREATION AREA	501
R-6	INA RECREATION AREA	16
R-7	WAYNE FITZGERRELL STATE PARK	2,513
R-8	GUN CREEK RECREATION AREA	157
R-9	RLCD RECREATION	67
R-10	NORTH MARCUM RECREATION AREA	74
R-11	SOUTH MARCUM RECREATION AREA	396
TOTAL		4,396
MULTIPLE RESOURCE MANAGEMENT AREAS-RECREATION-LOW DENSITY		
LD-1	STOCKPILE STORAGE AREA	107
LD-2	TURNIP PATCH MRA	12
LD-3	REND LAKE SHOOTING COMPLEX	67
LD-4	I-57 MRA	4
LD-5	NORTH MARCUM MRA	630
TOTAL		820
MULTIPLE RESOURCE MANAGEMENT AREAS-FUTURE RECREATION		
FR-1	JACKIE BRANCH FUTURE RECREATION AREA	85
FR-2	GUN CREEK COMPLEX	49
TOTAL		135
MULTIPLE RESOURCE VEGETATIVE MANAGEMENT AREAS-(USACE)		
VM-1	MAIN DAM MRA	802
VM-2	SANDUSKY CREEK MRA	131
VM-3	NORTH SANDUSKY MRA	124
VM-4	JACKIE BRANCH MRA	162
VM-5	WEST MRA	964
VM-6	WARD BRANCH MRA	730
VM-7	ATCHISON CREEK MRA	606
VM-8	INA MRA	646
VM-9	GUN CREEK MRA	1,505
VM-10	JONES MRA	181
VM-11	MARCUM CREEK MRA	88
VM-12	SOUTH MARCUM MRA	77
TOTAL		6,017
MULTIPLE RESOURCE WILDLIFE MANAGEMENT AREAS-(IDNR)		
WM-1	REND LAKE WILDLIFE REFUGE	1,109
WM-2	BIG MUDDY WMA	4,087
WM-3	CASEY FORK WMA	2,603
TOTAL		7,799
RECREATIONAL WATERS		
RW-1	GENERAL RECREATION	17,171
RW-2	RESTRICTED WATERS	27
RW-3	NO WAKE WATERS	553
RW-4	WILDLIFE SANCTUARY WATERS	2,882
TOTAL		20,633
TOTAL PROJECT FEE LANDS		19,483
TOTAL EASEMENT LANDS		687
TOTAL RECREATION WATERS		20,633
TOTAL ALL PROJECT LANDS AND WATERS		40,803

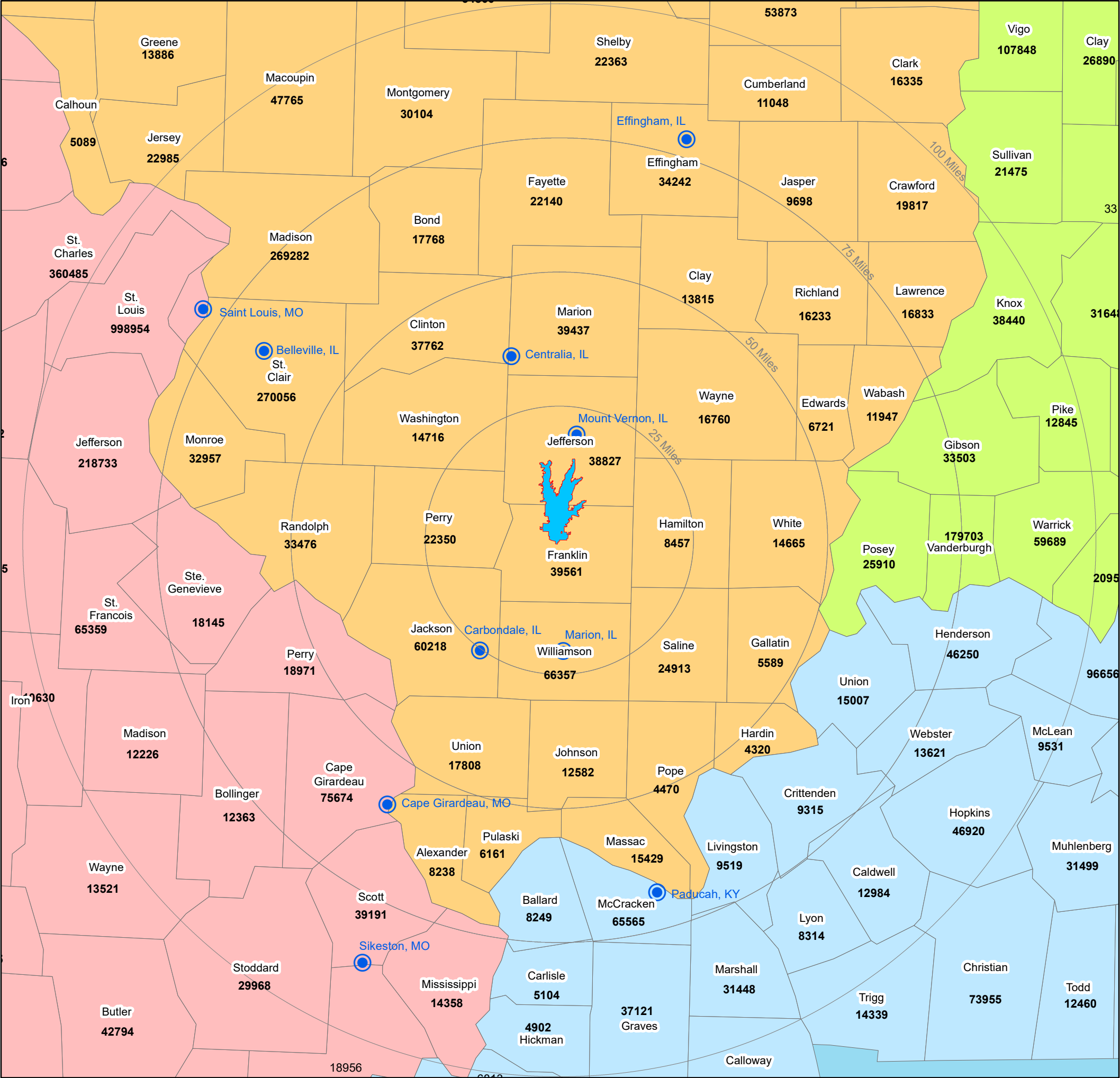
-  Visitor Center
-  City
-  Interstate
-  Highway
-  Flowage_Ea...
-  Project Operations
-  Recreation Area
-  Recreation-Low Density
-  Future Recreations
-  Vegetative Management (USACE)
-  Wildlife Management (IDNR)
-  County



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**REND LAKE
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Land Classification

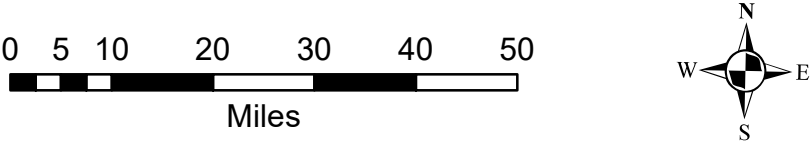



Vicinity Map



CITY	DISTANCE
Belleville, IL	89 Mi
Carbondale, IL	33 Mi
Centralia, IL	48 Mi
Effingham, IL	90 Mi
Marion, IL	27 Mi
Mount Vernon, IL	30 Mi
Paducah, KYU	76 Mi
Cape Girardeau, MO	75 Mi
Saint Louis, MO	100 Mi
Sikeston, MO	98 Mi

- City
- Rend lake
- Illinois
- Indiana
- Kentucky
- Missouri



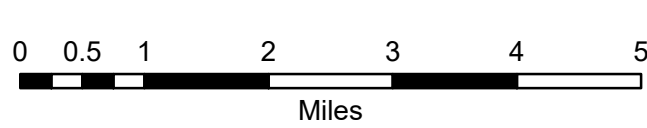
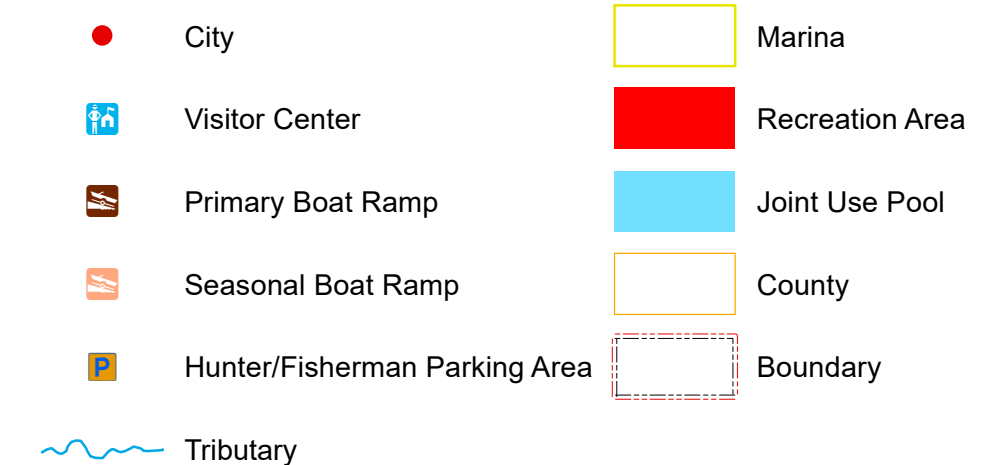
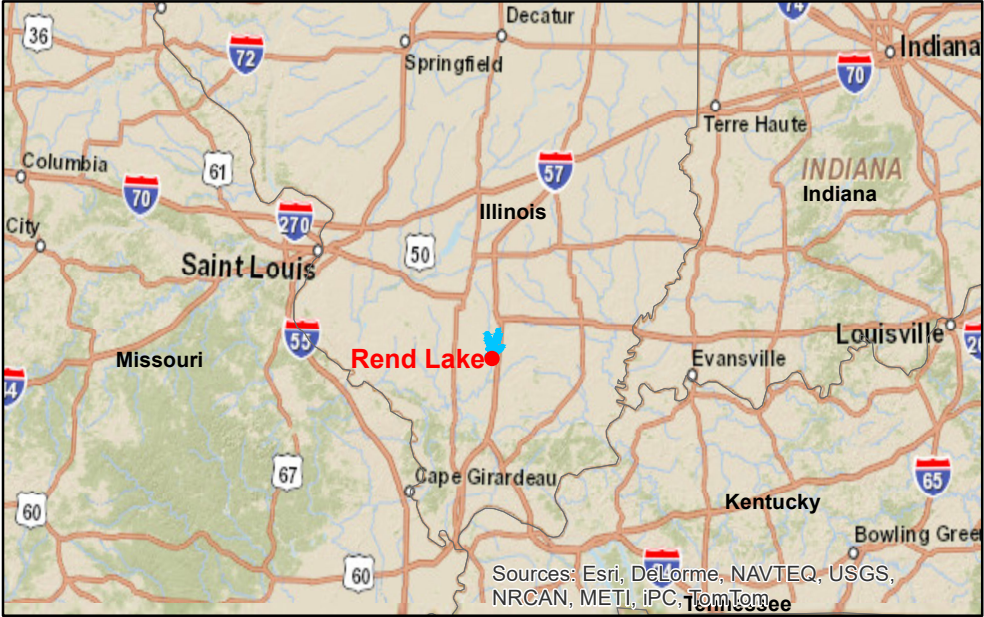



REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018

ZONE OF INFLUENCE
AND COUNTY POPULATION

Plate 4

Vicinity Map



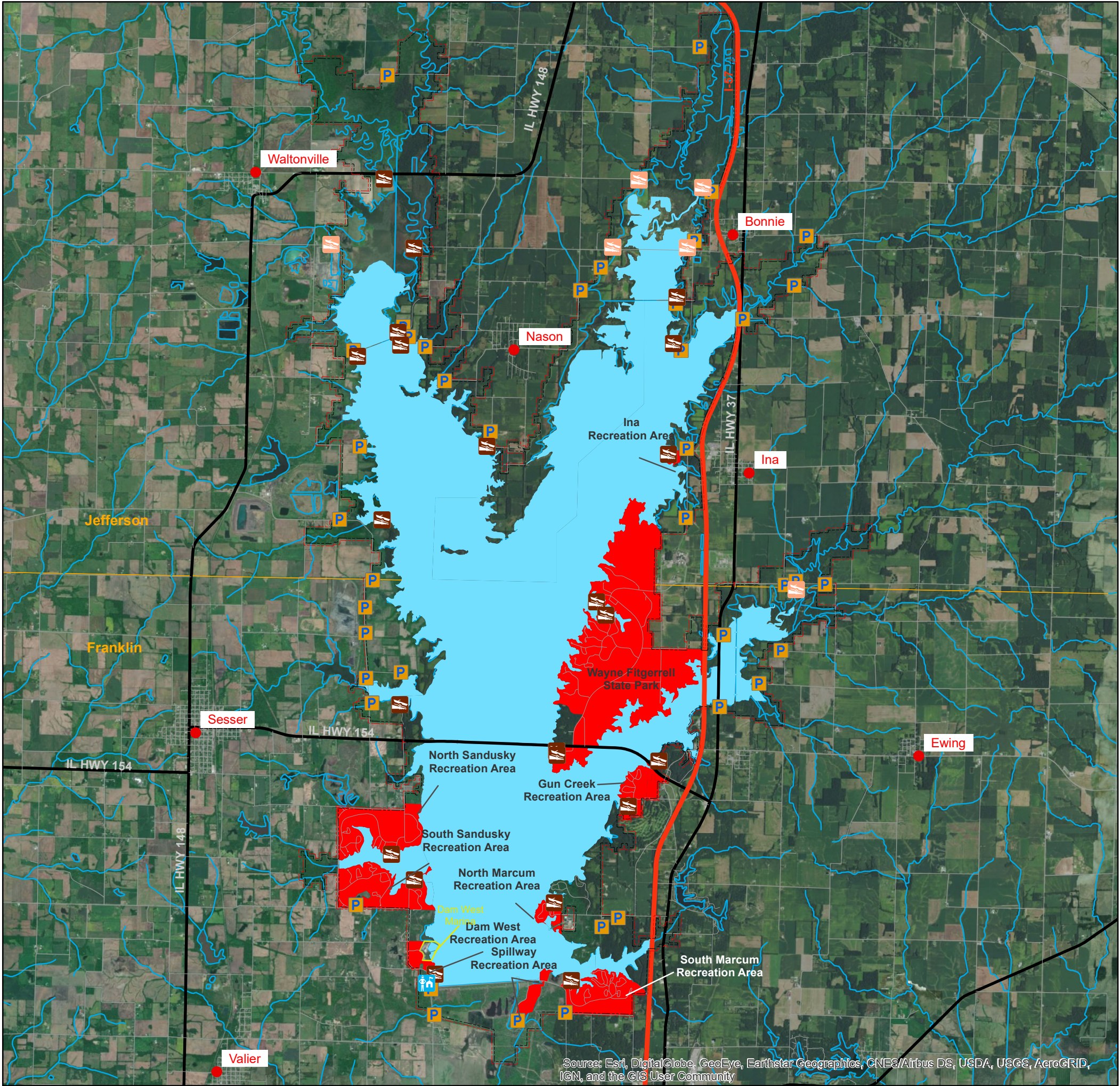


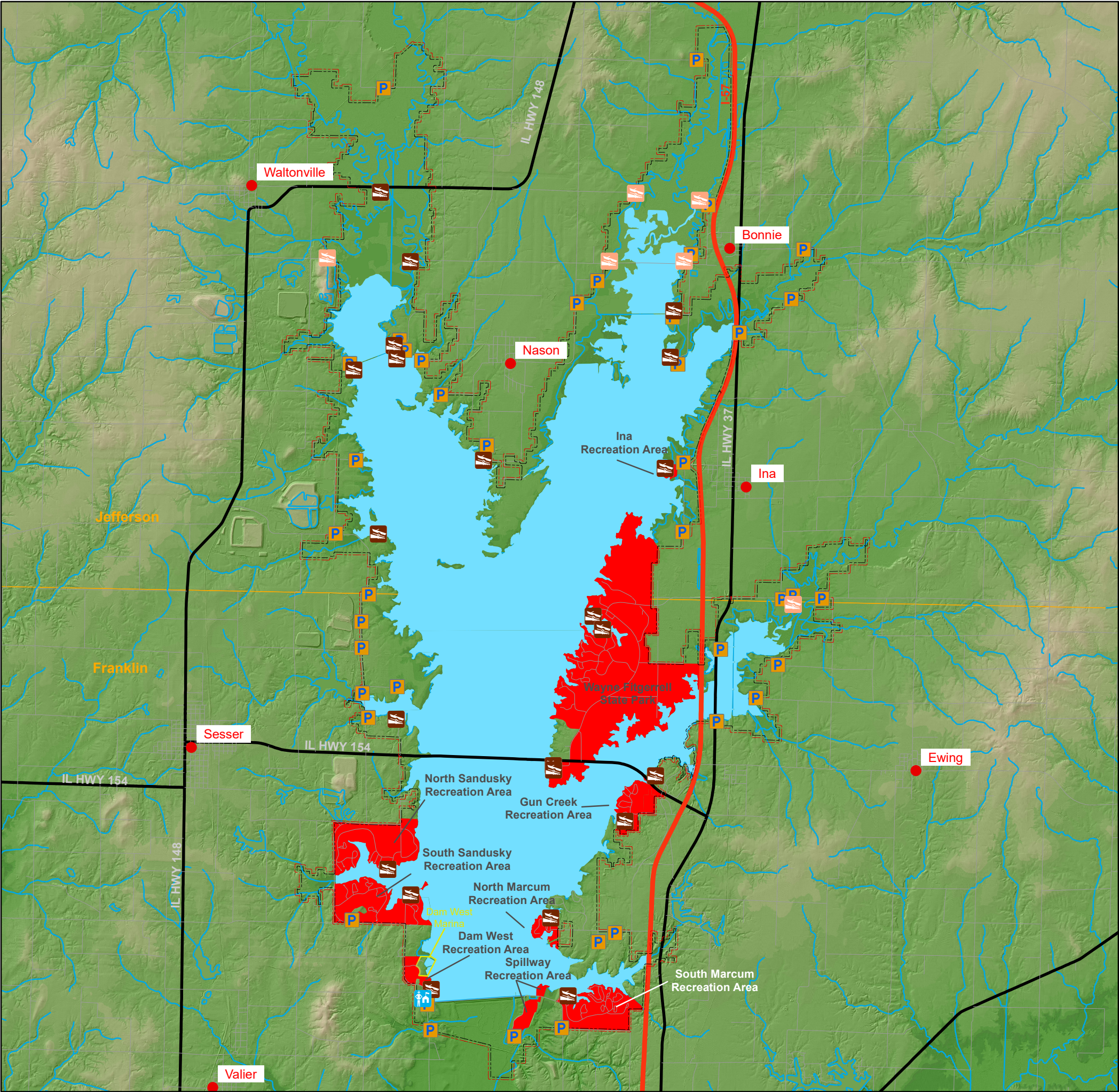
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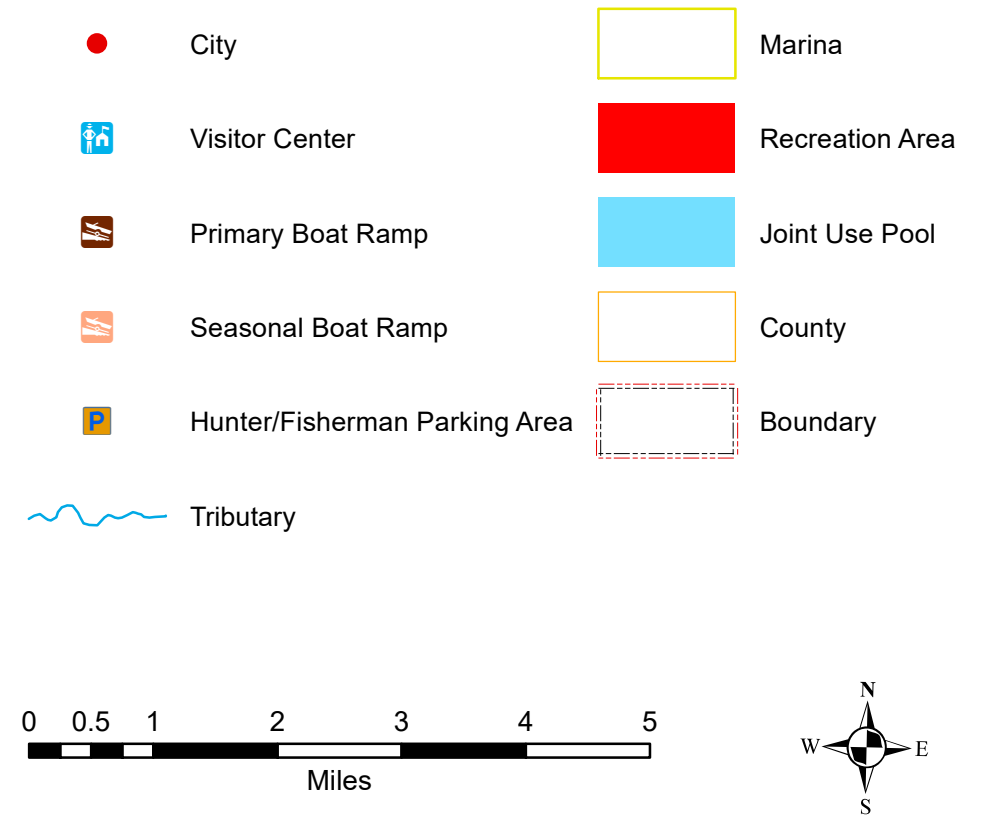
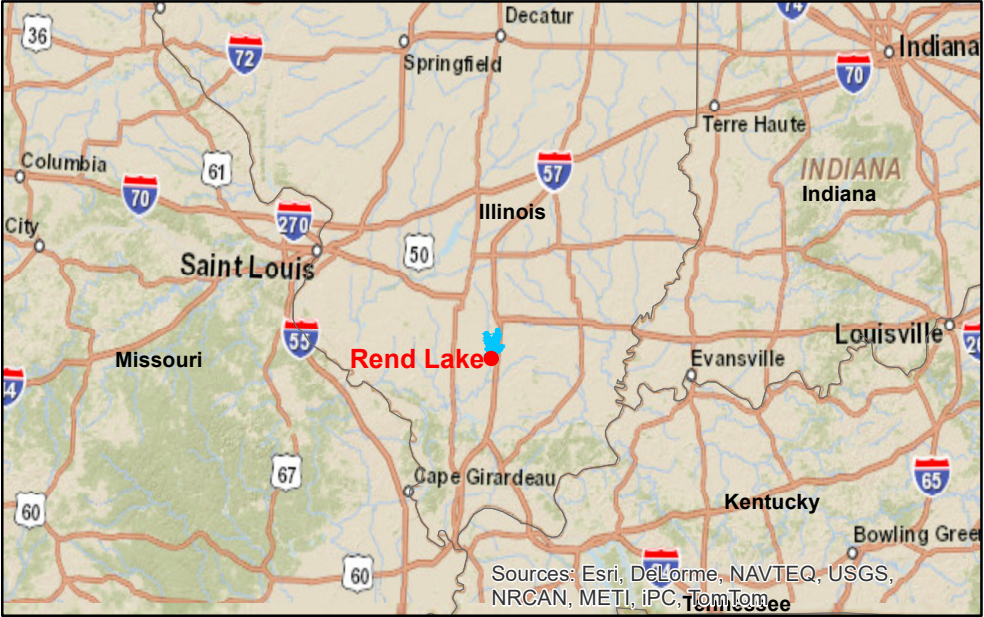
**Recreation Area:
Overview**


Plate 5A





Vicinity Map





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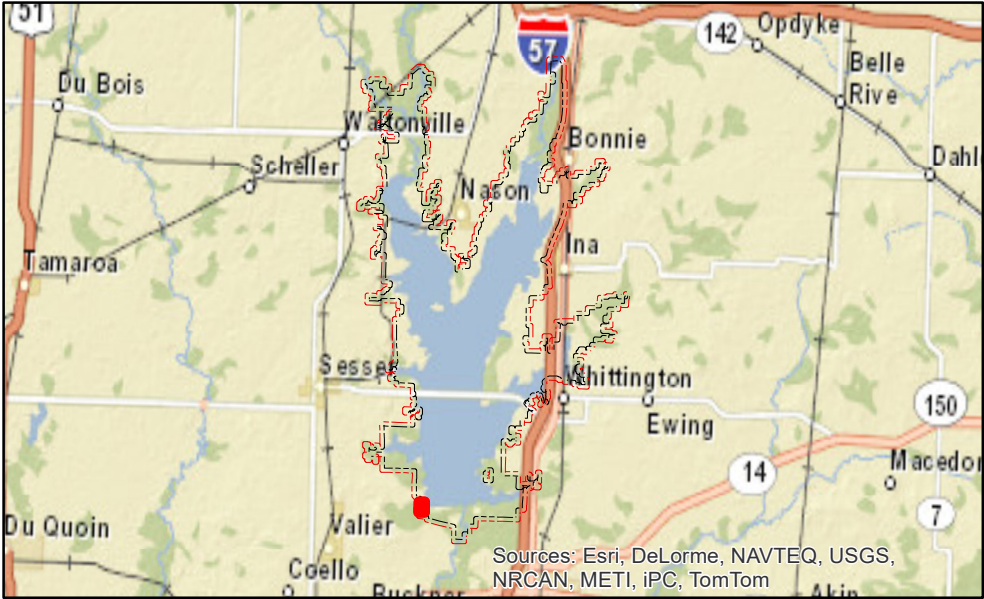
**REND LAKE
BIG MUDDY RIVER
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Recreation Area:

Overview

Plate 5B

Vicinity Map



Maintenance Compound (1)



Rend Lake Bike Trail (1)



Catfish Cove Pond and Trail (1)



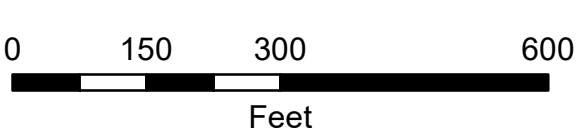
Nature Trail (1)



Recreation Area (2)



Boundary Line (1)



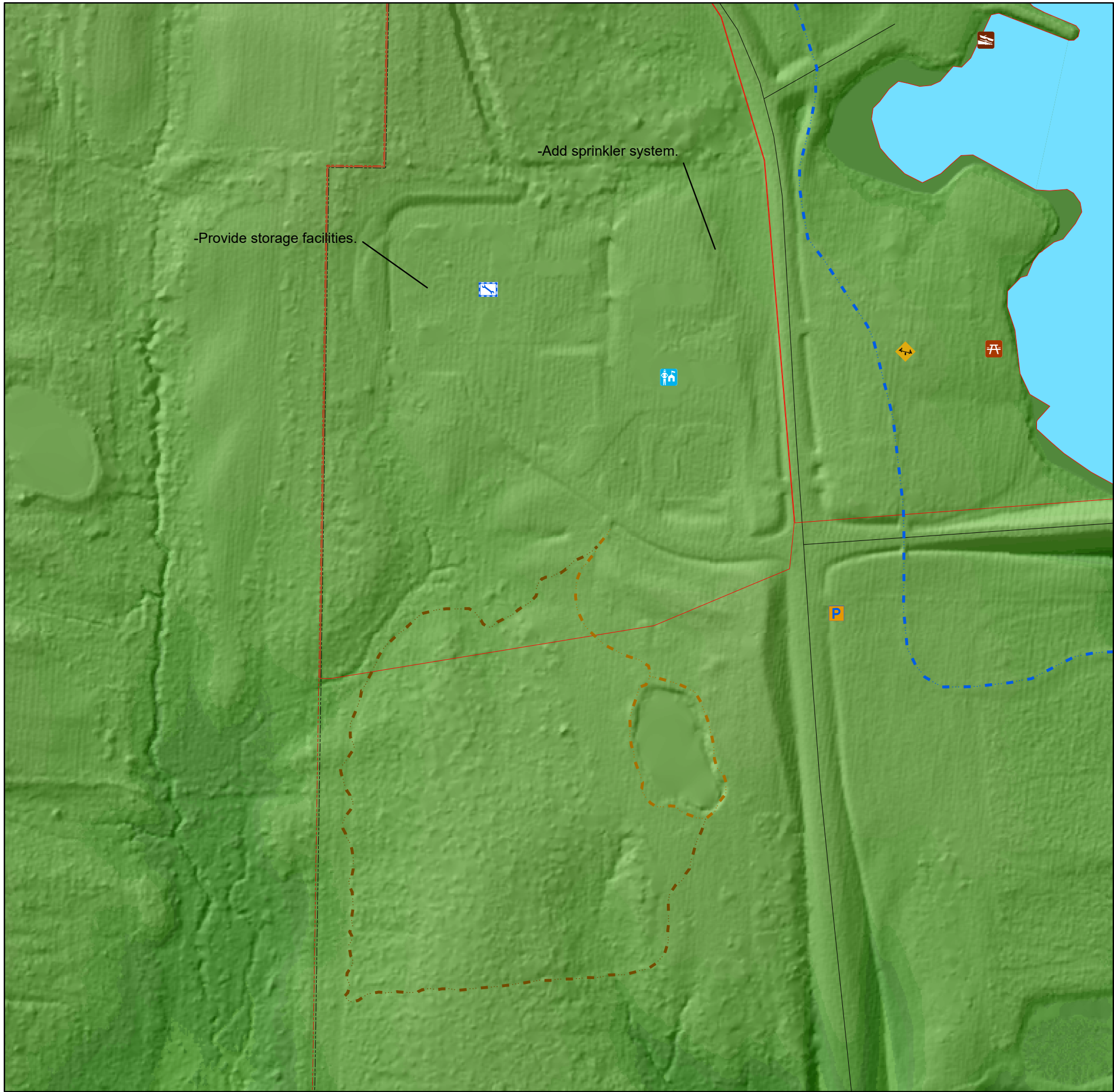
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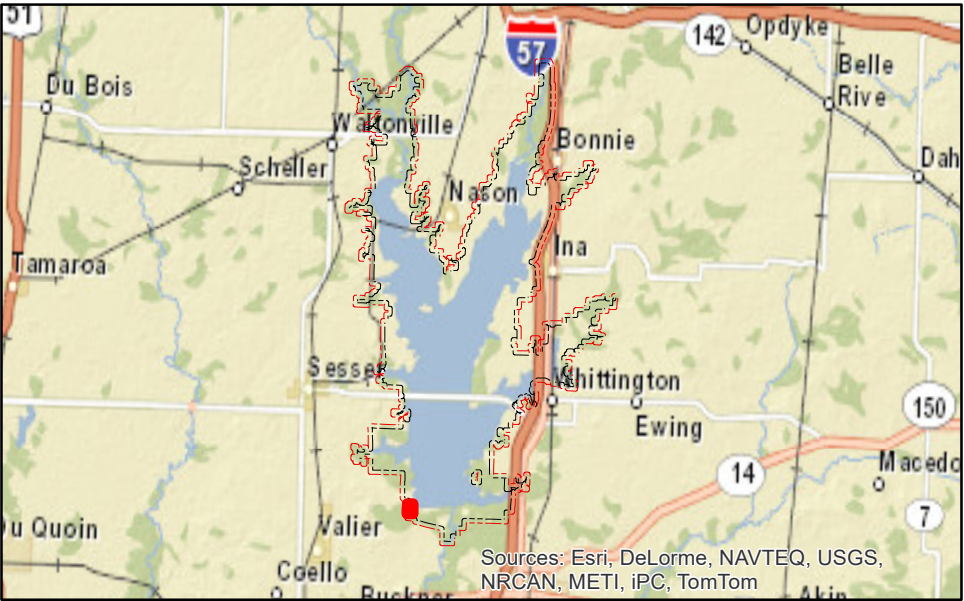
**Recreation Area:
VISITOR CENTER and
MAINTENANCE COMPLEX**

Plate 6-A





Vicinity Map



Visitor Center (1)



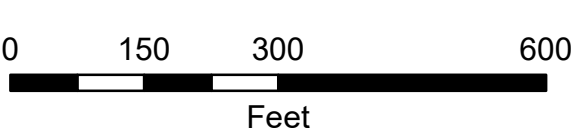
Maintenance Compound (1)



Recreation Area (2)



Boundary Line (1)



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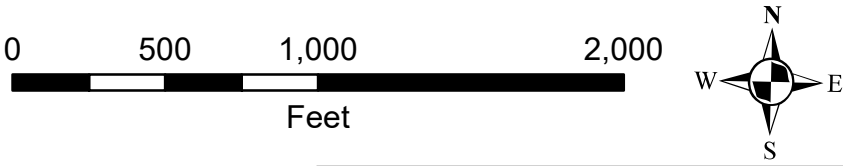
**Recreation Area:
VISITOR CENTER and
MAINTENANCE COMPLEX**

Plate 6-B

Vicinity Map



- | | | | |
|--|----------------------|--|--------------------------|
| | Restroom (1) | | Bridge (3) |
| | Restroom (vault) (1) | | Parking Area (1) |
| | Playground (1) | | Foot Trail (1) |
| | Picnic Area (1) | | Rend Lake Bike Trail (1) |
| | Group Shelter (1) | | Recreation Area (2) |
| | Amphitheater (1) | | Boundary Line (1) |

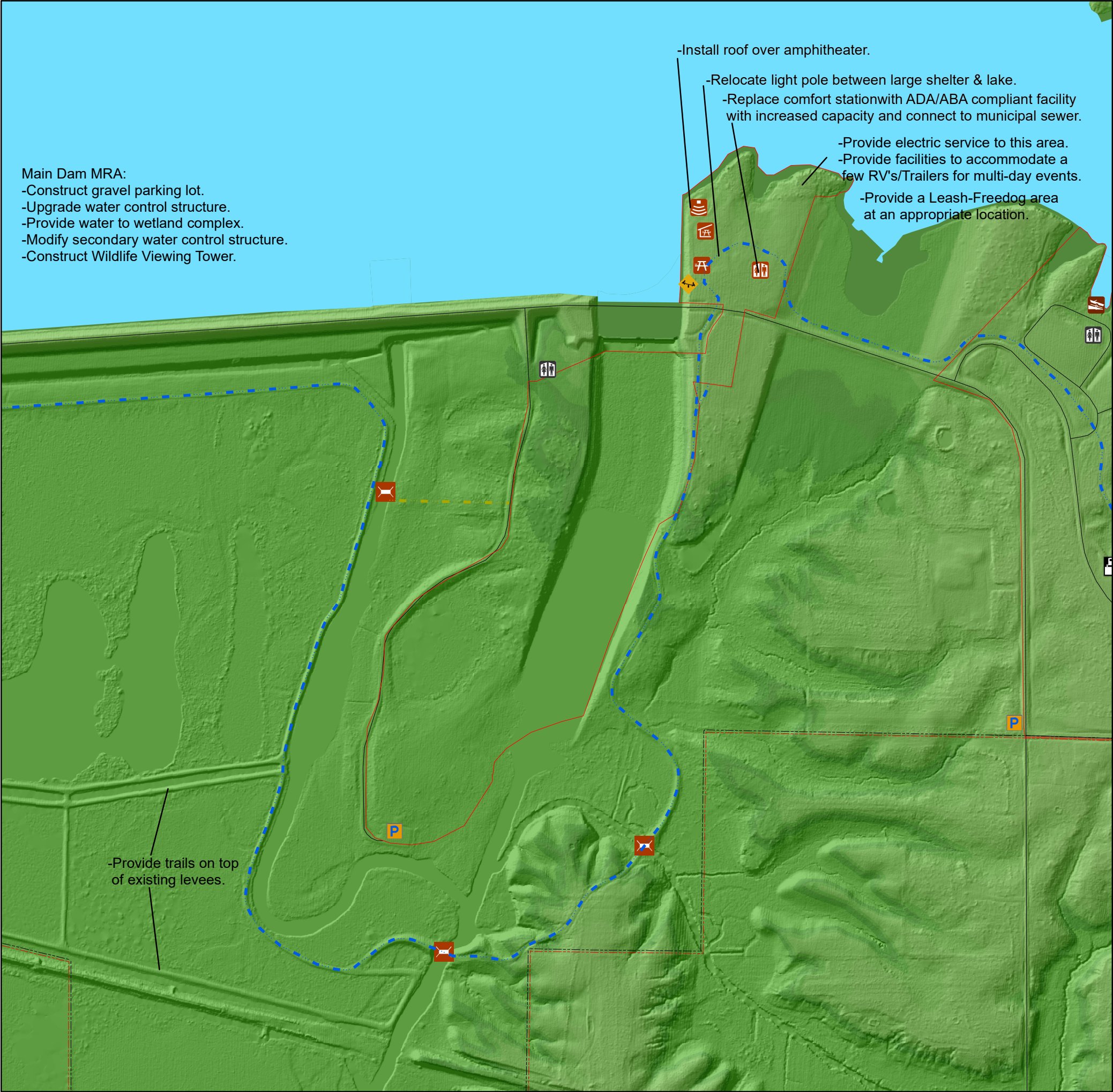


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**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
SPILLWAY RECREATION
AREA**
Plate 7-A





Vicinity Map

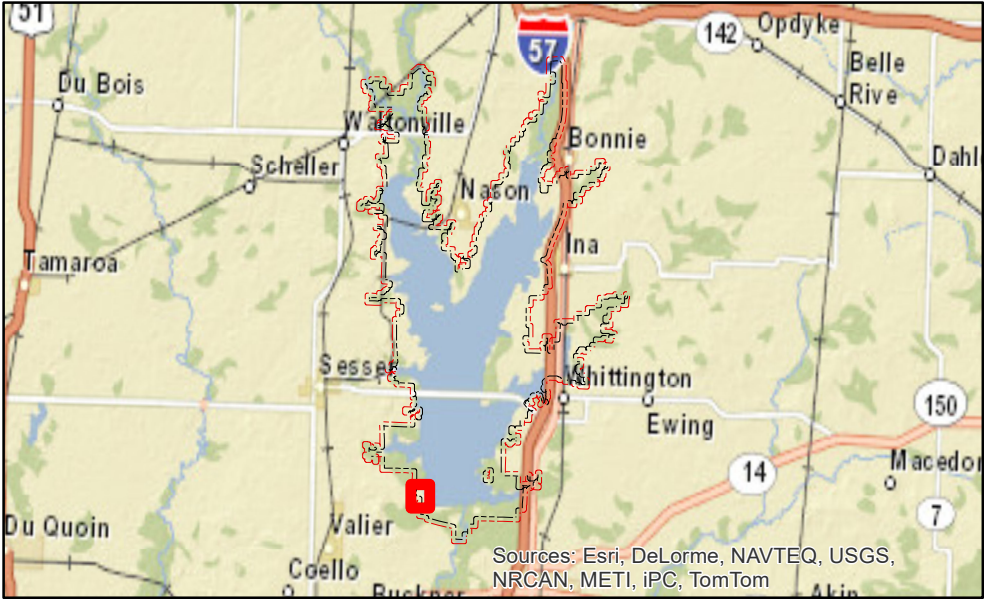











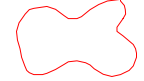



- | | | | |
|--|----------------------|--|--------------------------|
| | Restroom (1) | | Bridge (3) |
| | Restroom (vault) (1) | | Parking Area (1) |
| | Playground (1) | | Foot Trail (1) |
| | Picnic Area (1) | | Rend Lake Bike Trail (1) |
| | Group Shelter (1) | | Recreation Area (2) |
| | Amphitheater (1) | | Boundary Line (1) |




 US Army Corps of Engineers St. Louis District	REND LAKE BIG MUDDY RIVER MASTER PLAN DECEMBER 2018
	Recreation Area: SPILLWAY RECREATION AREA Plate 7-B

Vicinity Map



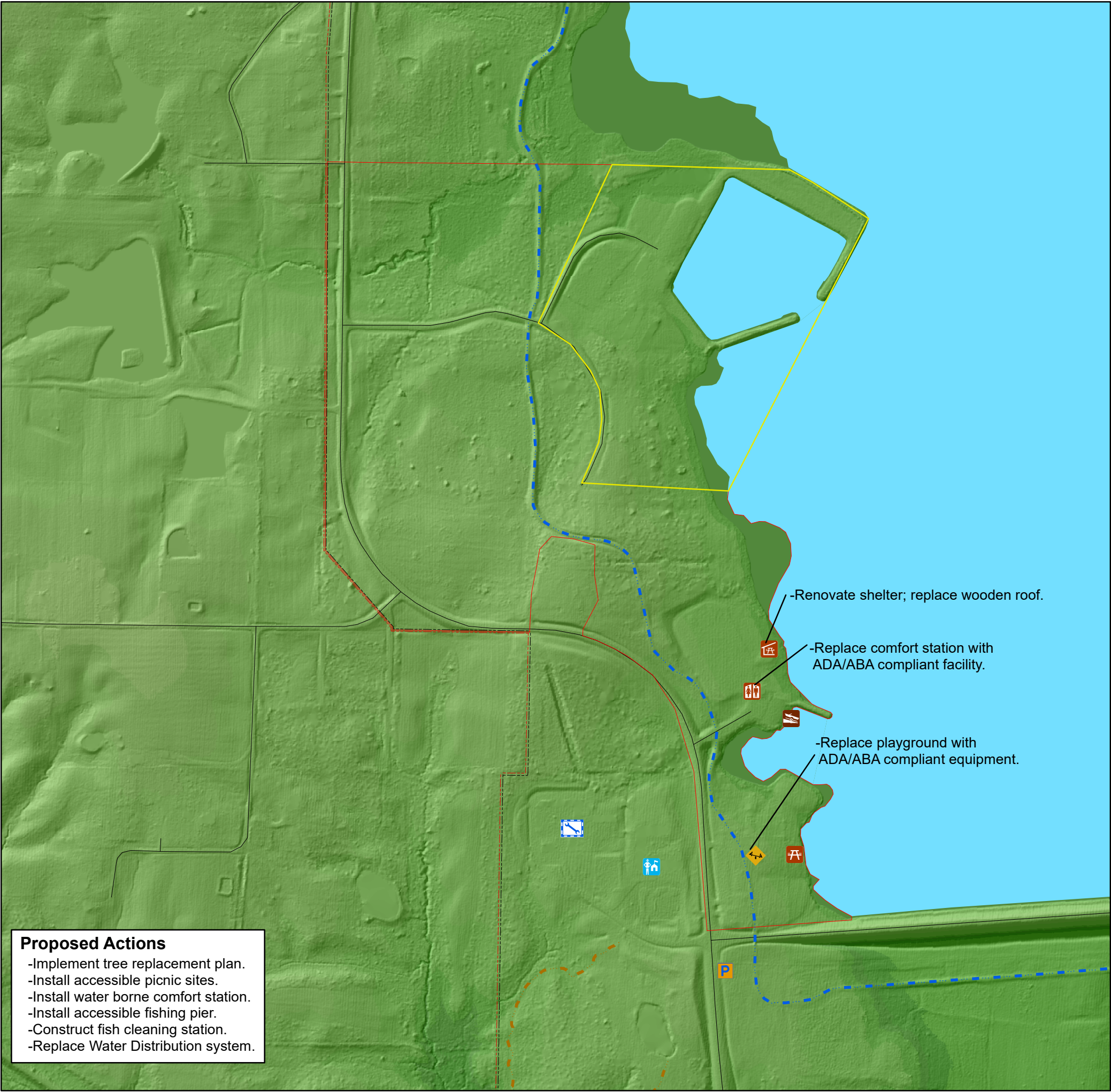
- | | | | |
|---|--------------------------|---|--------------------------|
|  | Visitor Center (1) |  | Parking Area (1) |
|  | Maintenance Compound (1) |  | Nature Trail (1) |
|  | Restroom (1) |  | Rend Lake Bike Trail (1) |
|  | Playground (1) |  | Outgrant (1) |
|  | Picnic Area (1) |  | Recreation Area (1) |
|  | Group Shelter (1) |  | Boundary Line (1) |
|  | Primary Boat Ramp (1) | | |



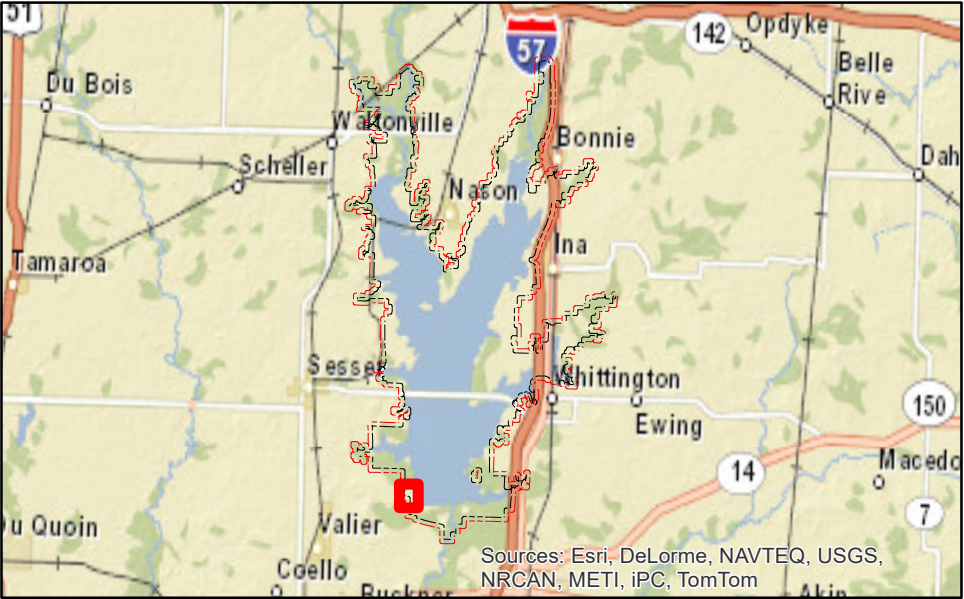
 US Army Corps of Engineers St. Louis District	REND LAKE BIG MUDDY RIVER MASTER PLAN DECEMBER 2018
Recreation Area: DAM WEST DAY USE Plate 8-A	














- Proposed Actions**
- Implement tree replacement plan.
 - Install accessible picnic sites.
 - Install water borne comfort station.
 - Install accessible fishing pier.
 - Construct fish cleaning station.
 - Replace Water Distribution system.





Vicinity Map



- | | | | |
|---|--------------------------|---|--------------------------|
|  | Visitor Center (1) |  | Parking Area (1) |
|  | Maintenance Compound (1) |  | Nature Trail (1) |
|  | Restroom (1) |  | Rend Lake Bike Trail (1) |
|  | Playground (1) |  | Marina (1) |
|  | Picnic Area (1) |  | Recreation Area (1) |
|  | Group Shelter (1) |  | Boundary Line (1) |
|  | Primary Boat Ramp (1) | | |














REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018


Recreation Area:
**DAM WEST
DAY USE**
Plate 8-B

Vicinity Map



- | | | | |
|---|--------------------|---|--------------------------|
|  | Restroom (2) |  | Primary Boat Ramp (1) |
|  | Playground (1) |  | Shower (1) |
|  | Covered Bench (4) |  | Rend Lake Bike Trail (1) |
|  | Picnic Area (1) |  | Recreation Area (1) |
|  | Swimming Beach (1) |  | Boundary Line (1) |
|  | Group Shelter (2) | | |



 US Army Corps of Engineers® St. Louis District	REND LAKE BIG MUDDY RIVER MASTER PLAN DECEMBER 2018
Recreation Area: SOUTH SANDUSKY DAY USE Plate 9-A	

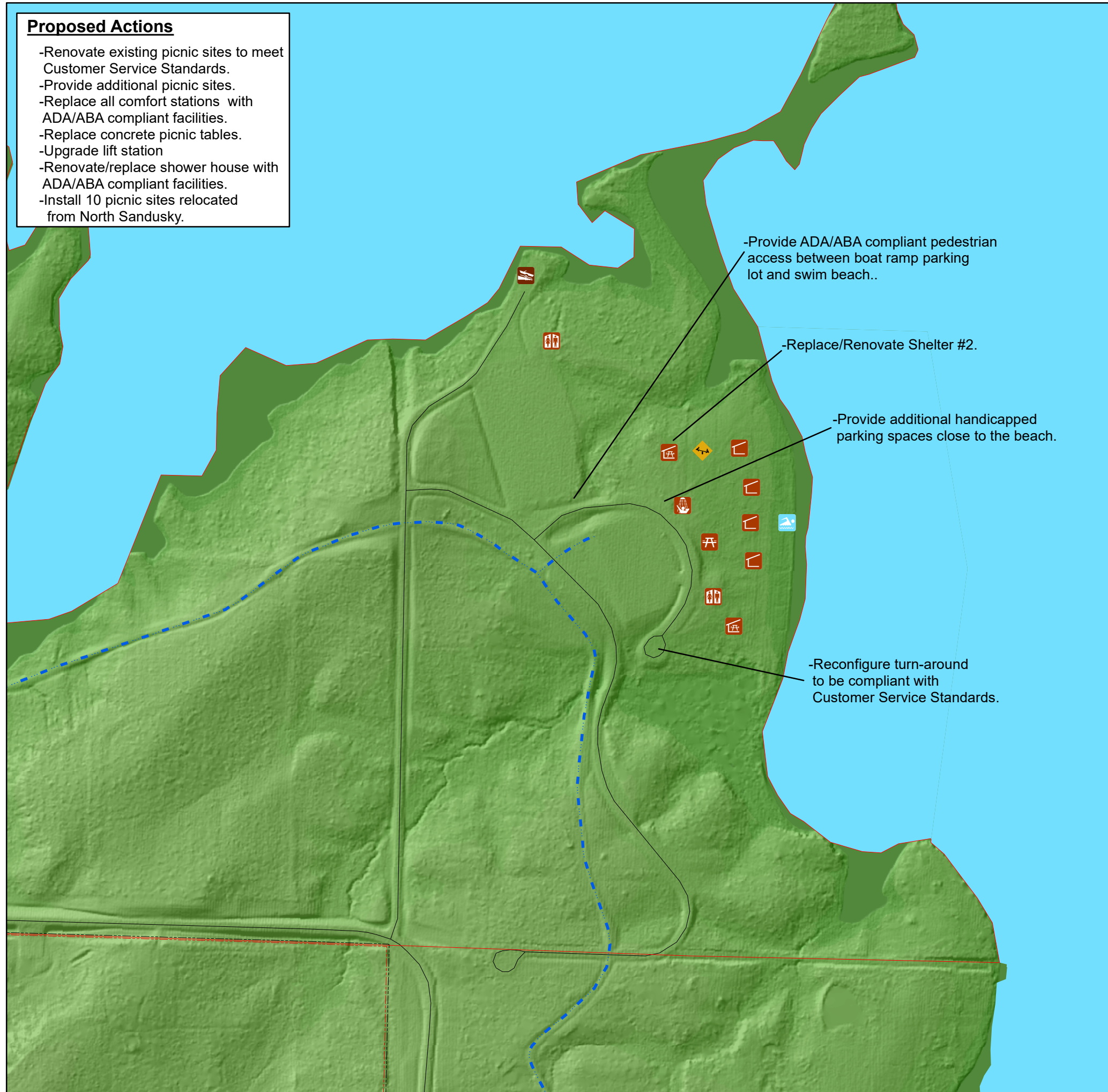
Proposed Actions

- Renovate existing picnic sites to meet Customer Service Standards.
- Provide additional picnic sites.
- Replace all comfort stations with ADA/ABA compliant facilities.
- Replace concrete picnic tables.
- Upgrade lift station
- Renovate/replace shower house with ADA/ABA compliant facilities.
- Install 10 picnic sites relocated from North Sandusky.

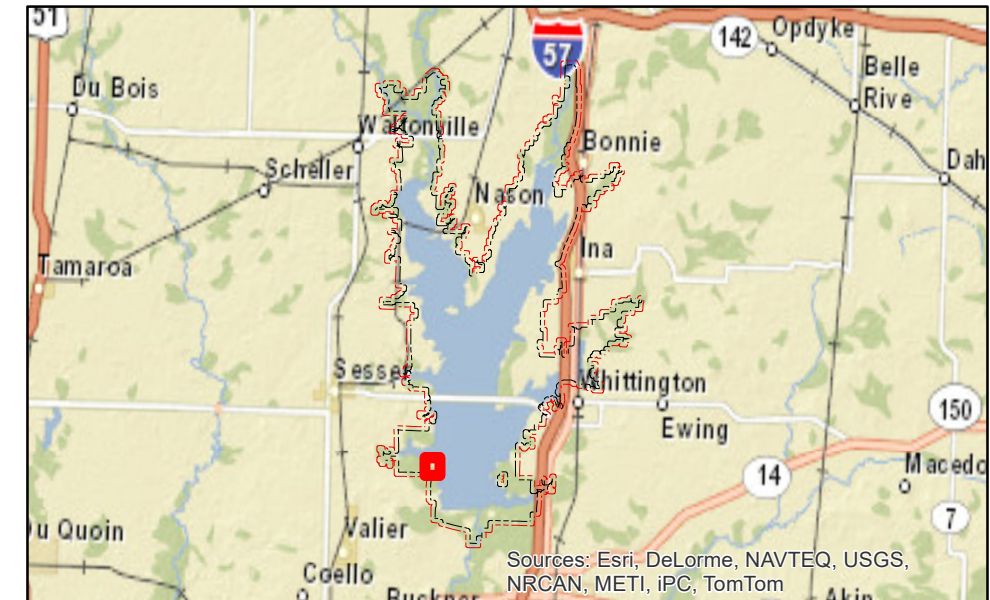


Proposed Actions

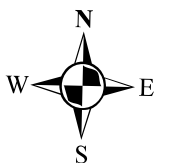
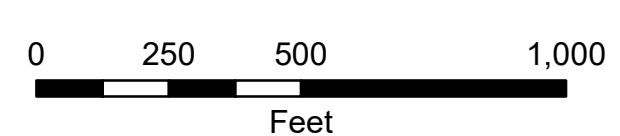
- Renovate existing picnic sites to meet Customer Service Standards.
- Provide additional picnic sites.
- Replace all comfort stations with ADA/ABA compliant facilities.
- Replace concrete picnic tables.
- Upgrade lift station
- Renovate/replace shower house with ADA/ABA compliant facilities.
- Install 10 picnic sites relocated from North Sandusky.



Vicinity Map



- | | | | |
|--|--------------------|--|--------------------------|
| | Restroom (2) | | Primary Boat Ramp (1) |
| | Playground (1) | | Shower (1) |
| | Covered Bench (4) | | Rend Lake Bike Trail (1) |
| | Picnic Area (1) | | Recreation Area (1) |
| | Swimming Beach (1) | | Boundary Line (1) |
| | Group Shelter (2) | | |

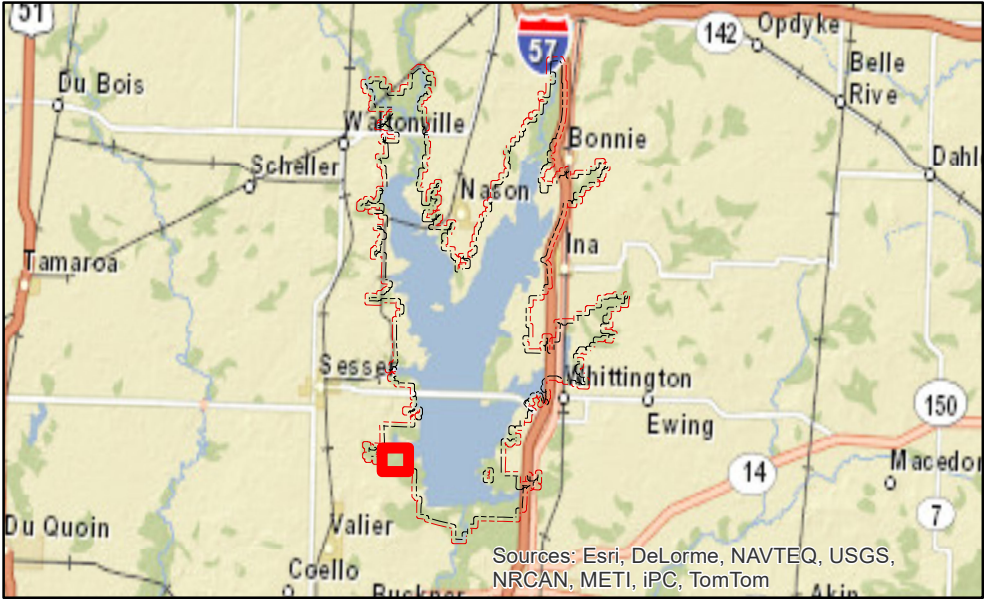












**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
SOUTH SANDUSKY
DAY USE**


Plate 9-B

Vicinity Map



-  Restroom (4)
-  Parking Area (1)
-  Playground (3)
-  Blackberry Nature Trail (1)
-  Shower (3)
-  Rend Lake Bike Trail (1)
-  Feebooth (1)
-  Recreation Area (2)
-  Sanitary Dump Station (1)
-  Boundary Line (1)





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**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
SOUTH SANDUSKY
CAMPGROUND**

Plate 10-A

Proposed Actions

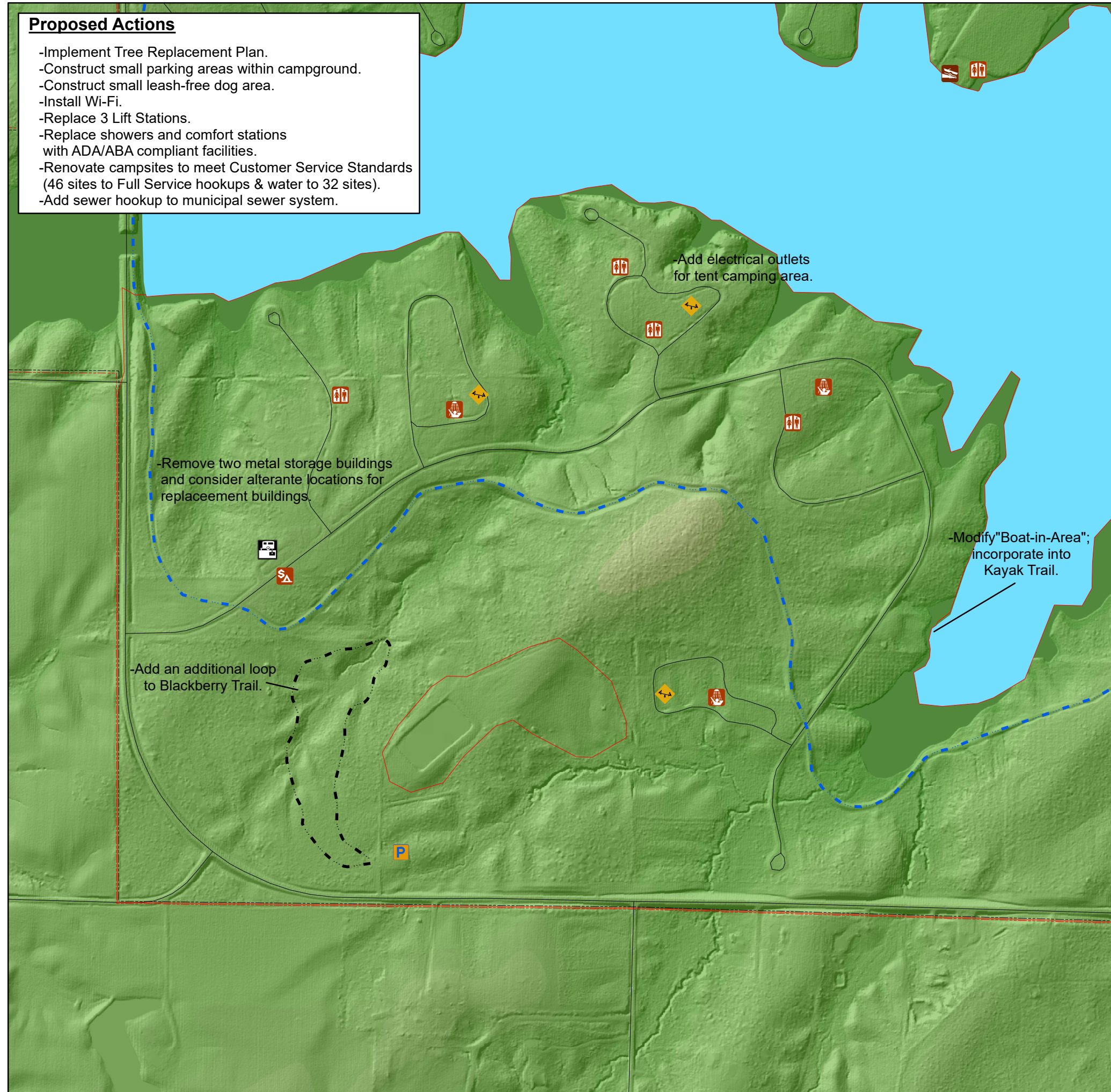
- Implement Tree Replacement Plan.
- Construct small parking areas within campground.
- Construct small leash-free dog area.
- Install Wi-Fi.
- Replace 3 Lift Stations.
- Replace showers and comfort stations with ADA/ABA compliant facilities.
- Renovate campsites to meet Customer Service Standards (46 sites to Full Service hookups & water to 32 sites).
- Add sewer hookup to municipal sewer system.



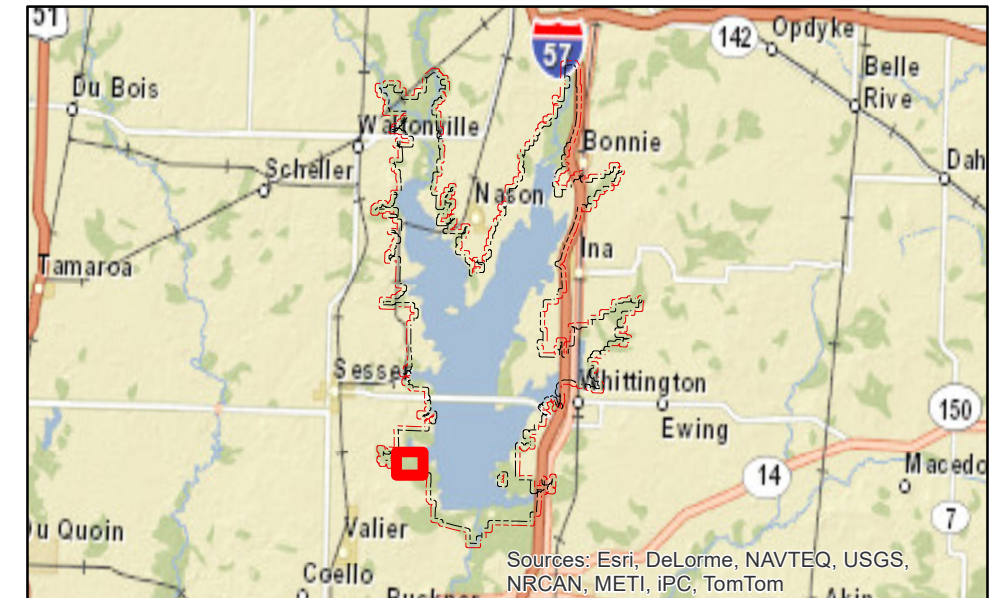
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Proposed Actions

- Implement Tree Replacement Plan.
- Construct small parking areas within campground.
- Construct small leash-free dog area.
- Install Wi-Fi.
- Replace 3 Lift Stations.
- Replace showers and comfort stations with ADA/ABA compliant facilities.
- Renovate campsites to meet Customer Service Standards (46 sites to Full Service hookups & water to 32 sites).
- Add sewer hookup to municipal sewer system.



Vicinity Map



Restroom (4)



Parking Area (1)



Playground (3)



Blackberry Nature Trail (1)



Shower (3)



Rend Lake Bike Trail (1)



Feebooth (1)



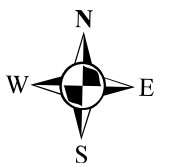
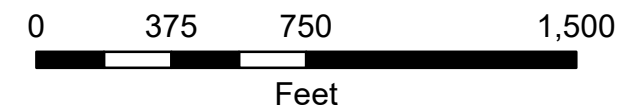
Recreation Area (2)



Sanitary Dump Station (1)



Boundary Line (1)



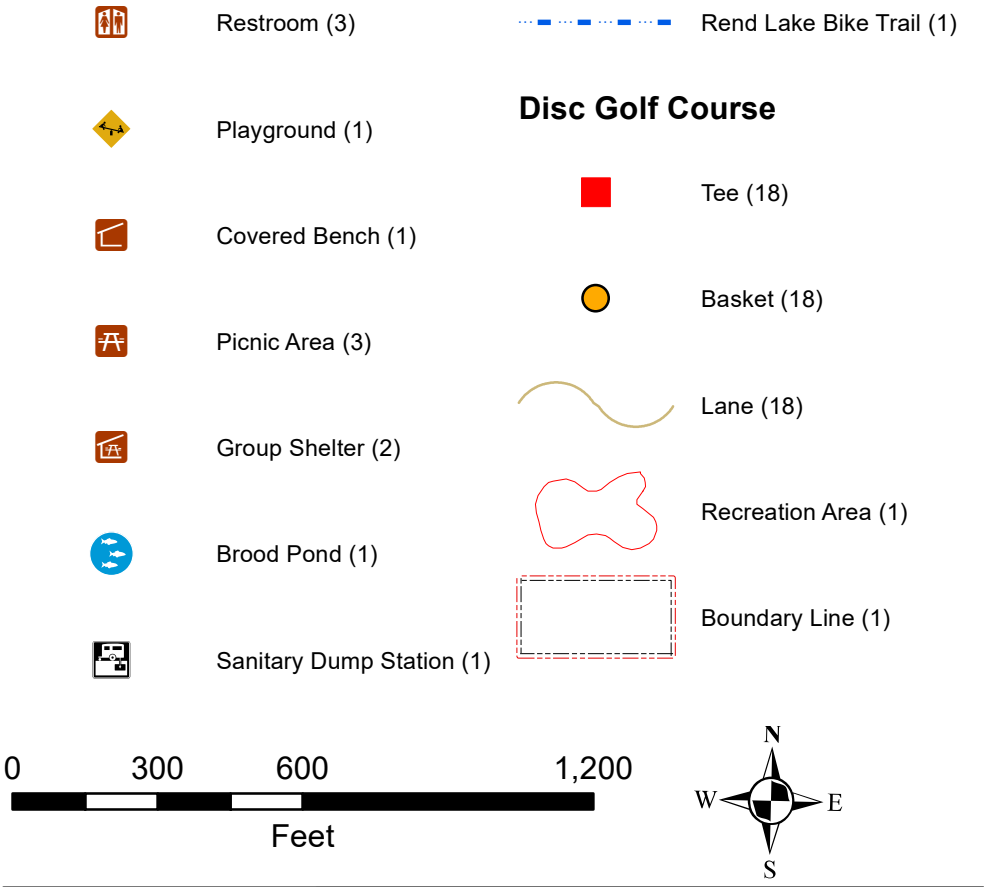
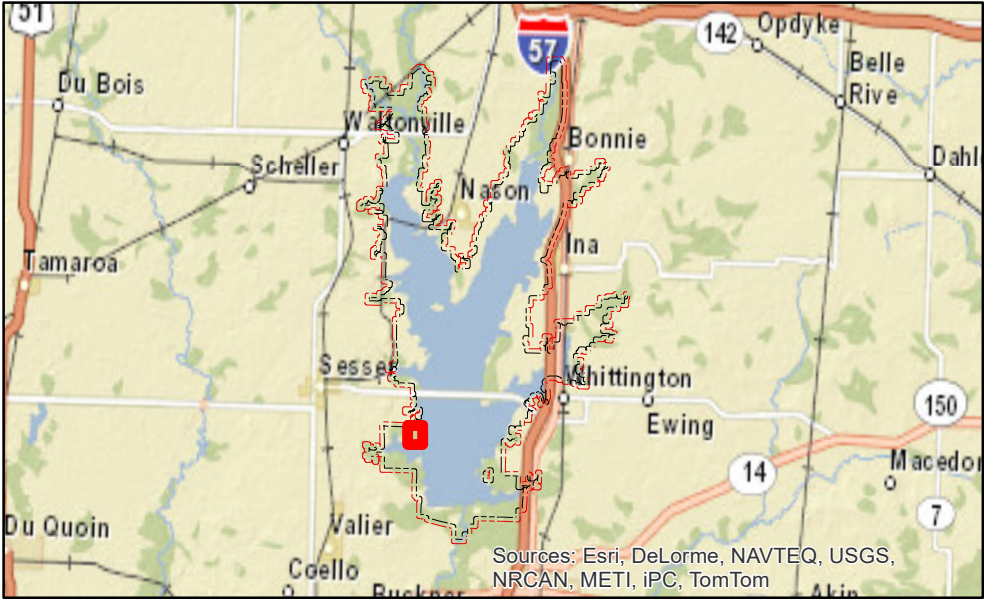
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REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018

Recreation Area:
**SOUTH SANDUSKY
CAMPGROUND**

Plate 10-B

Vicinity Map



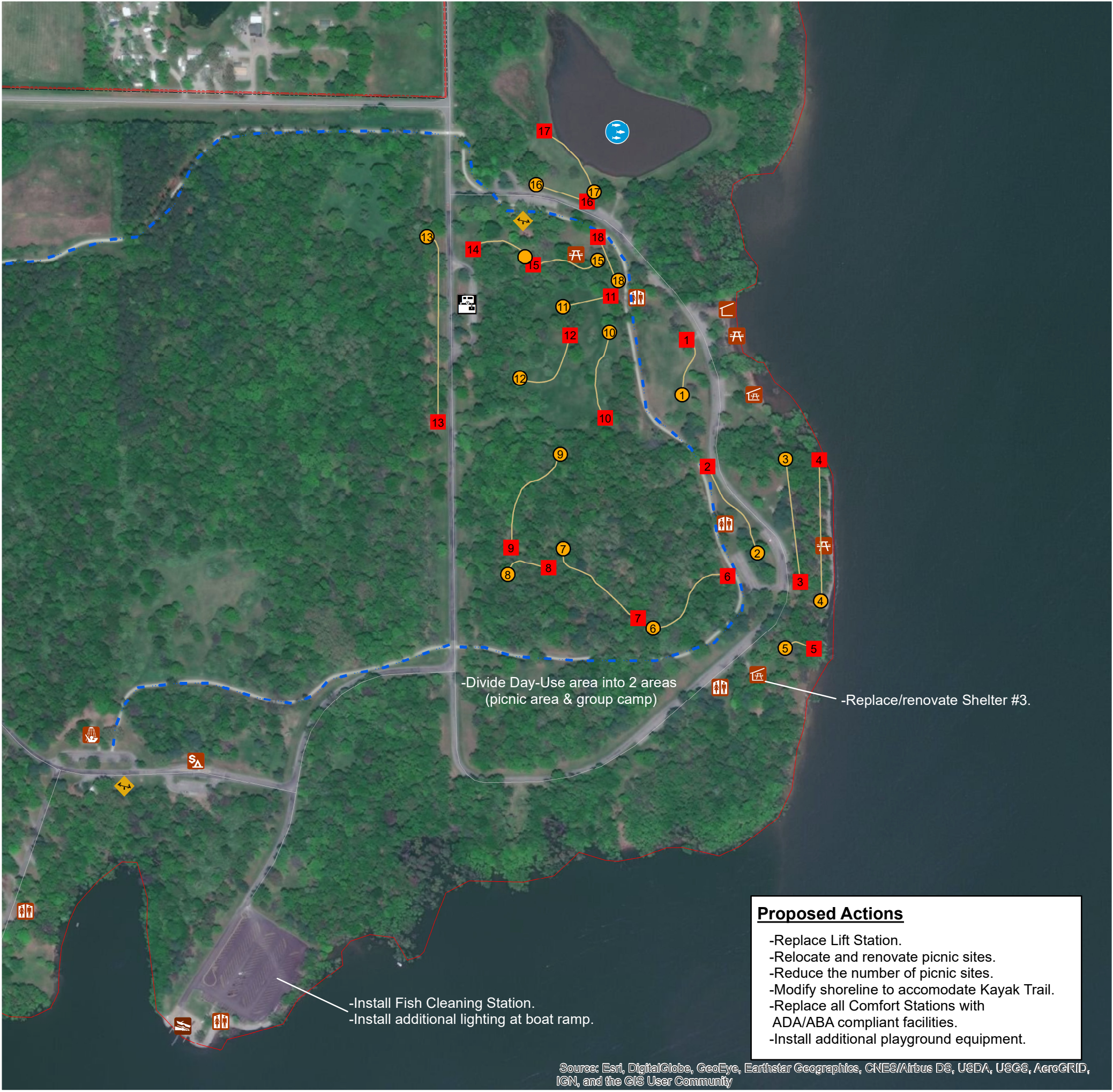


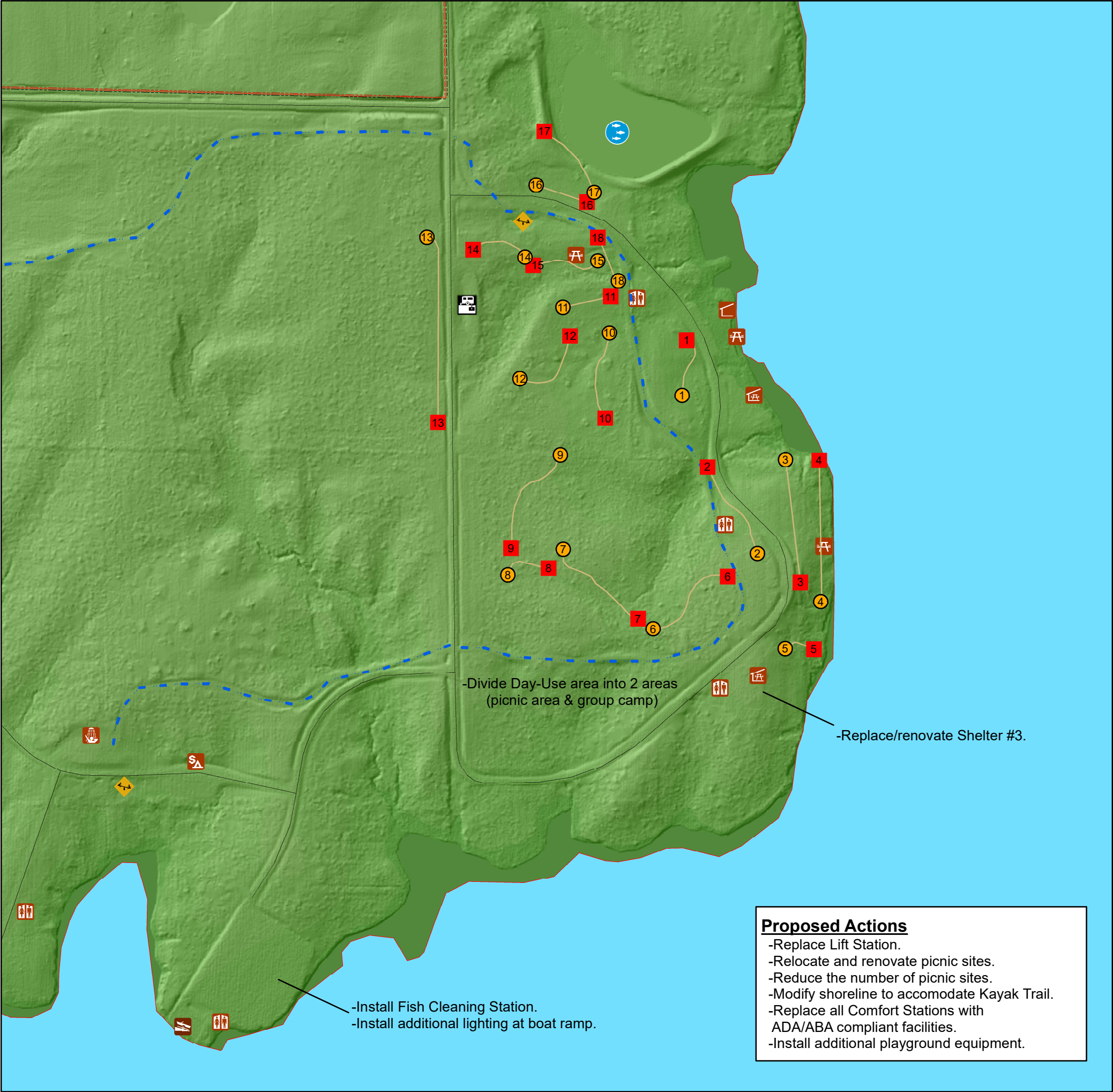
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St. Louis District

**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
NORTH SANDUSKY
DAY USE**

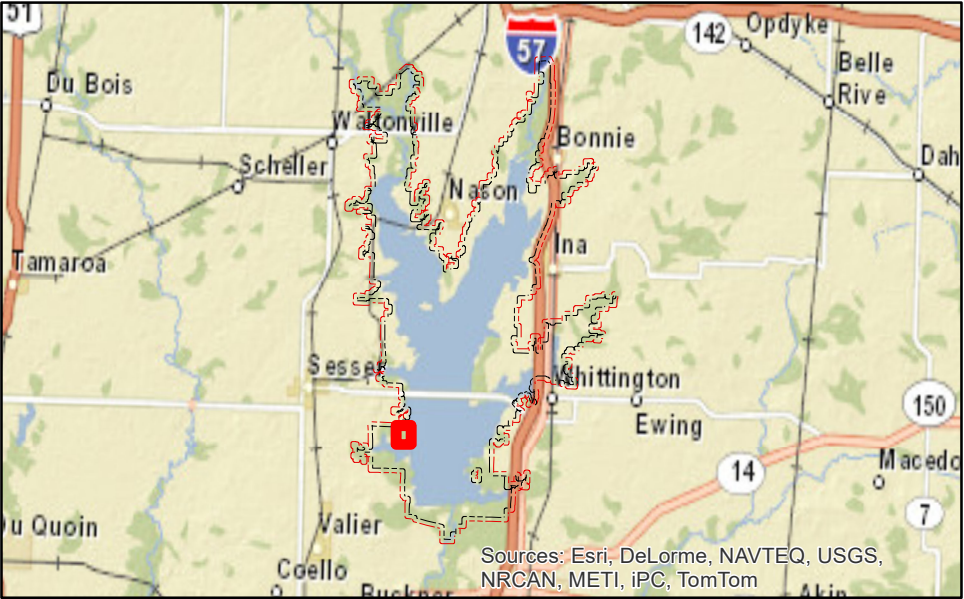
Plate 11-A





- Proposed Actions**
- Replace Lift Station.
 - Relocate and renovate picnic sites.
 - Reduce the number of picnic sites.
 - Modify shoreline to accomodate Kayak Trail.
 - Replace all Comfort Stations with ADA/ABA compliant facilities.
 - Install additional playground equipment.

Vicinity Map



- | | |
|---------------------------|--------------------------|
| Restroom (3) | Rend Lake Bike Trail (1) |
| Playground (1) | |
| Covered Bench (1) | |
| Picnic Area (3) | |
| Group Shelter (2) | |
| Brood Pond (1) | |
| Sanitary Dump Station (1) | |
- Disc Golf Course**
- | | |
|---------------------|--|
| Tee (18) | |
| Basket (18) | |
| Lane (18) | |
| Recreation Area (1) | |
| Boundary Line (1) | |



 US Army Corps of Engineers St. Louis District	REND LAKE BIG MUDDY RIVER MASTER PLAN DECEMBER 2018
	Recreation Area: NORTH SANDUSKY DAY USE Plate 11-B

Vicinity Map



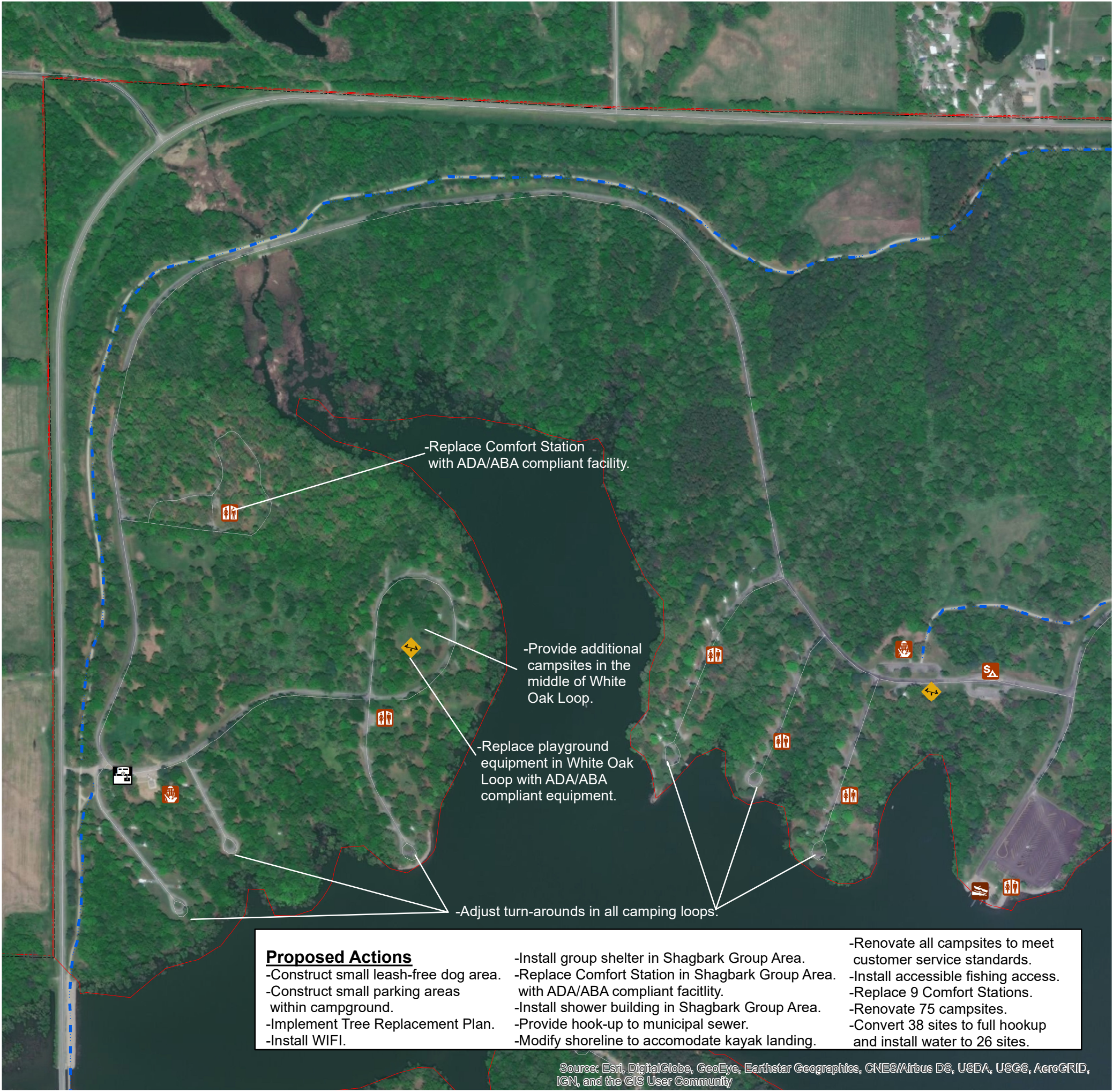
- Restroom (5)
- Sanitary Dump Station (1)
- Playground (2)
- Rend Lake Bike Trail (1)
- Primary Boat Ramp (1)
- Recreation Area (1)
- Shower (2)
- Boundary Line (1)
- Feebooth (1)



US Army Corps of Engineers
St. Louis District

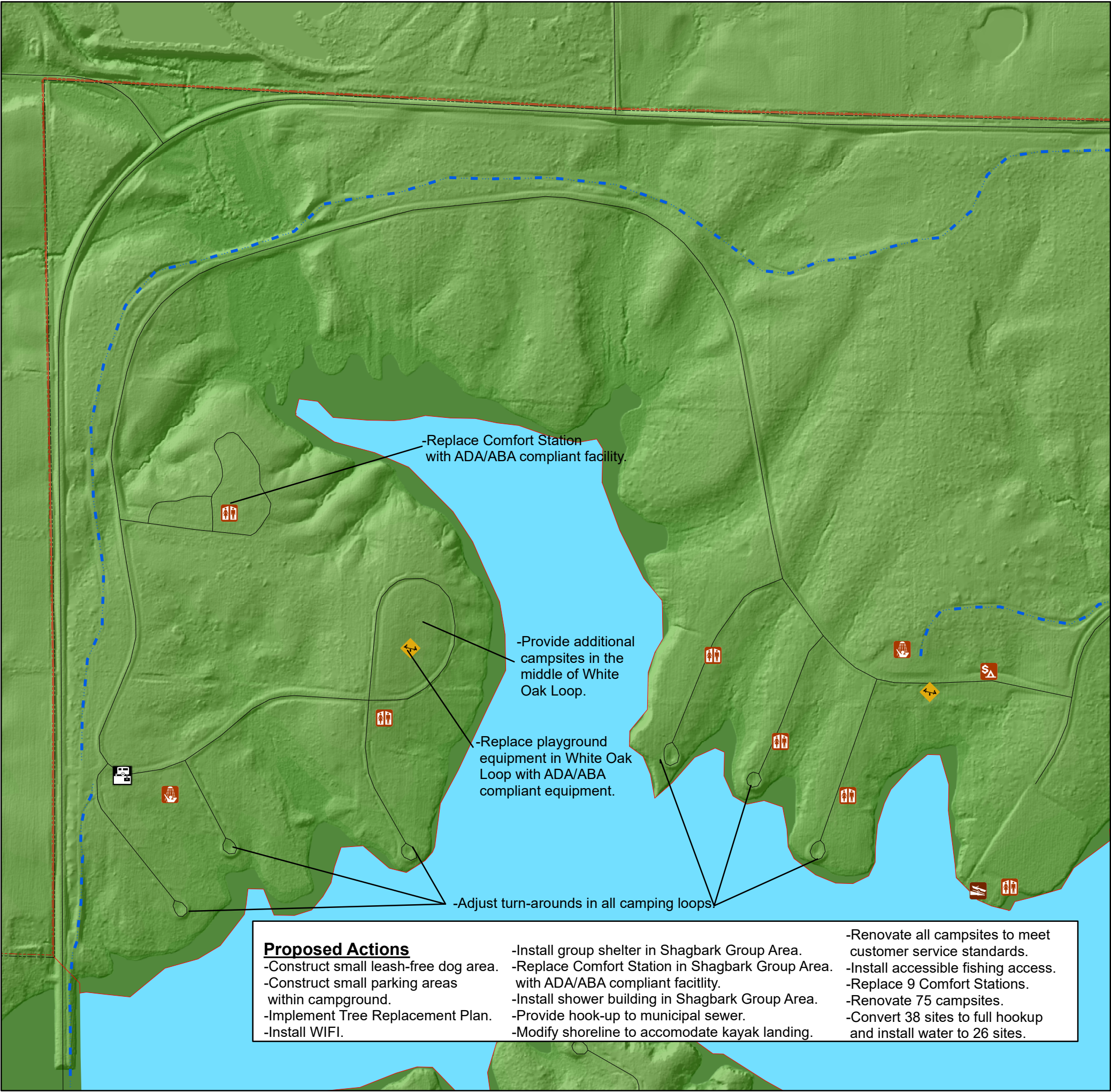
**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
NORTH SANDUSKY
CAMPGROUND**
Plate 12-A

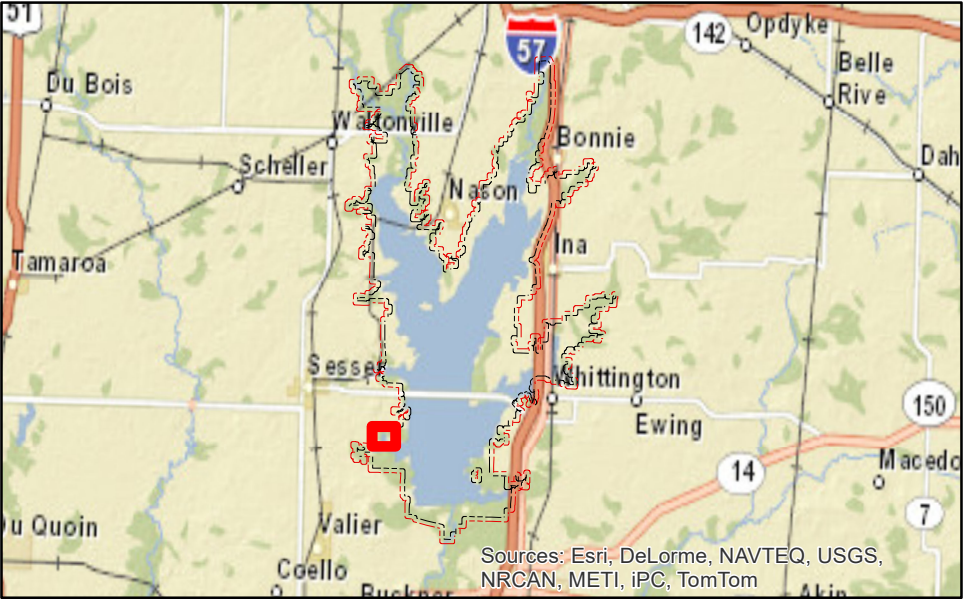


- Proposed Actions**
 - Construct small leash-free dog area.
 - Construct small parking areas within campground.
 - Implement Tree Replacement Plan.
 - Install WIFI.
- Install group shelter in Shagbark Group Area.
 - Replace Comfort Station in Shagbark Group Area with ADA/ABA compliant facility.
 - Install shower building in Shagbark Group Area.
 - Provide hook-up to municipal sewer.
 - Modify shoreline to accomodate kayak landing.
- Renovate all campsites to meet customer service standards.
 - Install accessible fishing access.
 - Replace 9 Comfort Stations.
 - Renovate 75 campsites.
 - Convert 38 sites to full hookup and install water to 26 sites.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Vicinity Map



- Restroom (5)
- Sanitary Dump Station (1)
- Playground (2)
- Rend Lake Bike Trail (1)
- Primary Boat Ramp (1)
- Recreation Area (1)
- Shower (2)
- Boundary Line (1)
- Feebooth (1)



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St. Louis District

**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
NORTH SANDUSKY
CAMPGROUND**

Plate 12-B

Vicinity Map



Restroom (vault) (1)



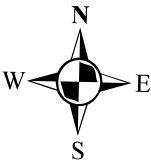
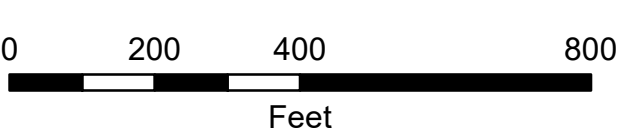
Primary Boat Ramp (1)



Recreation Area (1)



Boundary Line (1)



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REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018

Recreation Area:
**JACKIE BRANCH
RECREATION AREA**

Plate 13-A



Proposed Actions

- Construct Fish Cleaning Station.
- Install Accessible Fishing area.
- Relocate and Replace Boat Ramp.
- Modify shoreline to accomodate Kayak Trail.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





Proposed Actions


- Install Fish Cleaning Station.
- Install Accessible Fishing area.
- Relocate Boat Ramp.
- Modify shoreline to accomodate Kayak Trail.

Vicinity Map

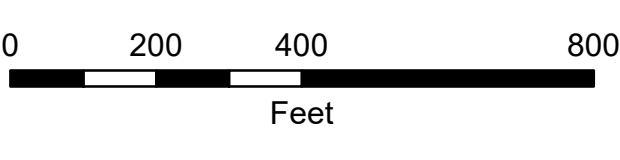



 Restroom (vault) (1)

 Primary Boat Ramp (1)

 Recreation Area (1)

 Boundary Line (1)



 <p>US Army Corps of Engineers® St. Louis District</p>	<p>REND LAKE BIG MUDDY RIVER MASTER PLAN DECEMBER 2018</p>
<p>Recreation Area: JACKIE BRANCH RECREATION AREA Plate 13-B</p>	

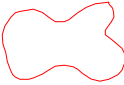
Vicinity Map



Restroom (vault) (1)



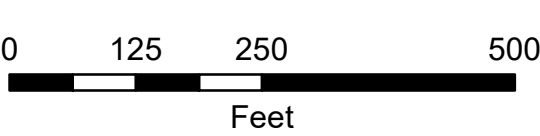
Primary Boat Ramp (1)



Recreation Area (1)



Boundary Line (1)



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**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
TURNIP PATCH
RECREATION AREA**


Plate 14-A






Vicinity Map

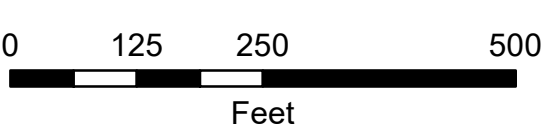


 Restroom (vault) (1)

 Primary Boat Ramp (1)

 Recreation Area (1)

 Boundary Line (1)



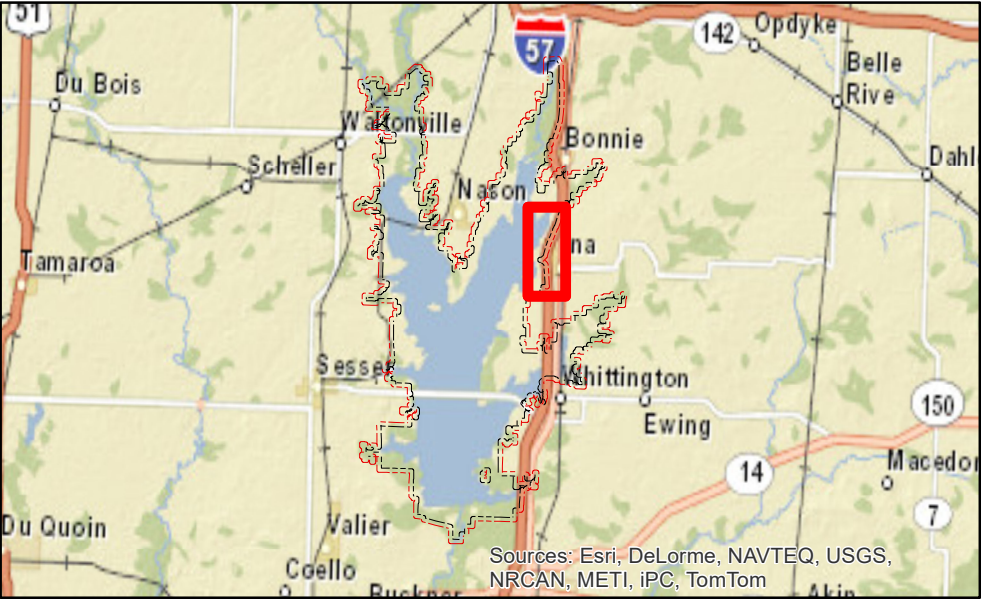
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St. Louis District

REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018

Recreation Area:
**TURNIP PATCH
RECREATION AREA**

Plate 14-B

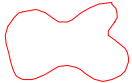
Vicinity Map



Primary Boat Ramp (2)



Parking Area (3)



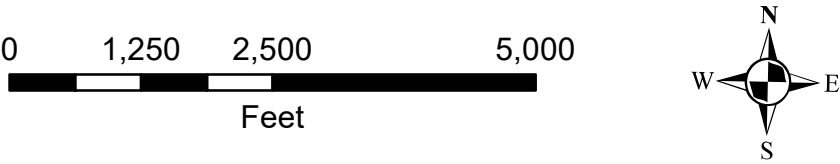
Recreation Area (1)




Ina Multiple Resource Area (2)



Boundary Line (1)



 US Army Corps of Engineers St. Louis District	REND LAKE BIG MUDDY RIVER MASTER PLAN DECEMBER 2018
Recreation Area: INA RECREATION AREA Plate 15-A	

Proposed Actions

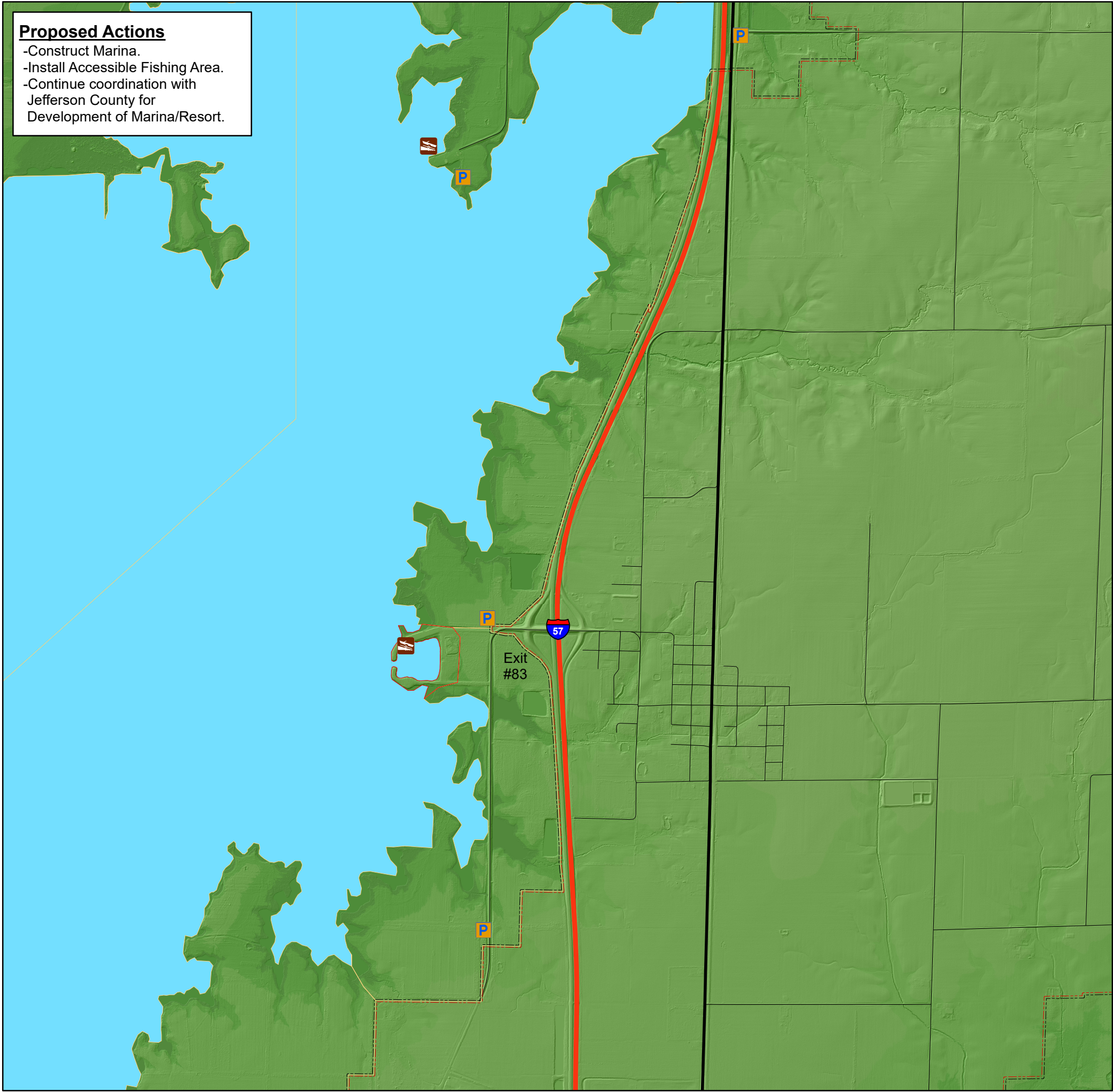
- Construct Marina.
- Install Accessible Fishing Area.
- Continue coordination with Jefferson County for Development of Marina/Resort.



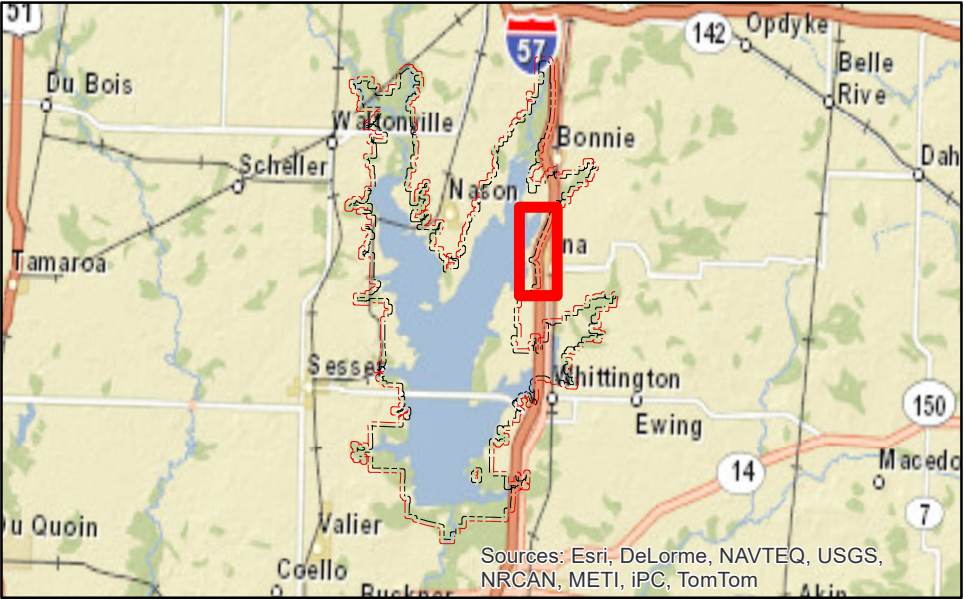
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community







Proposed Actions

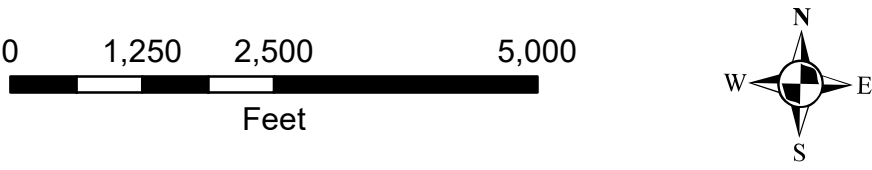
- Construct Marina.
- Install Accessible Fishing Area.
- Continue coordination with Jefferson County for Development of Marina/Resort.




Vicinity Map












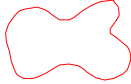

-  Primary Boat Ramp (2)
-  Parking Area (3)
-  Outgrant (1)
-  Recreation Area (1)
-  Ina Multiple Resource Area (2)
-  Boundary Line (1)



 US Army Corps of Engineers® St. Louis District	REND LAKE BIG MUDDY RIVER MASTER PLAN DECEMBER 2018
Recreation Area: INA RECREATION AREA Plate 15-B	

Vicinity Map



- | | | | |
|---|-----------------------|---|---------------------------|
|  | Restroom (1) |  | Shower (2) |
|  | Restroom (vault) (2) |  | Feebooth (1) |
|  | Playground (3) |  | Sanitary Dump Station (1) |
|  | Group Shelter (1) |  | Outgrant (2) |
|  | Primary Boat Ramp (1) |  | Recreation Area (1) |
| | |  | Boundary Line (1) |



 US Army Corps of Engineers® St. Louis District	REND LAKE BIG MUDDY RIVER MASTER PLAN DECEMBER 2018
Recreation Area: GUN CREEK DAY USE AREA and CAMPGROUND Plate 16-A	

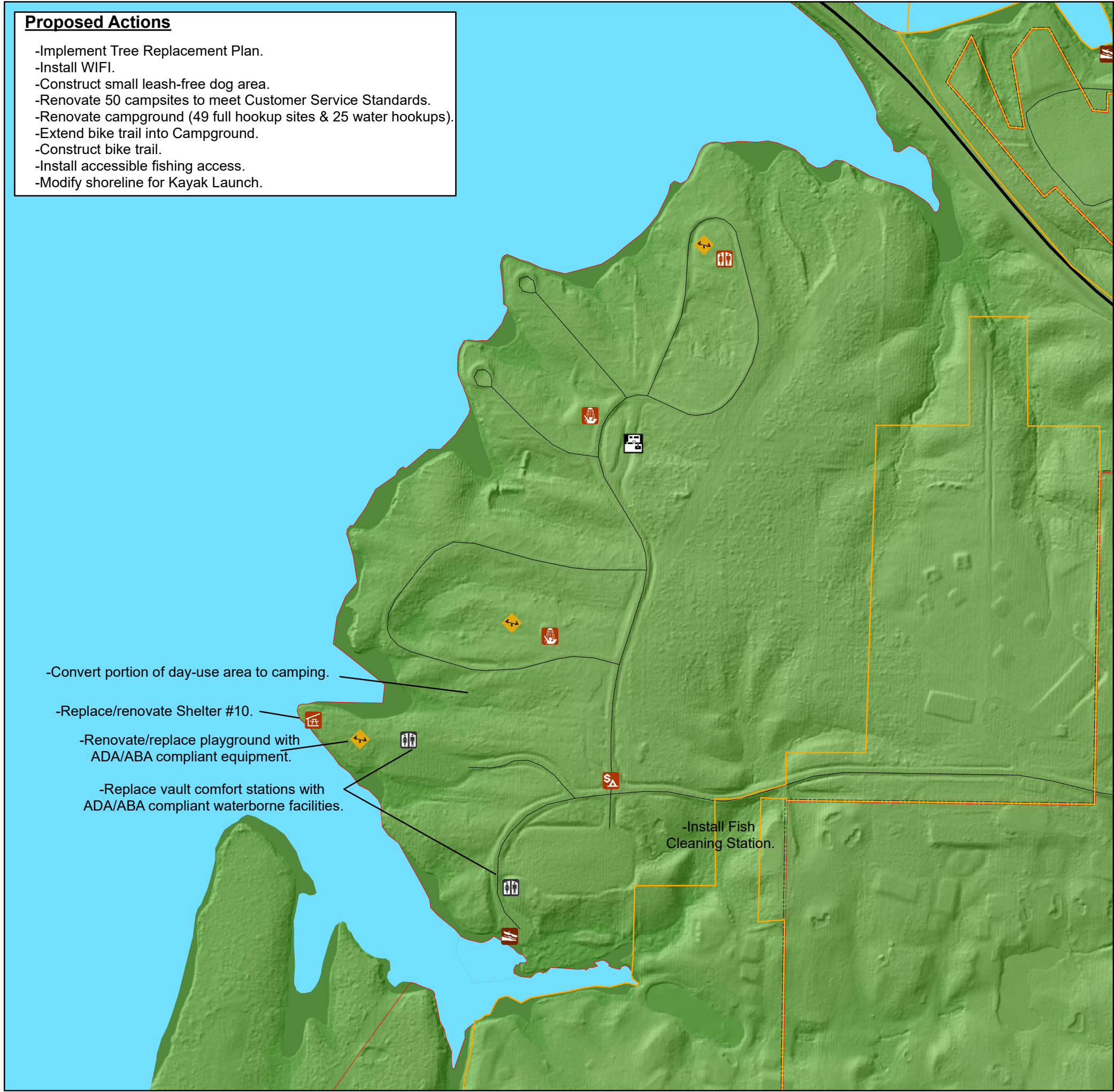
Proposed Actions

- Implement Tree Replacement Plan.
- Install WIFI.
- Construct small leash-free dog area.
- Renovate 50 campsites to meet Customer Service Standards.
- Renovate campground (49 full hookup sites & 25 water hookups).
- Extend bike trail into Campground.
- Construct bike trail.
- Install accessible fishing access.
- Modify shoreline for Kayak Launch.

- Convert portion of day-use area to camping.
- Replace/renovate Shelter #10.
- Renovate/replace playground with ADA/ABA compliant equipment.
- Replace vault comfort stations with ADA/ABA compliant waterborne facilities.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Proposed Actions**
- Implement Tree Replacement Plan.
 - Install WIFI.
 - Construct small leash-free dog area.
 - Renovate 50 campsites to meet Customer Service Standards.
 - Renovate campground (49 full hookup sites & 25 water hookups).
 - Extend bike trail into Campground.
 - Construct bike trail.
 - Install accessible fishing access.
 - Modify shoreline for Kayak Launch.



Vicinity Map



Restroom (1)



Shower (2)



Restroom (vault) (2)



Feebooth (1)



Playground (3)



Sanitary Dump Station (1)



Group Shelter (1)



Outgrant (2)



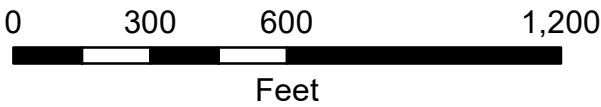
Primary Boat Ramp (1)



Recreation Area (1)



Boundary Line (1)



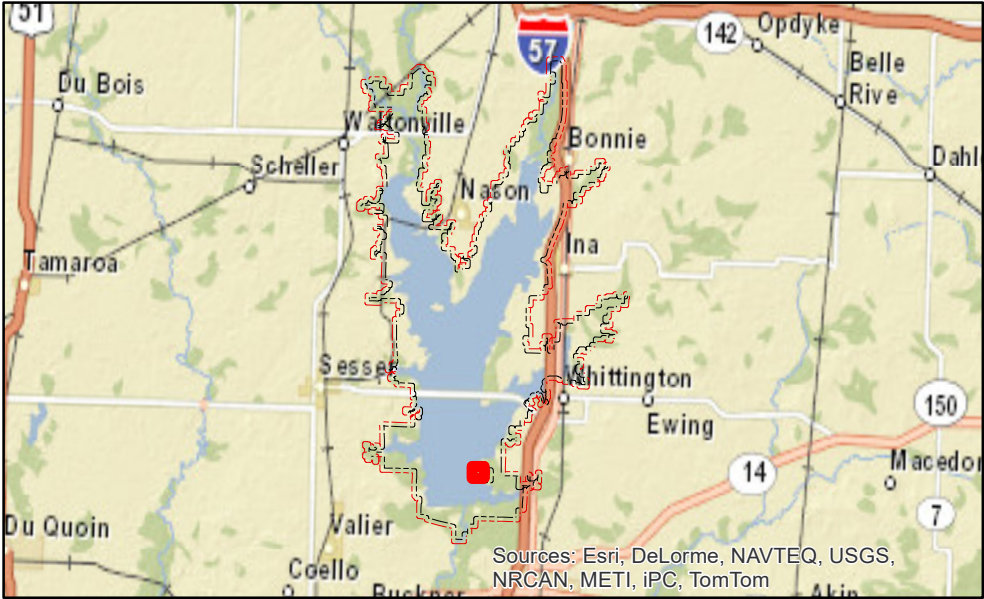
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St. Louis District

**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
GUN CREEK DAY USE AREA
and CAMPGROUND**

Plate 16-B

Vicinity Map



- Restroom (1)
- Group Shelter (2)
- Restroom (vault) (1)
- Primary Boat Ramp (1)
- Playground (1)
- Shower (1)
- Playcourt (1)
- North Marcum Bike Trail (1)
- Covered Bench (4)
- Recreation Area (1)
- Picnic Area (2)
- Boundary Line (1)



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REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018

Recreation Area:
**NORTH MARCUM
DAY USE**
Plate 17-A

Proposed Actions

- Install Accessible Fishing Area.
- Upgrade water service to the area.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Proposed Actions

- Install Accessible Fishing Area.
- Upgrade water service to the area.

-Remove basketball court.

-Relocate Shelter #7 and renovate.

-Replace vault toilet at boat ramp with waterborne facility

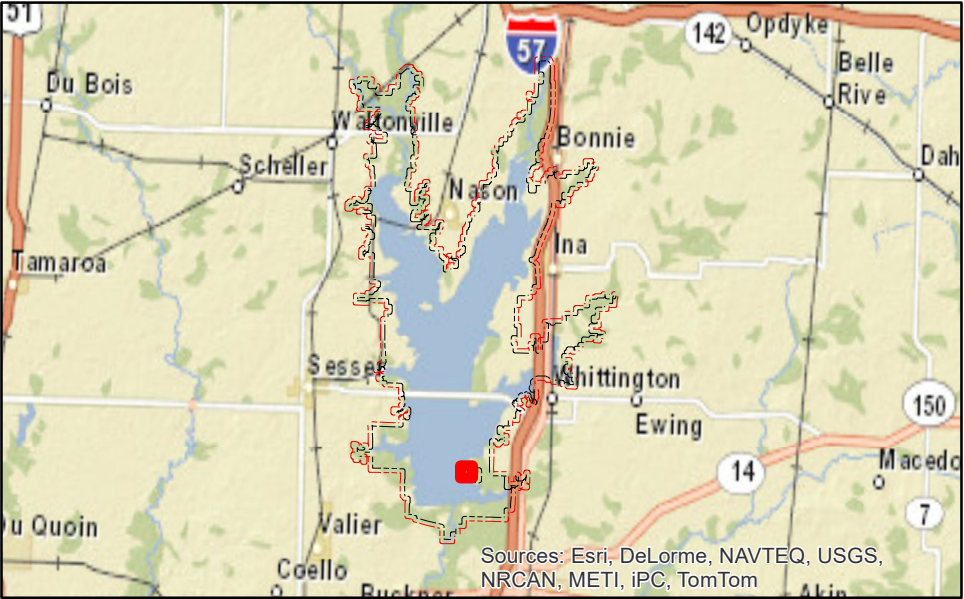
-Reduce the size of the Boat Ramp parking lot.

-Remove Shower house and replace with ADA/ABA compliant Comfort Station.

-Remove beach area by planting grass over most of the sand area. A small strip of sand will be left along the shoreline for boat-in use and the area converted to boat-in use only.

-Modify breakwater or add additional breakwater on opposite side of cove.

Vicinity Map



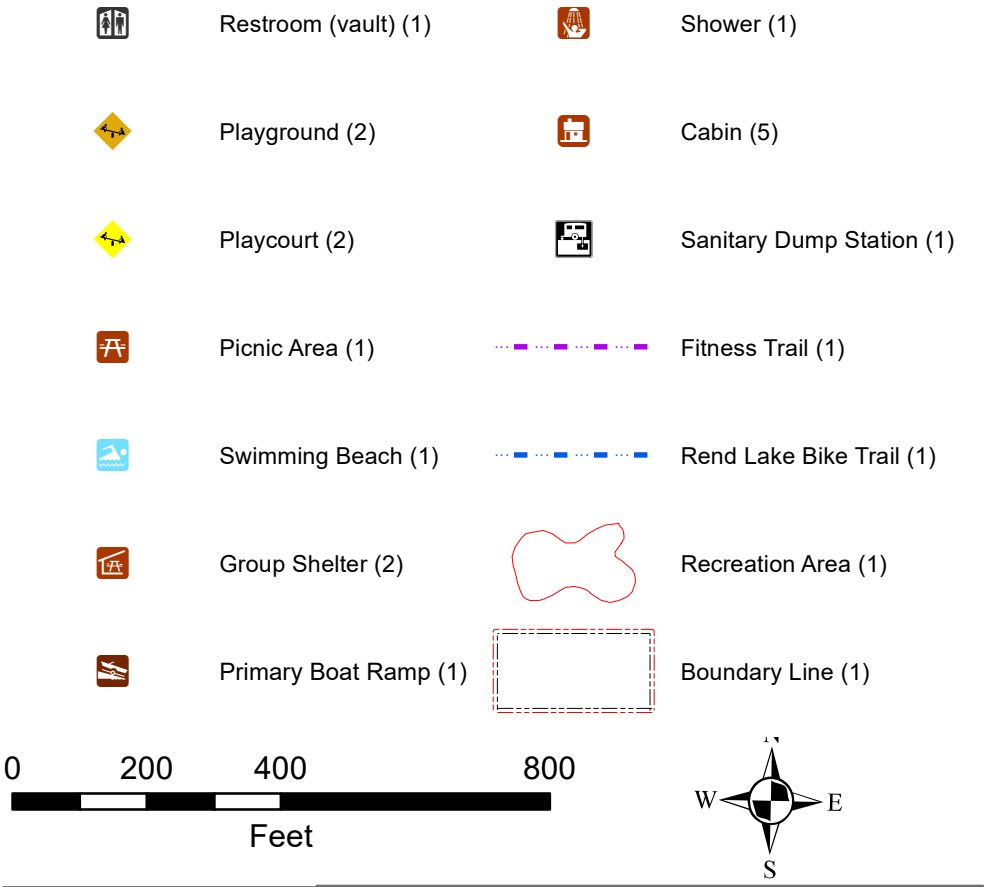
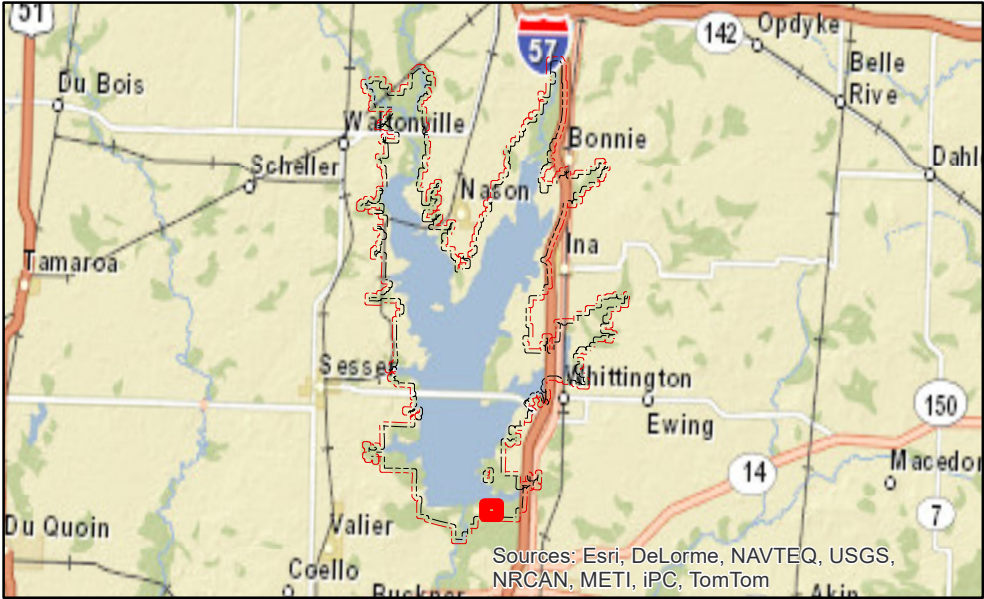
- | | | | |
|--|----------------------|--|-----------------------------|
| | Restroom (1) | | Group Shelter (2) |
| | Restroom (vault) (1) | | Primary Boat Ramp (1) |
| | Playground (1) | | Shower (1) |
| | Playcourt (1) | | North Marcum Bike Trail (1) |
| | Covered Bench (4) | | Recreation Area (1) |
| | Picnic Area (2) | | Boundary Line (1) |



**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
NORTH MARCUM
DAY USE**
Plate 17-B

Vicinity Map

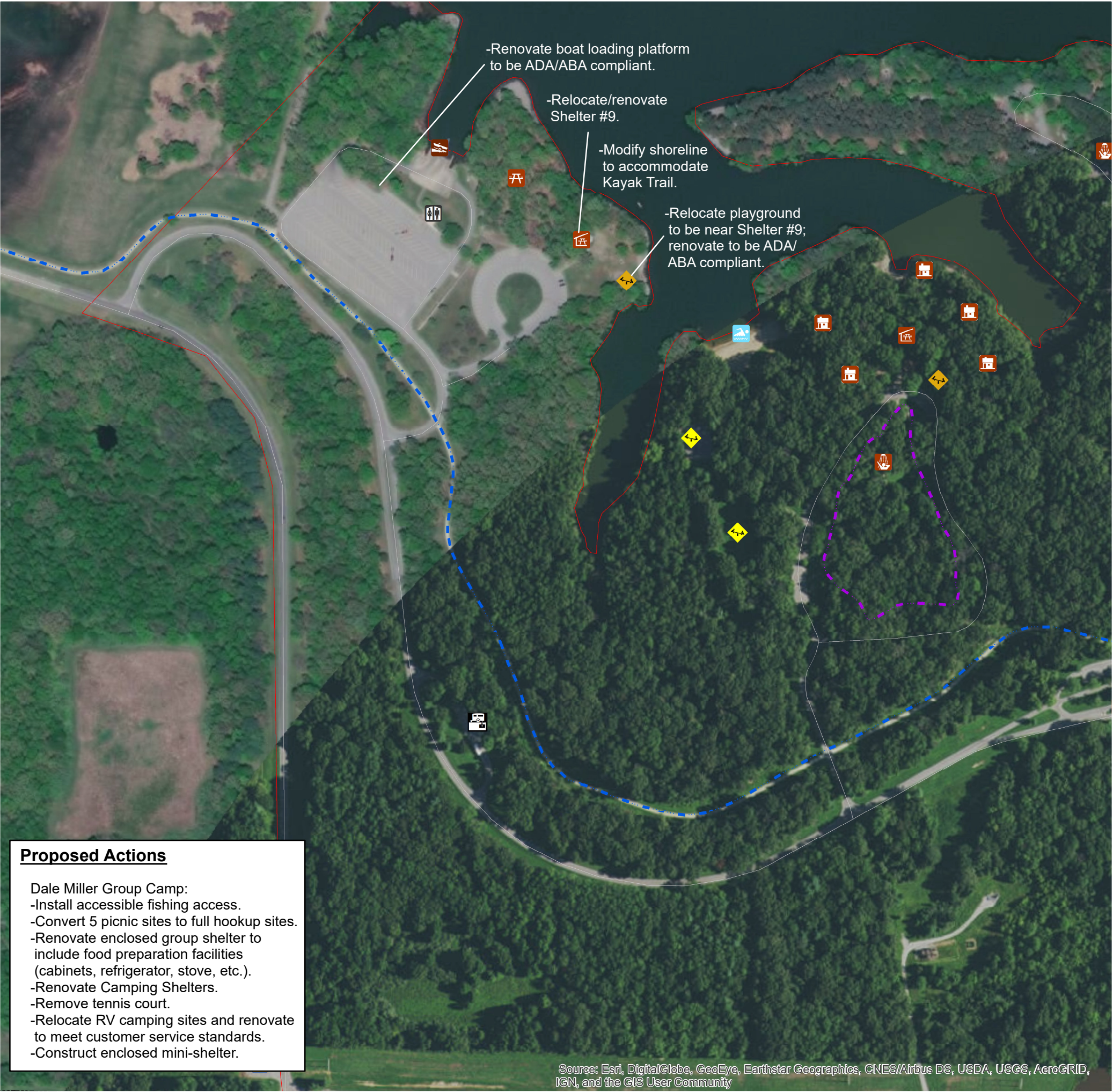


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St. Louis District

**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
SOUTH MARCUM DAY USE
and DALE MILLER GROUP CAMP**

Plate 18-A

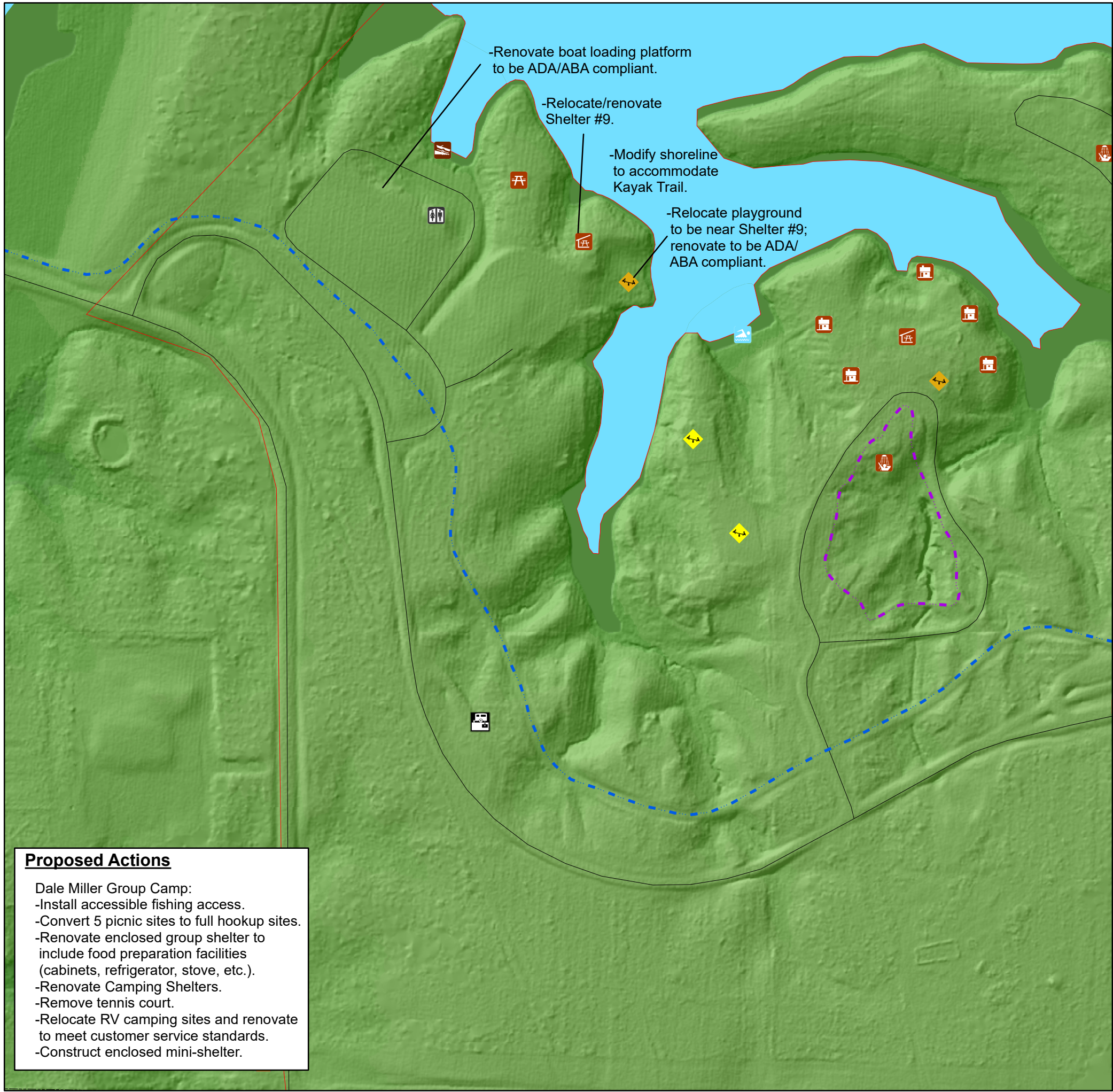


Proposed Actions

Dale Miller Group Camp:

- Install accessible fishing access.
- Convert 5 picnic sites to full hookup sites.
- Renovate enclosed group shelter to include food preparation facilities (cabinets, refrigerator, stove, etc.).
- Renovate Camping Shelters.
- Remove tennis court.
- Relocate RV camping sites and renovate to meet customer service standards.
- Construct enclosed mini-shelter.

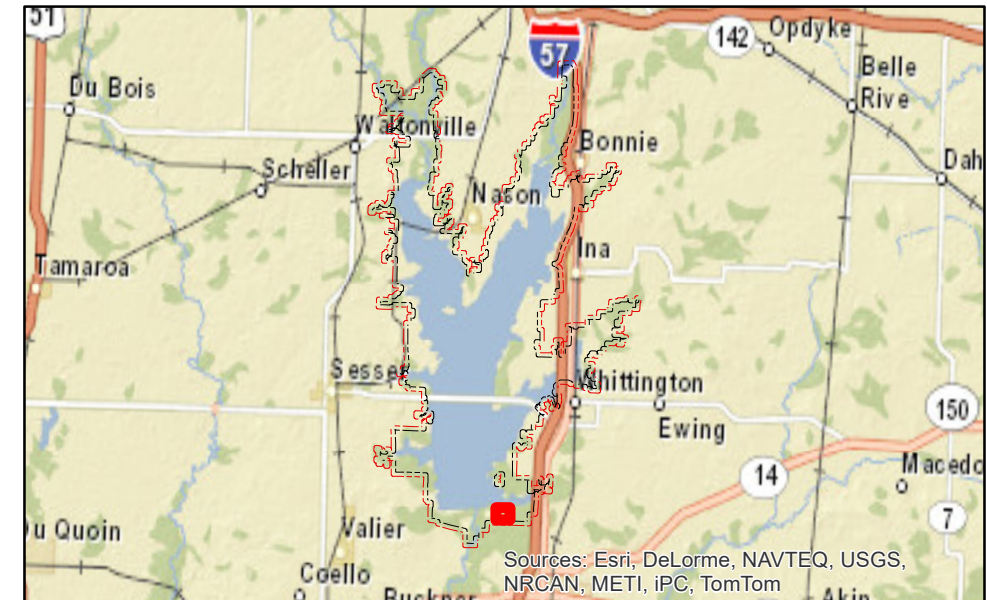
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Proposed Actions

- Dale Miller Group Camp:
- Install accessible fishing access.
 - Convert 5 picnic sites to full hookup sites.
 - Renovate enclosed group shelter to include food preparation facilities (cabinets, refrigerator, stove, etc.).
 - Renovate Camping Shelters.
 - Remove tennis court.
 - Relocate RV camping sites and renovate to meet customer service standards.
 - Construct enclosed mini-shelter.

Vicinity Map



Restroom (vault) (1)



Shower (1)



Playground (2)



Cabin (5)



Playcourt (2)



Sanitary Dump Station (1)



Picnic Area (1)



Fitness Trail (1)



Swimming Beach (1)



Rend Lake Bike Trail (1)



Group Shelter (2)



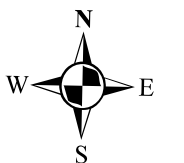
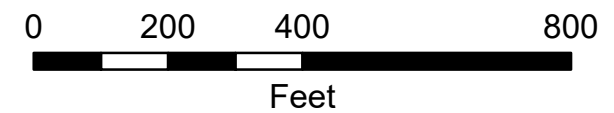
Recreation Area (1)



Primary Boat Ramp (1)



Boundary Line (1)



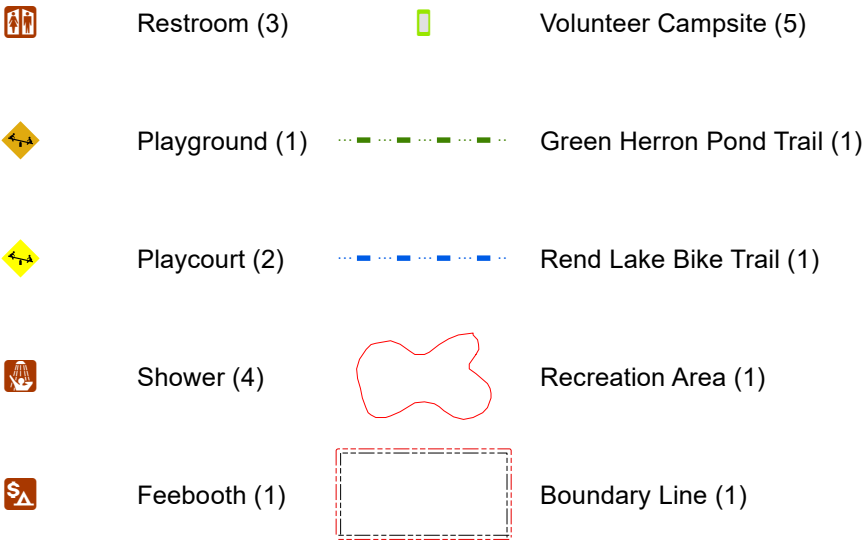
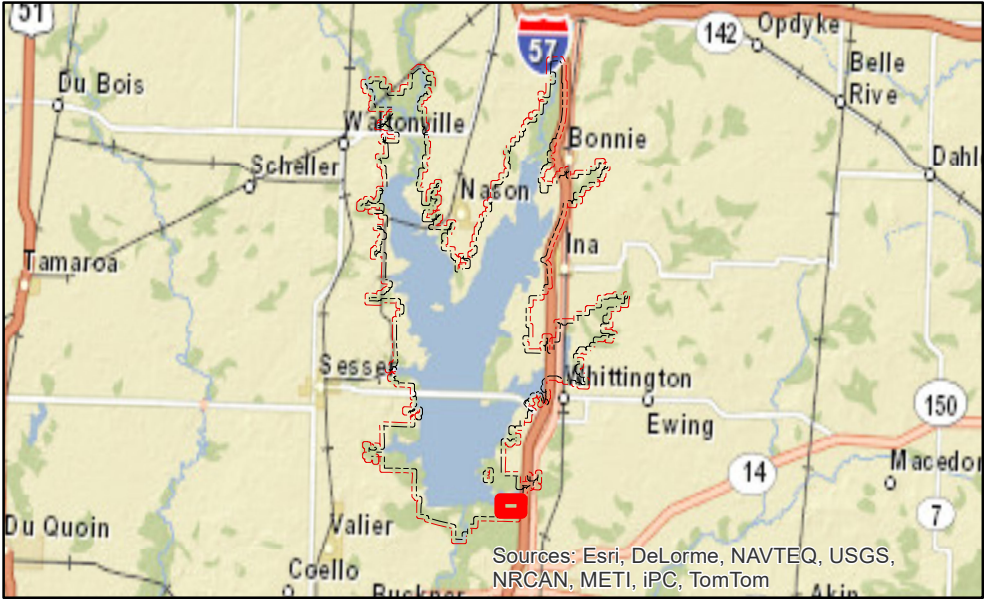
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St. Louis District


**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
SOUTH MARCUM DAY USE
and DALE MILLER GROUP CAMP**

Plate 18-B

Vicinity Map



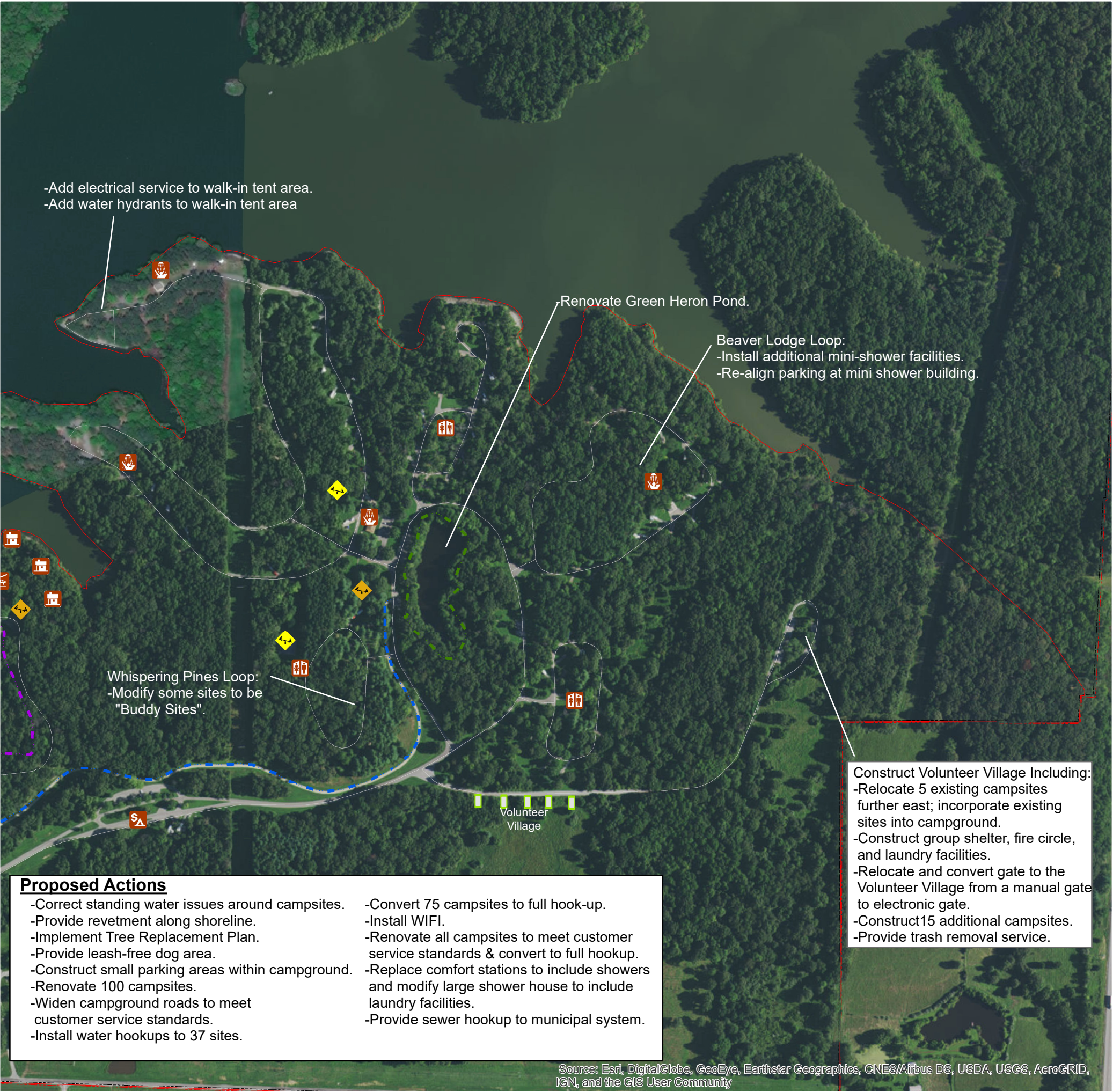


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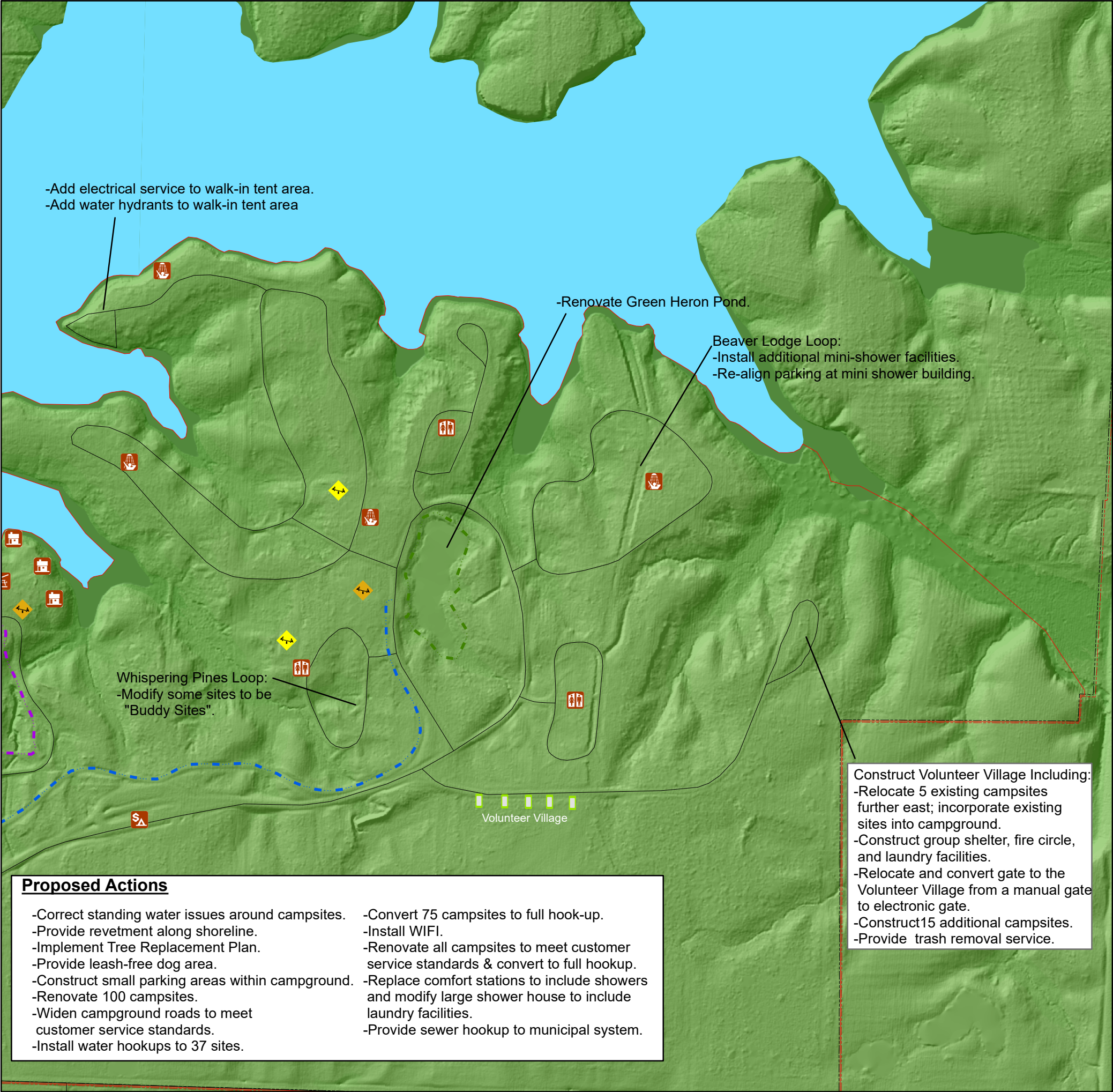
**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
SOUTH MARCUM
CAMPGROUND**

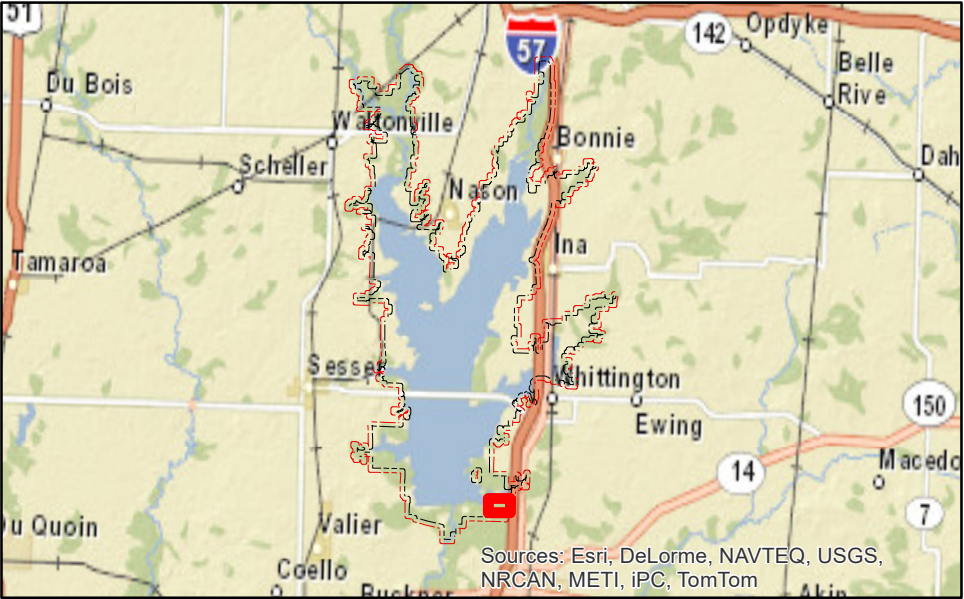
Plate 19-A



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community




Vicinity Map



- Restroom (3)
- Playground (1)
- Playcourt (2)
- Shower (4)
- Feebooth (1)
- Volunteer Campsite (5)
- Green Herron Pond Trail (1)
- Rend Lake Bike Trail (1)
- Recreation Area (1)
- Boundary Line (1)





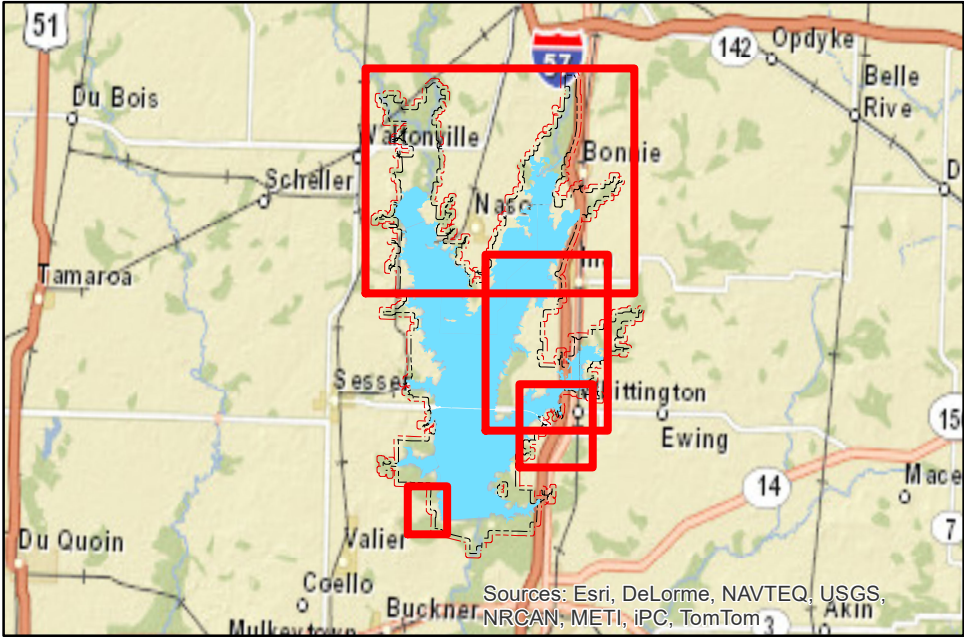
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**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Recreation Area:
SOUTH MARCUM
CAMPGROUND**

Plate 19-B

Vicinity Map



Name	Agency	Acres
Wayne Fitzgerald State Park Office	IDNR	109
Wayne Fitzgerald State Park	IDNR	2513
Rend Lake Conservancy District	RLCD	161
Big Muddy WMA	IDNR	4093
Casey Fork WMA	IDNR	2608
Rend Lake Wildlife Refuge (Lands and Waters)	IDNR	3991
Rend Lake Marina	Concession	40
Total Outgrant Acres		13515

- Wayne Fitzgerald St Pk Office
-
- Big Muddy Wildlife Mgt. Area

Wayne Fitzgerald State ParkRLCD Outgrant AreasGun Creek ComplexGun Creek Outgrant WatersInterstateHighway

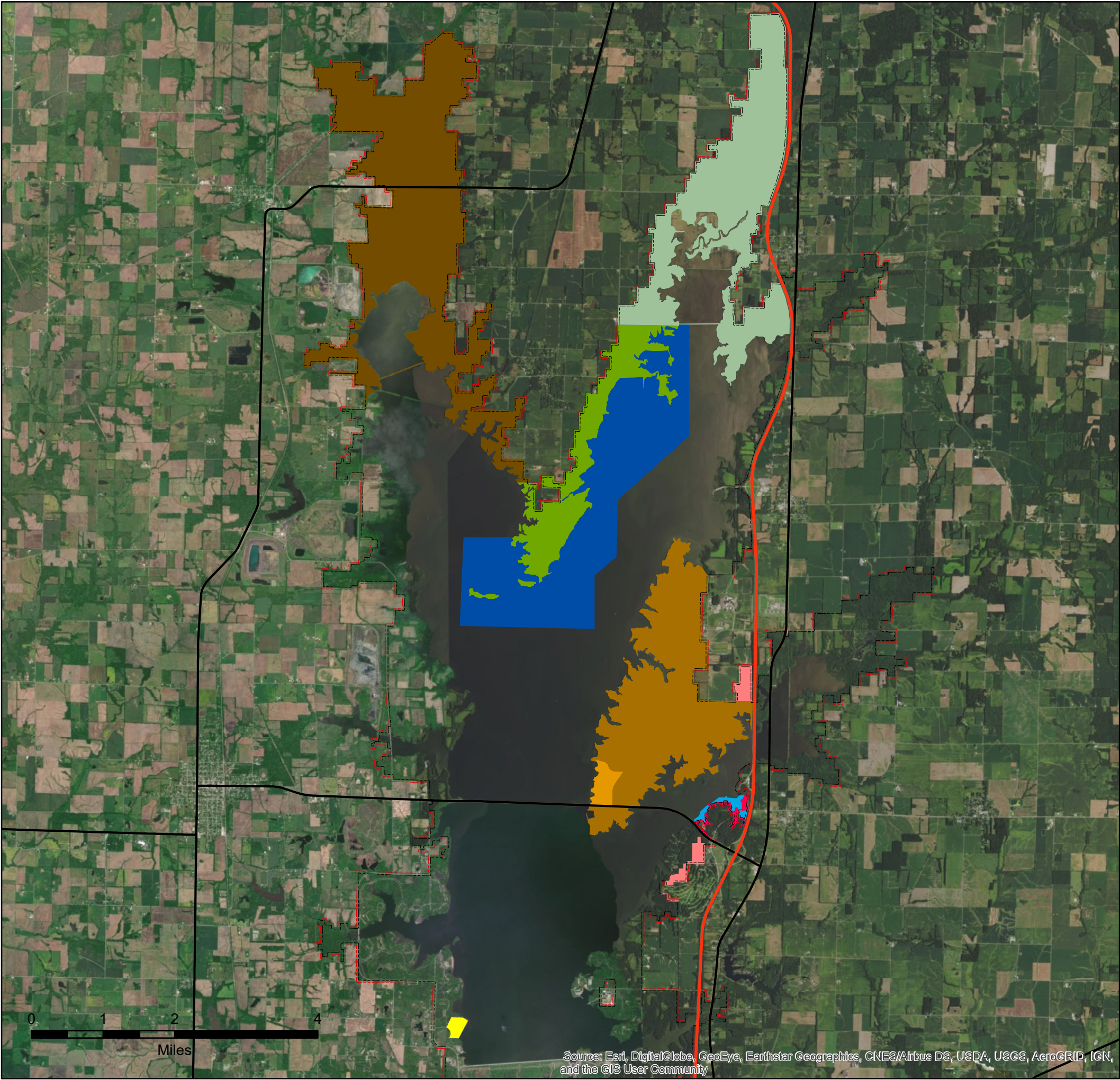
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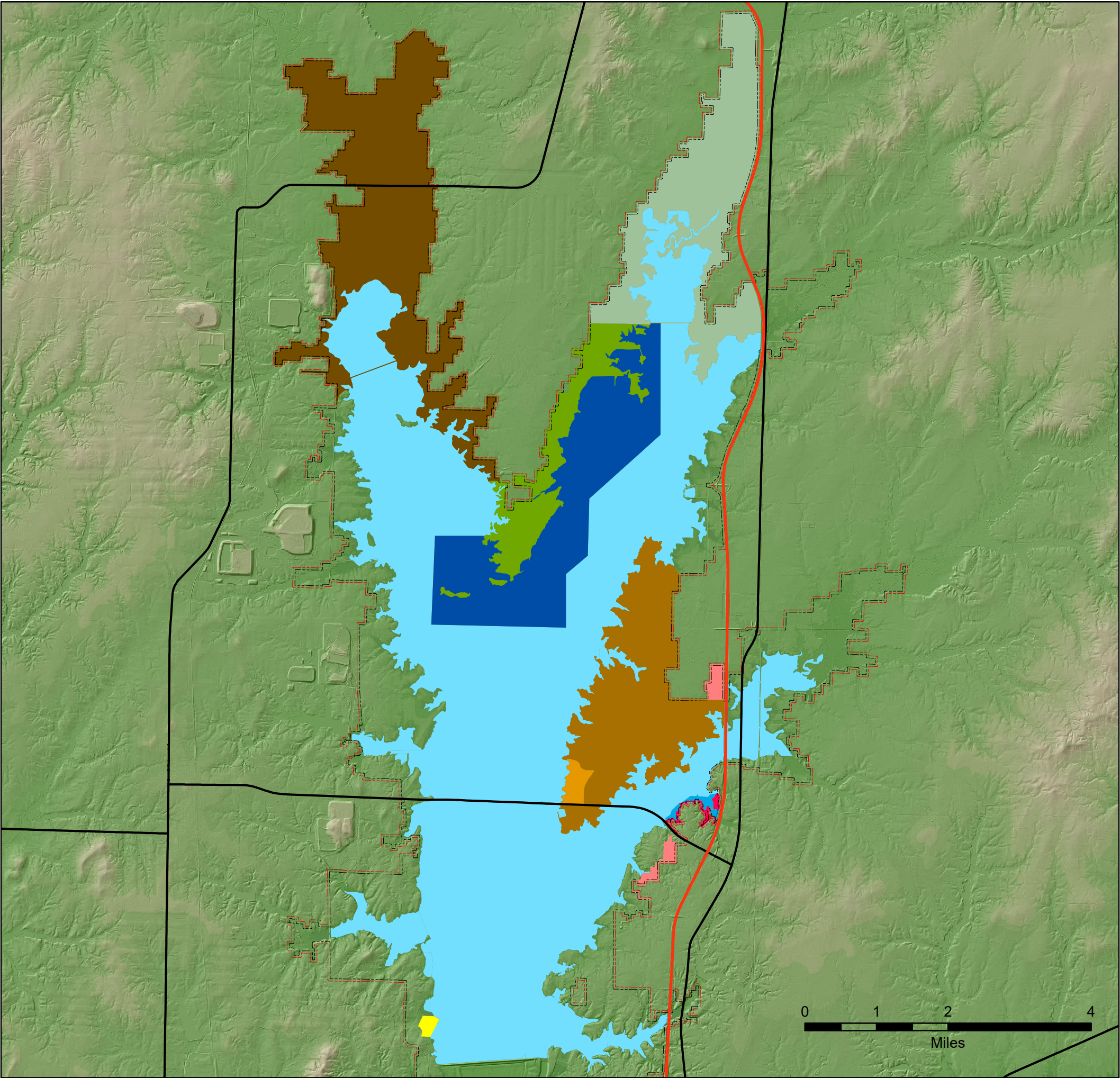
REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018



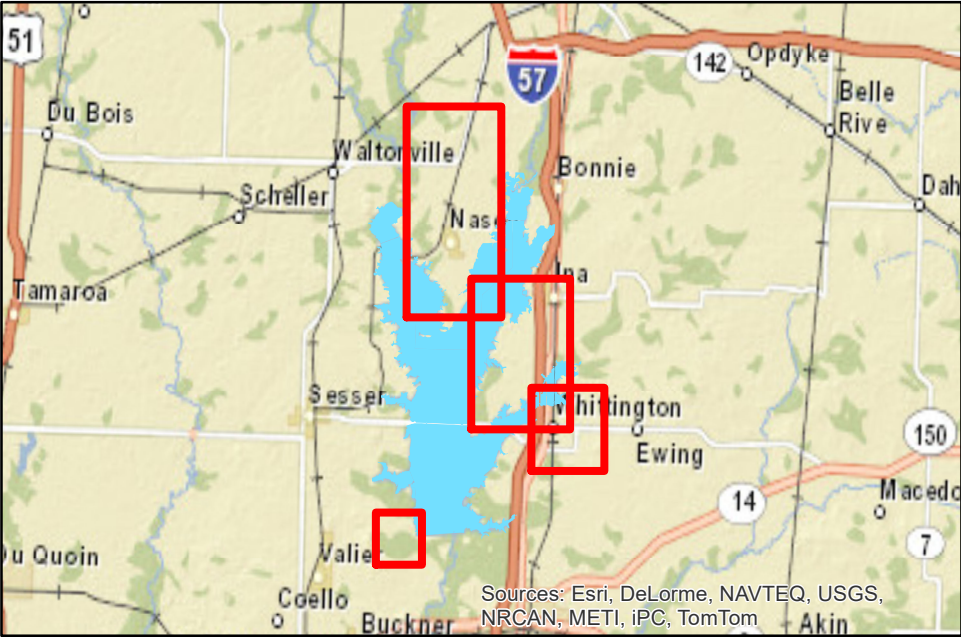
Rend Lake
Outgrant Area Overview

Plate 20-A





Vicinity Map



Name	Agency	Acres
Wayne Fitzgerrell State Park Office	IDNR	109
Wayne Fitgerrell State Park	IDNR	2513
Rend Lake Conservancy District	RLCD	161
Big Muddy WMA	IDNR	4093
Casey Fork WMA	IDNR	2608
Rend Lake Wildlife Refuge(Lands and Waters)	IDNR	3991
Rend Lake Marina	Concession	40
Total Outgrant Acres		13515

- Wayne Fitgerrell St Pk Office
- Wayne Fitgerrell State Park
- RLCD Outgrant Areas
- Gun Creek Complex
- Gun Creek Outgrant Waters
- Interstate
- Highway
- Big Muddy Wildlife Mgt. Area
- Casey Fork Wildlife Mgt. Area
- Rend Lake Wildlife Refuge
- Wildlife Refuge Waters
- Rend Lake Marina
- Boundary Line



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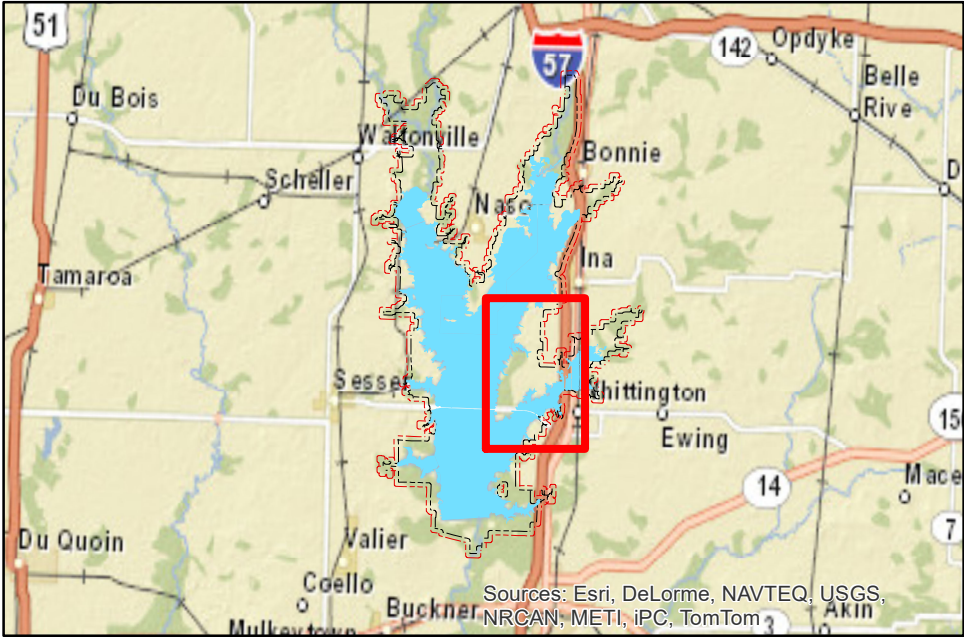
REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018



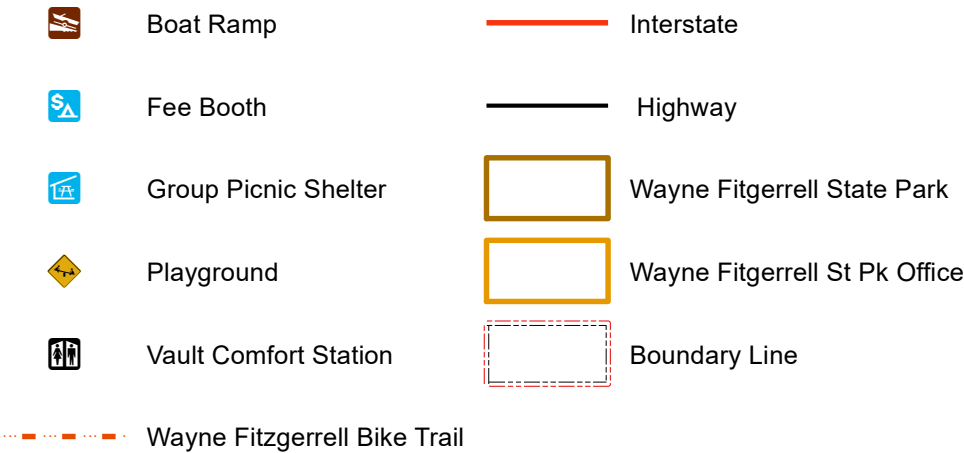
Rend Lake
Outgrant Area Overview


Plate 20-B

Vicinity Map



Name	Agency	Acres
Wayne Fitzgerald State Park Office	IDNR	109
Wayne Fitzgerald State Park	IDNR	2513
Total State Park Outgrant Acres		2622





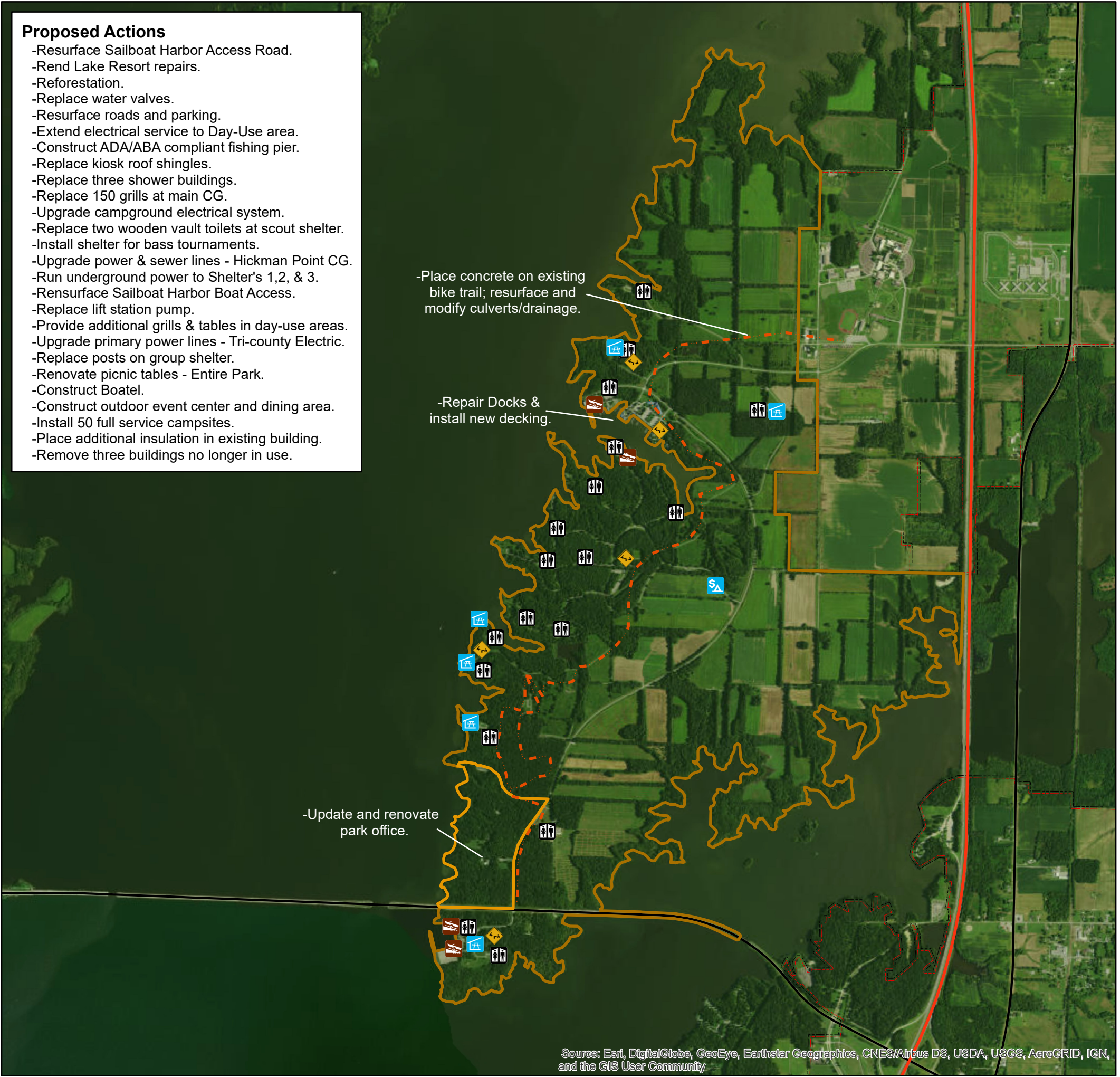
US Army Corps of Engineers
St. Louis District

**REND LAKE
BIG MUDDY RIVER
MASTER PLAN
DECEMBER 2018**

**Wayne Fitzgerald
State Park**
Plate 21-A

Proposed Actions

- Resurface Sailboat Harbor Access Road.
- Rend Lake Resort repairs.
- Reforestation.
- Replace water valves.
- Resurface roads and parking.
- Extend electrical service to Day-Use area.
- Construct ADA/ABA compliant fishing pier.
- Replace kiosk roof shingles.
- Replace three shower buildings.
- Replace 150 grills at main CG.
- Upgrade campground electrical system.
- Replace two wooden vault toilets at scout shelter.
- Install shelter for bass tournaments.
- Upgrade power & sewer lines - Hickman Point CG.
- Run underground power to Shelter's 1,2, & 3.
- Rensurface Sailboat Harbor Boat Access.
- Replace lift station pump.
- Provide additional grills & tables in day-use areas.
- Upgrade primary power lines - Tri-county Electric.
- Replace posts on group shelter.
- Renovate picnic tables - Entire Park.
- Construct Boatel.
- Construct outdoor event center and dining area.
- Install 50 full service campsites.
- Place additional insulation in existing building.
- Remove three buildings no longer in use.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Proposed Actions

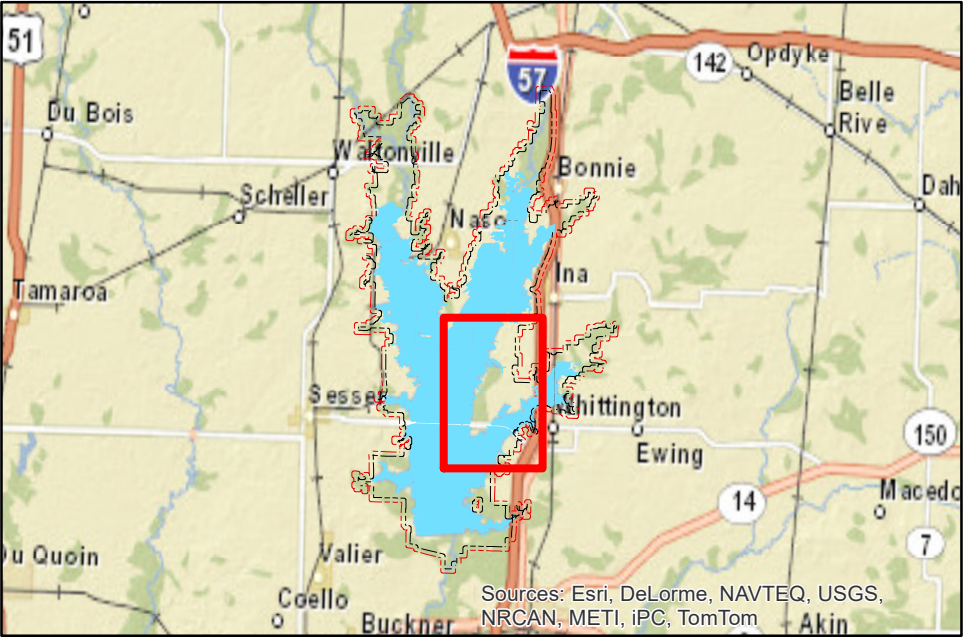
- Resurface Sailboat Harbor Access Road.
- Rend Lake Resort repairs.
- Reforestation.
- Replace water valves.
- Resurface roads and parking.
- Extend electrical service to Day-Use area.
- Construct ADA/ABA compliant fishing pier.
- Replace kiosk roof shingles.
- Replace three shower buildings.
- Replace 150 grills at main CG.
- Upgrade campground electrical system.
- Replace two wooden vault toilets at scout shelter.
- Install shelter for bass tournaments.
- Upgrade power & sewer lines - Hickman Point CG.
- Run underground power to Shelter's 1,2, & 3.
- Rensurface Sailboat Harbor Boat Access.
- Replace lift station pump.
- Provide additional grills & tables in day-use areas.
- Upgrade primary power lines - Tri-county Electric.
- Replace posts on group shelter.
- Renovate picnic tables - Entire Park.
- Construct Boatel.
- Construct outdoor event center and dining area.
- Install 50 full service campsites.
- Place additional insulation in existing building.
- Remove three buildings no longer in use.

-Place concrete on existing bike trail; resurface and modify culverts/drainage.

-Repair Docks & install new decking.

-Update and renovate park office.

Vicinity Map



Name	Agency	Acres
Wayne Fitzgerald State Park Office	IDNR	109
Wayne Fitzgerald State Park	IDNR	2513
Total State Park Outgrant Acres		2622

- Boat Ramp

Fee Booth

Group Picnic Shelter

Playground

Vault Comfort Station

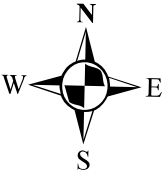
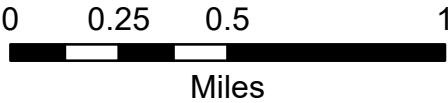
Wayne Fitzgerald Bike Trail
- Interstate

Highway

Wayne Fitzgerald State Park

Wayne Fitzgerald St Pk Office

Boundary Line

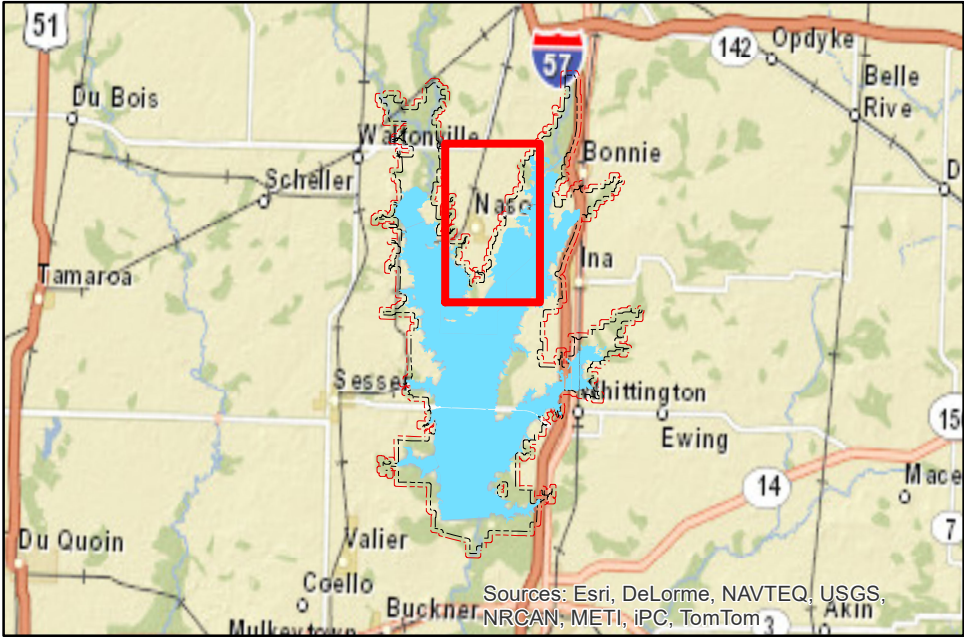


REND LAKE
BIG MUDDY RIVER
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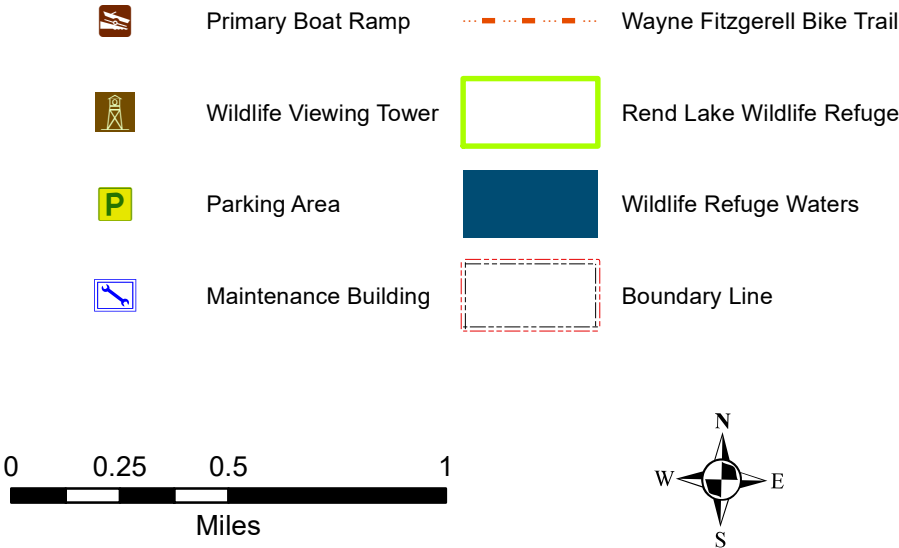
Wayne Fitzgerald
State Park

Plate 21-B

Vicinity Map



Name	Agency	Acres
Rend Lake Wildlife Refuge	IDNR	1109
Rend Lake Wildlife Refuge Waters	IDNR	2882
Total Refuge Lands and Waters		3991

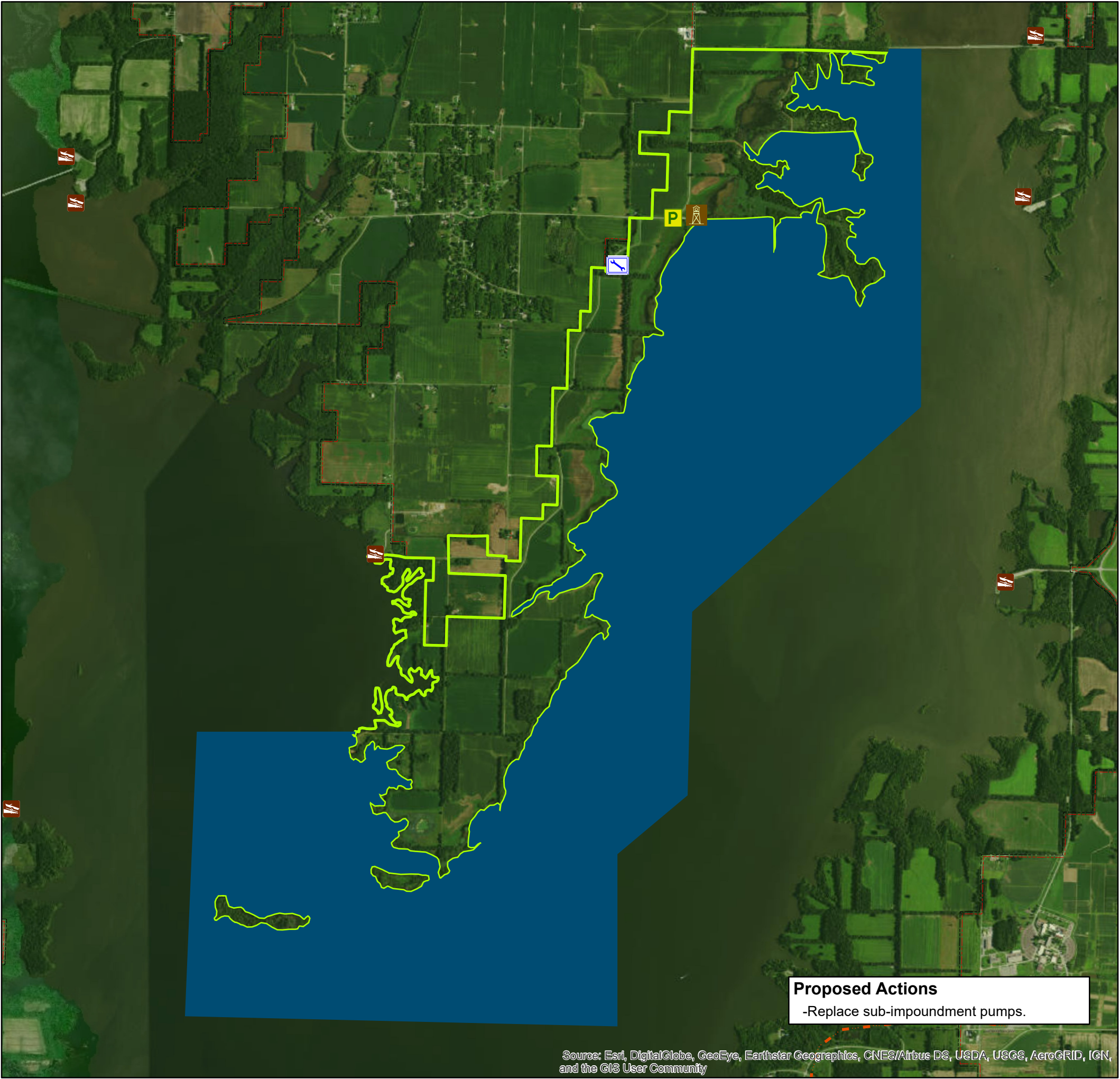




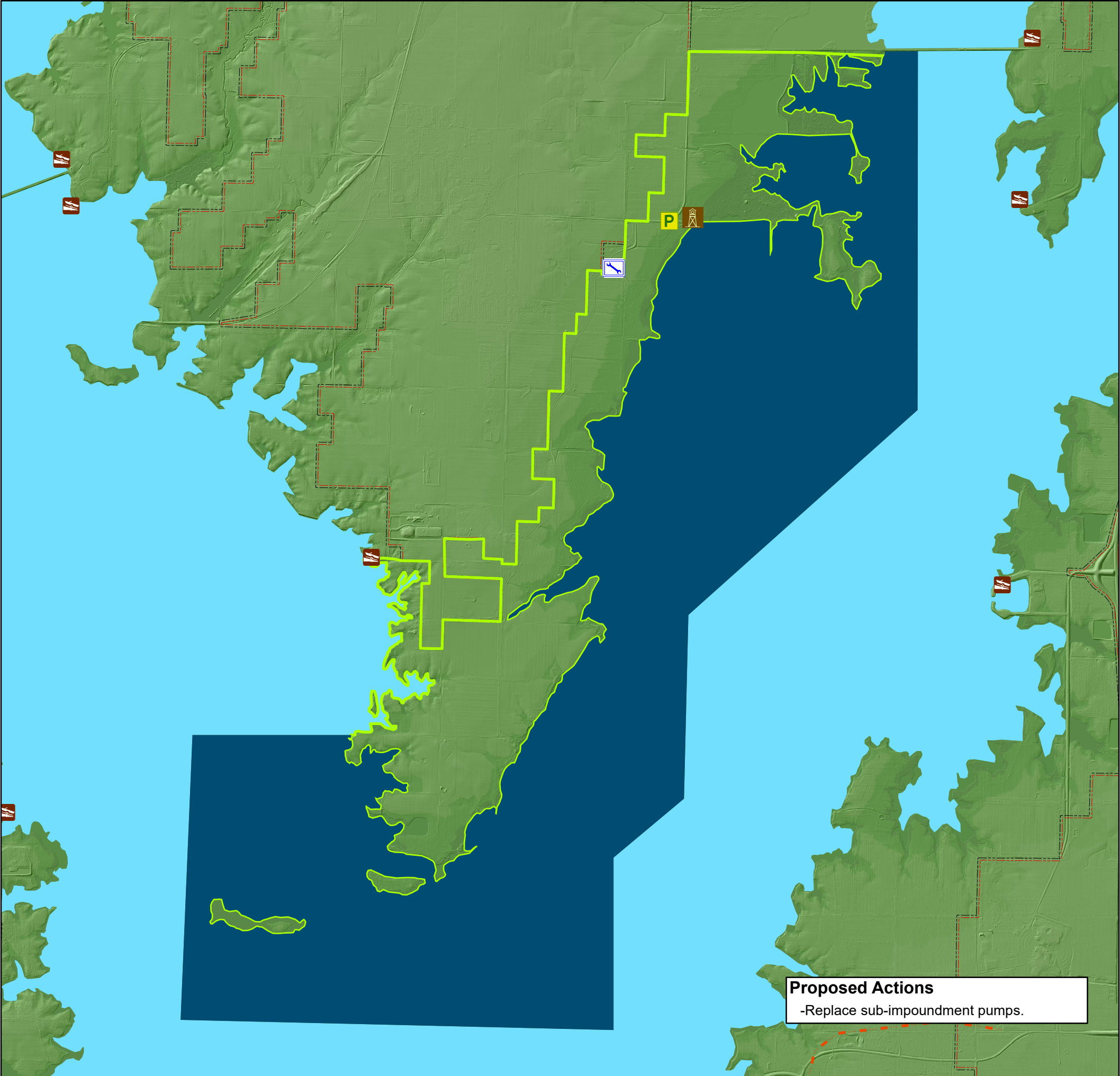
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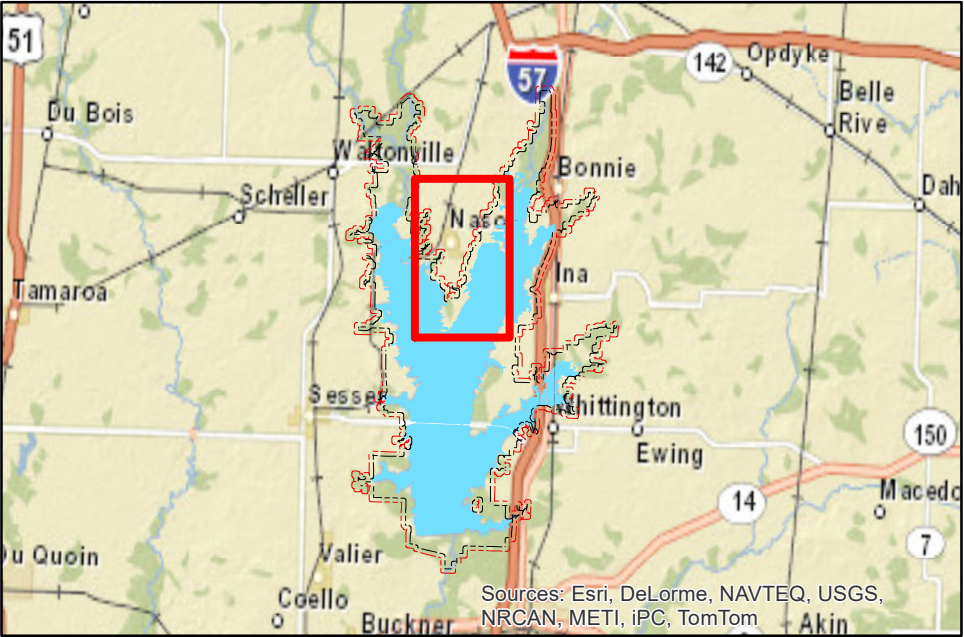
**Rend Lake
Wildlife Refuge**
Plate 22-A











Proposed Actions
-Replace sub-impoundment pumps.

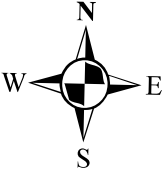
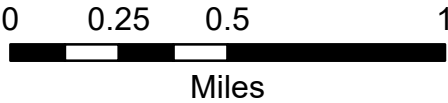


Vicinity Map



Name	Agency	Acres
Rend Lake Wildlife Refuge	IDNR	1109
Rend Lake Wildlife Refuge Waters	IDNR	2882
Total Refuge Lands and Waters		3991

-  Primary Boat Ramp
-  Wildlife Viewing Tower
-  Parking Area
-  Maintenance Building
-  Wayne Fitzgerald Bike Trail
-  Rend Lake Wildlife Refuge
-  Wildlife Refuge Waters
-  Boundary Line



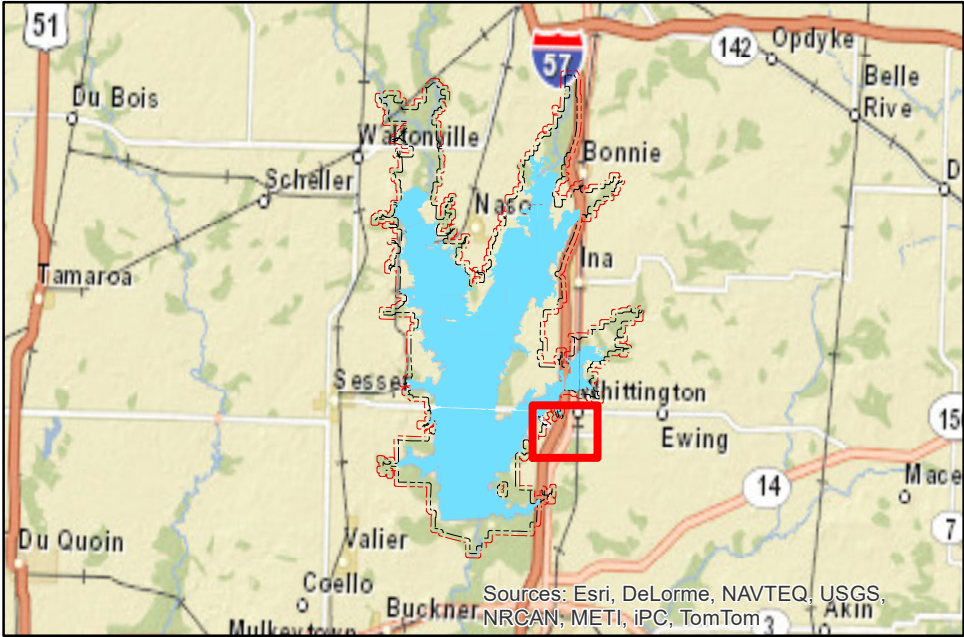
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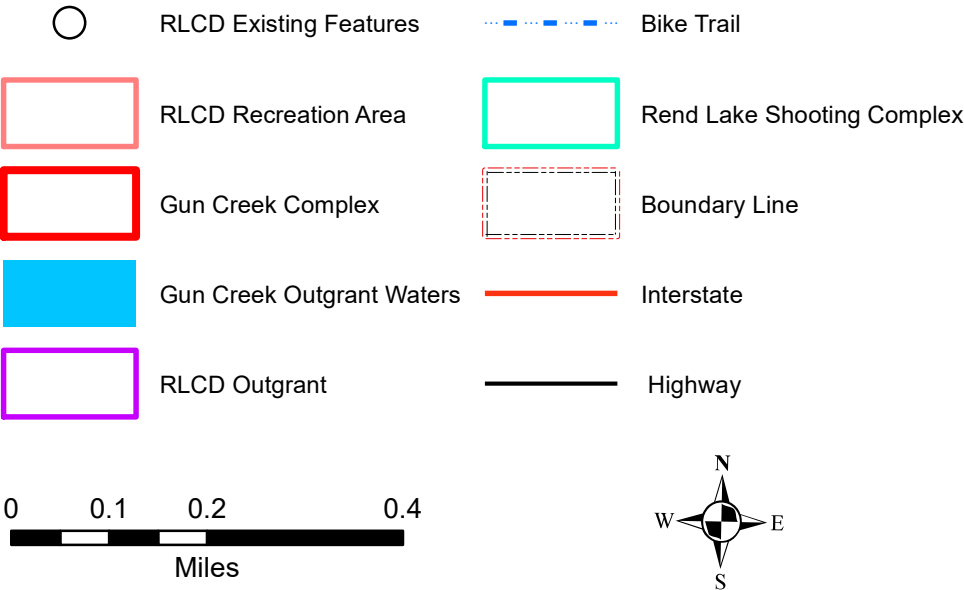
Rend Lake
Wildlife Refuge

Plate 22-B

Vicinity Map



Name	Agency	Acres
RLCD Recreation	RLCD	67
RLCD Gun Creek Complex	RLCD	49
RLCD Waters	RLCD	45
Total RLCD Outgrant Acres		161





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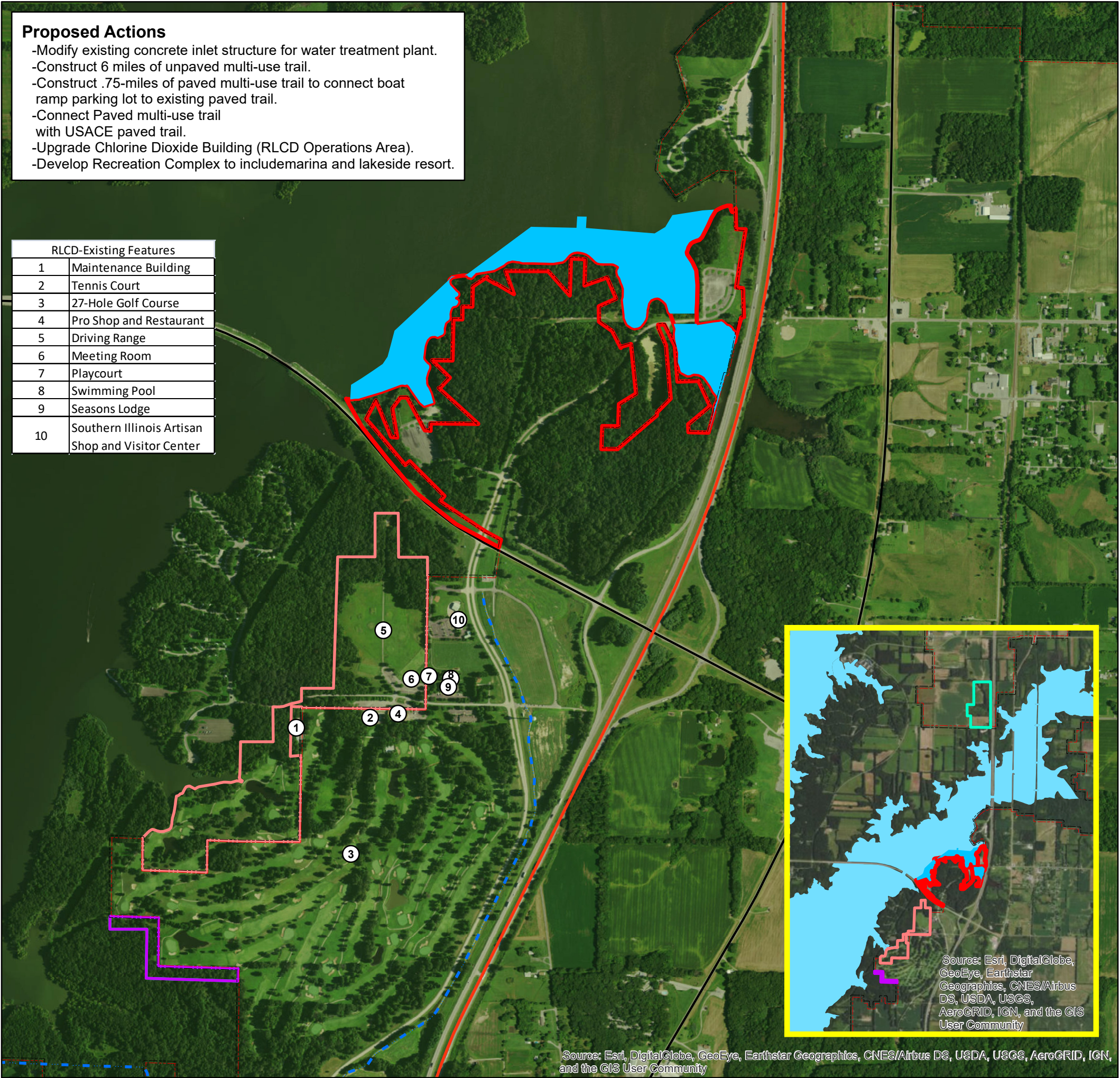
Rend Lake Conservancy District

Plate 23-A

Proposed Actions

- Modify existing concrete inlet structure for water treatment plant.
- Construct 6 miles of unpaved multi-use trail.
- Construct .75-miles of paved multi-use trail to connect boat ramp parking lot to existing paved trail.
- Connect Paved multi-use trail with USACE paved trail.
- Upgrade Chlorine Dioxide Building (RLCD Operations Area).
- Develop Recreation Complex to includemarina and lakeside resort.

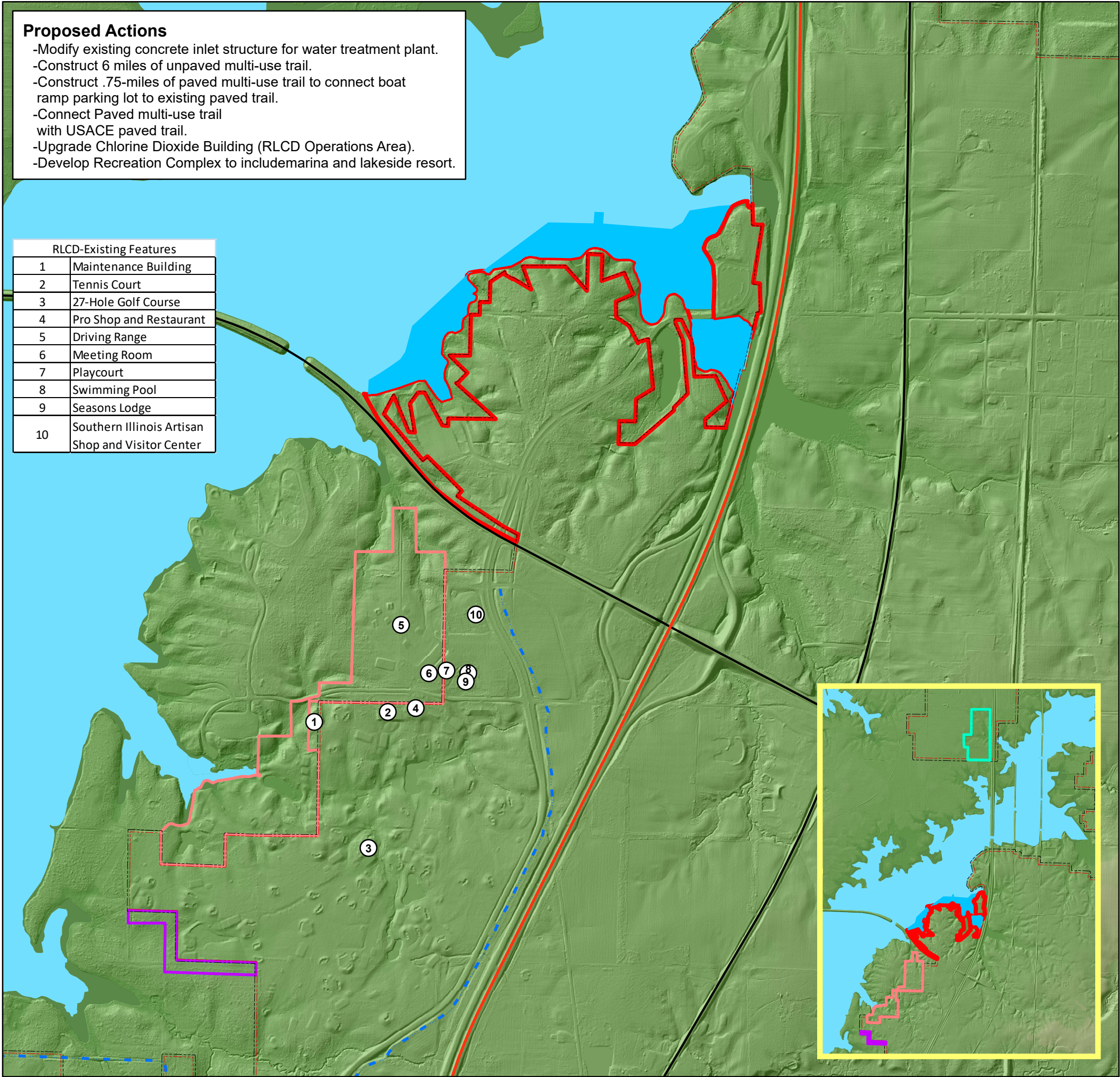
RLCD-Existing Features	
1	Maintenance Building
2	Tennis Court
3	27-Hole Golf Course
4	Pro Shop and Restaurant
5	Driving Range
6	Meeting Room
7	Playcourt
8	Swimming Pool
9	Seasons Lodge
10	Southern Illinois Artisan Shop and Visitor Center



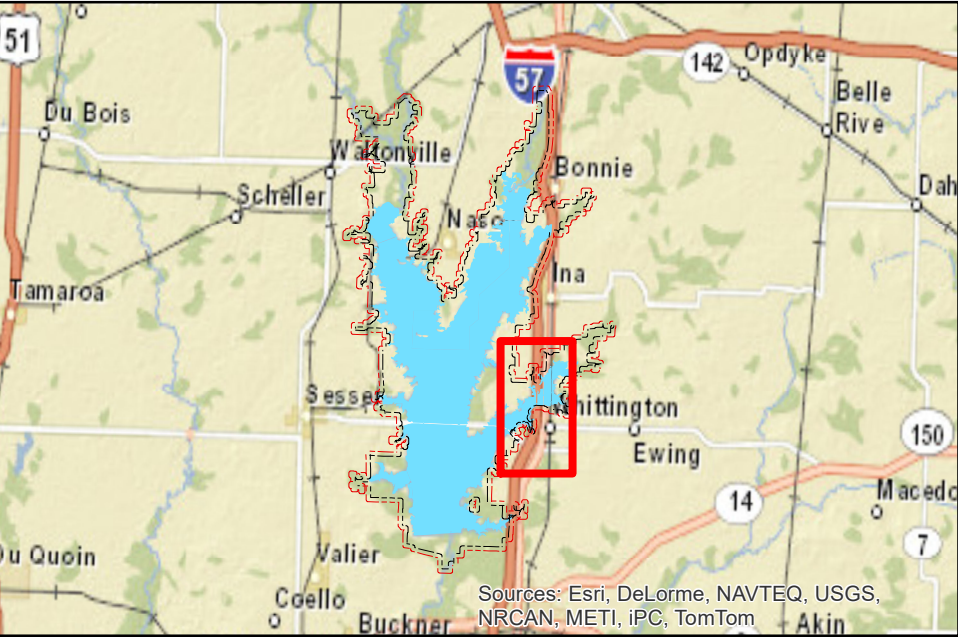
Proposed Actions

- Modify existing concrete inlet structure for water treatment plant.
- Construct 6 miles of unpaved multi-use trail.
- Construct .75-miles of paved multi-use trail to connect boat ramp parking lot to existing paved trail.
- Connect Paved multi-use trail with USACE paved trail.
- Upgrade Chlorine Dioxide Building (RLCD Operations Area).
- Develop Recreation Complex to includemarina and lakeside resort.

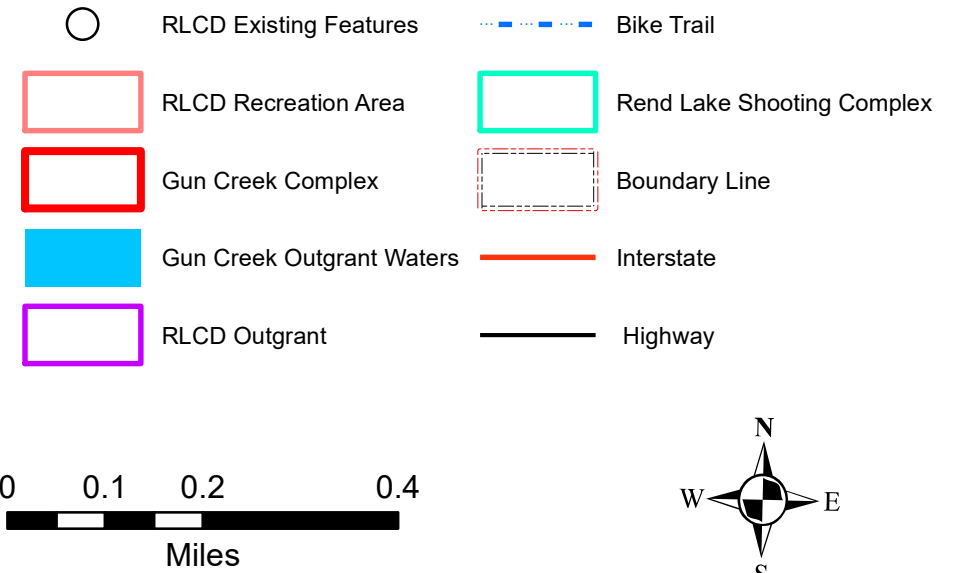
RLCD-Existing Features	
1	Maintenance Building
2	Tennis Court
3	27-Hole Golf Course
4	Pro Shop and Restaurant
5	Driving Range
6	Meeting Room
7	Playcourt
8	Swimming Pool
9	Seasons Lodge
10	Southern Illinois Artisan Shop and Visitor Center



Vicinity Map



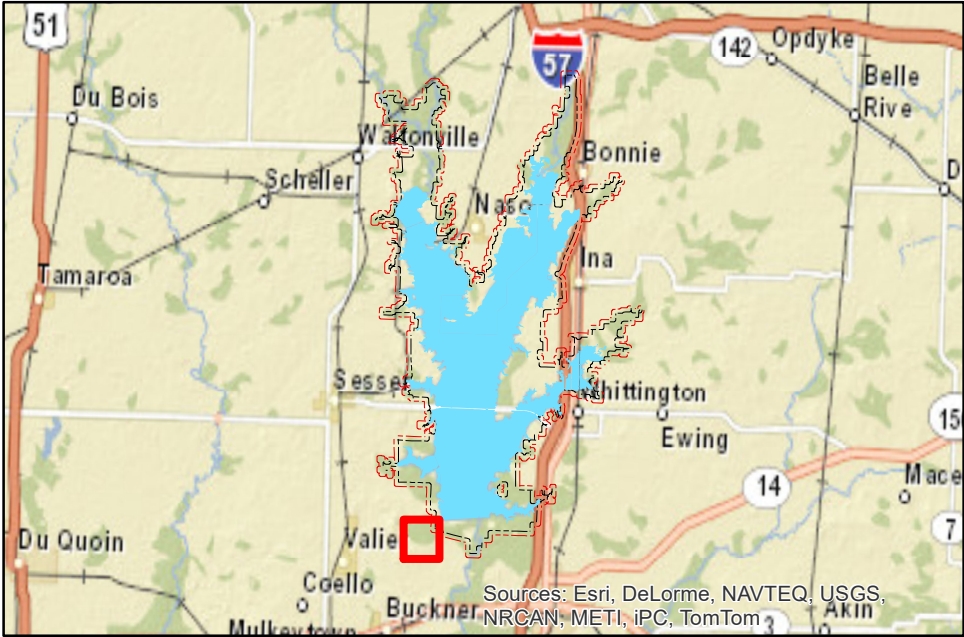
Name	Agency	Acres
RLCD Recreation	RLCD	67
RLCD Gun Creek Complex	RLCD	49
RLCD Waters	RLCD	45
Total RLCD Outgrant Acres		161



**REND LAKE
BIG MUDDY RIVER
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Rend Lake Conservancy District

Vicinity Map

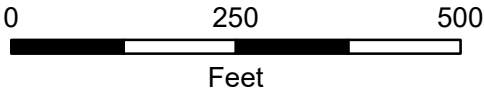


Name	Agency	Acres
Rend Lake Marina	Concessionaire	40.00

 Rend Lake Bike Trail

 Rend Lake Marina

 Boundary Line



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Rend Lake Marina

Plate 24-A

Proposed Actions

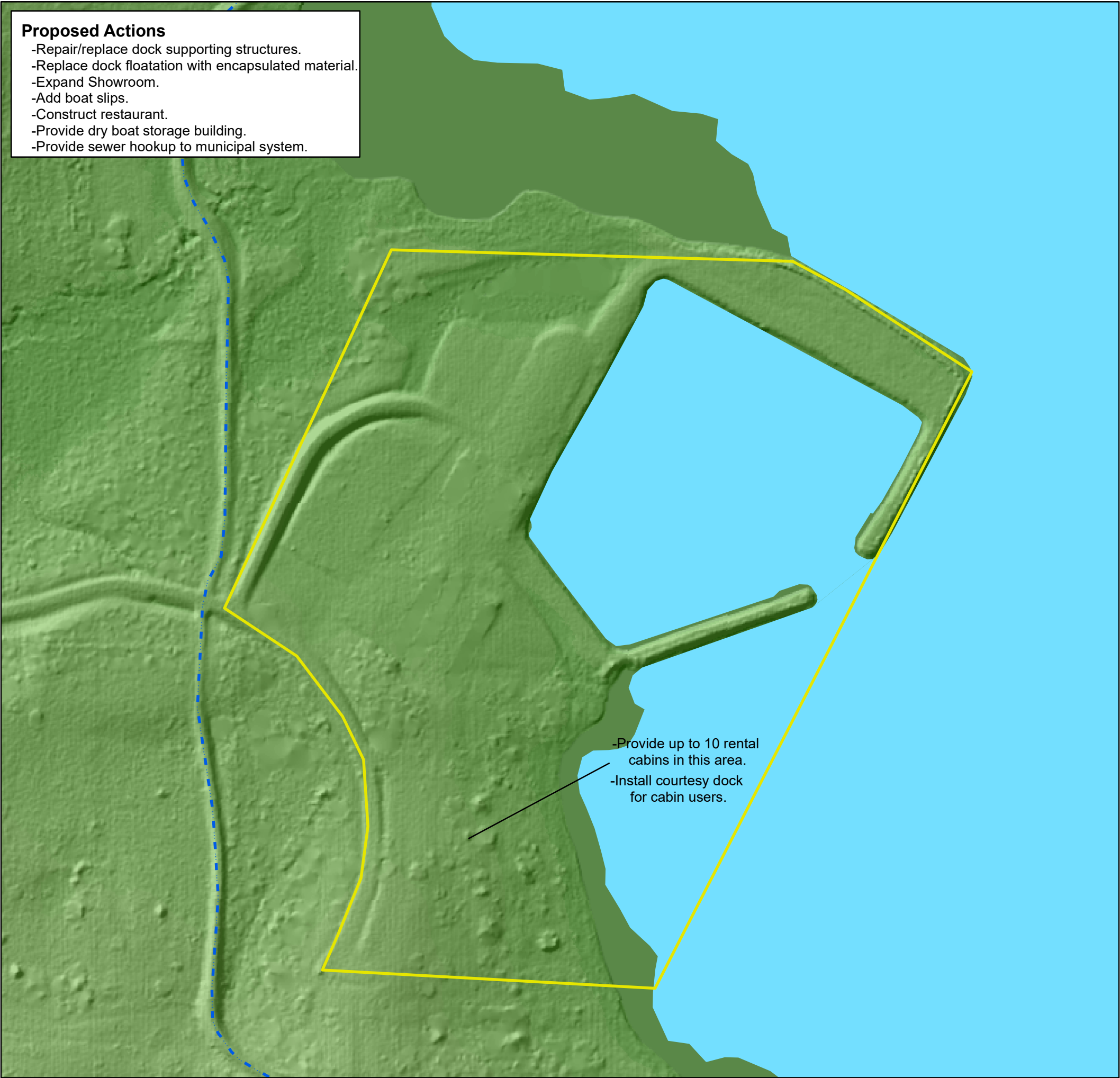
- Repair/Replace dock supporting structures.
- Replace dock floatation with encapsulated material.
- Expand Showroom.
- Add boat slips.
- Construct restaurant.
- Provide dry boat storage building.
- Provide sewer hookup to municipal system.



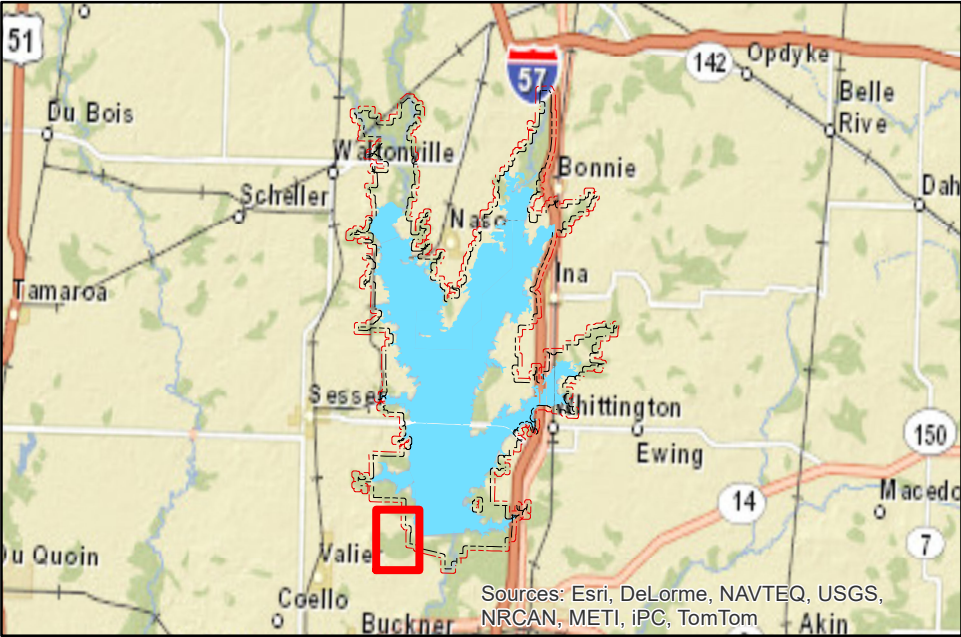
- Provide up to 10 rental cabins in this area.
- Install courtesy dock for cabin users.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Proposed Actions**
- Repair/replace dock supporting structures.
 - Replace dock floatation with encapsulated material.
 - Expand Showroom.
 - Add boat slips.
 - Construct restaurant.
 - Provide dry boat storage building.
 - Provide sewer hookup to municipal system.

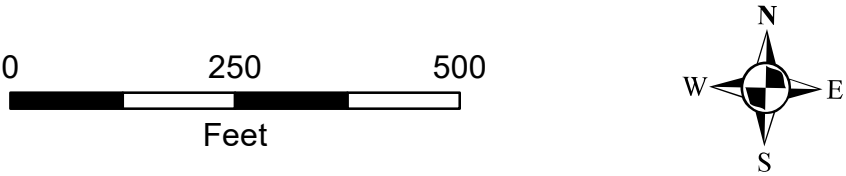



Vicinity Map



Name	Agency	Acres
Rend Lake Marina	Concessionaire	40.00

- Rend Lake Bike Trail
- Rend Lake Marina
- Boundary Line





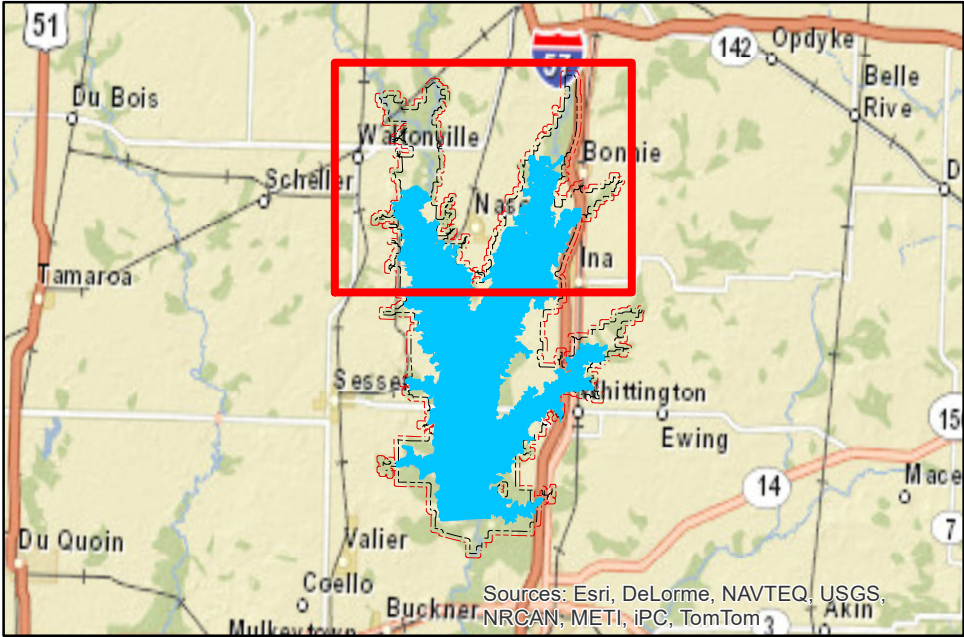
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Rend Lake Marina

Plate 24-B


Vicinity Map




Name	Agency	Acres
Big Muddy Subimpoundment Dam	IDNR	6
Big Muddy WMA	IDNR	4087
Casey Fork Subimpoundment Dam	IDNR	5
Casey Fork WMA	IDNR	2603
Total WMA Acres		6701



Hunter/Fisherman Parking Area




Primary Boat Ramp




Seasonal Boat Ramp




Big Muddy Subimpoundment Dam




Big Muddy Wildlife Mgmt Area



Casey Fork Subimpoundment Dam



Casey Fork Wildlife Mngt Area



Boundary Line

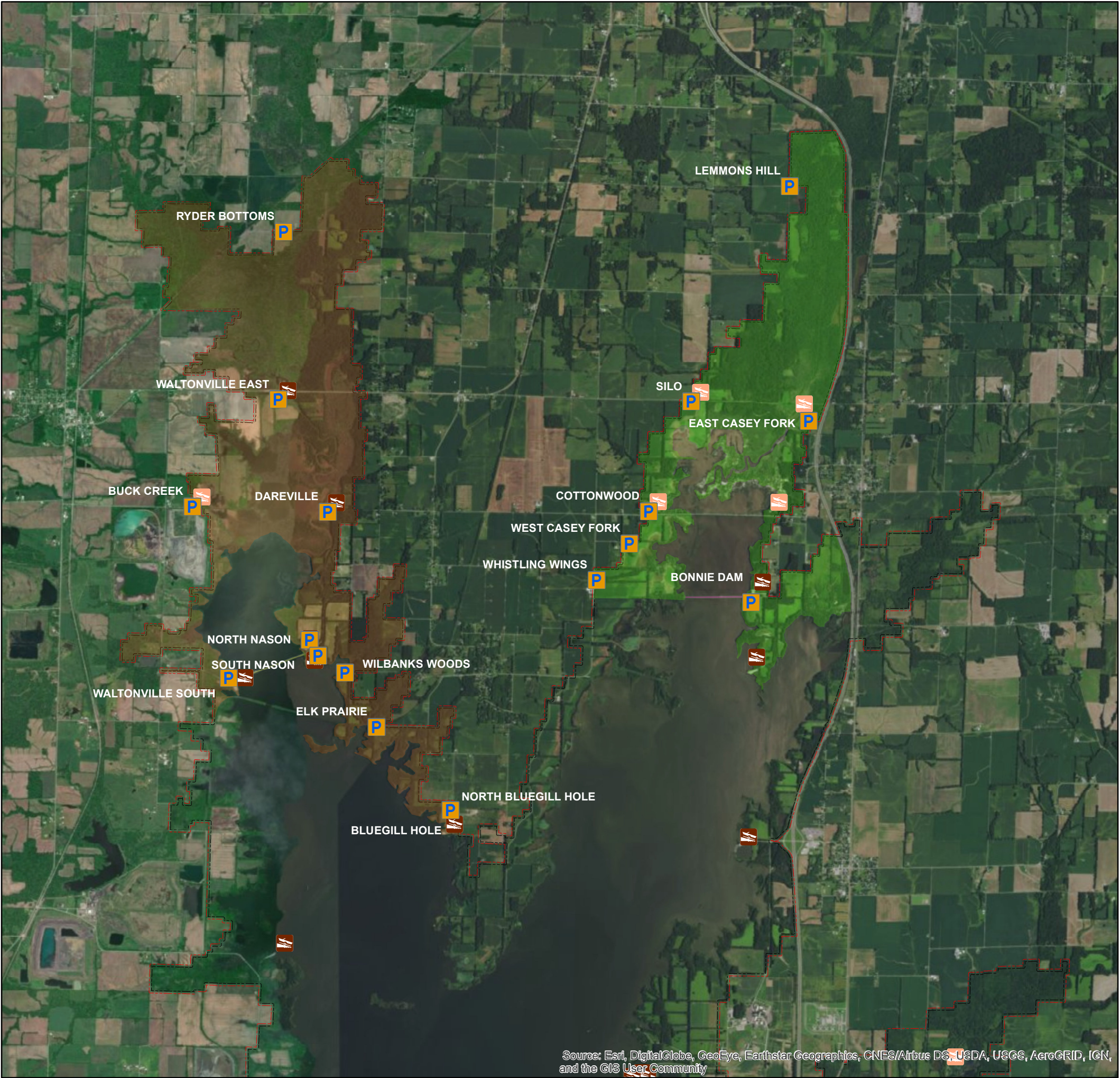




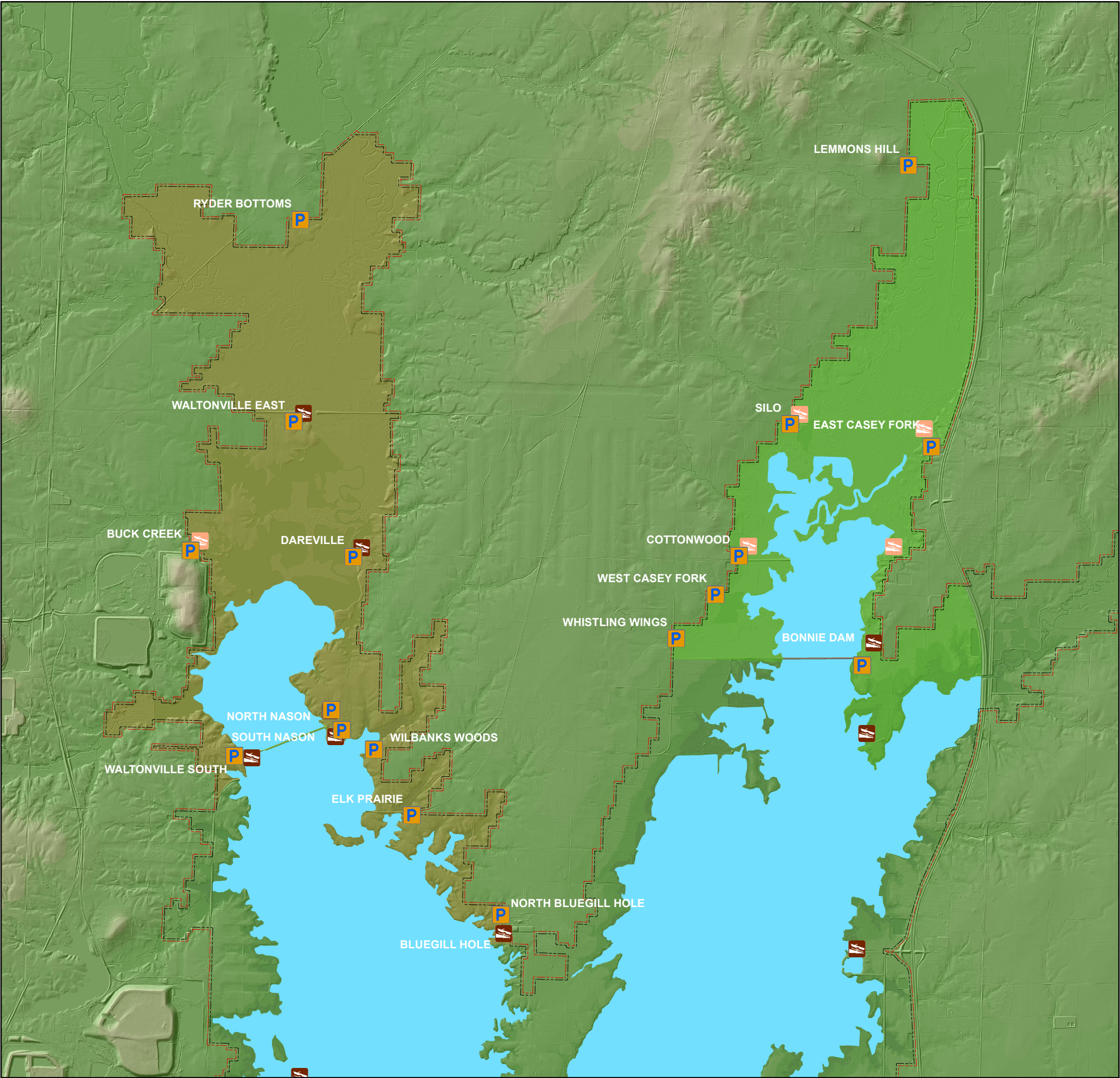
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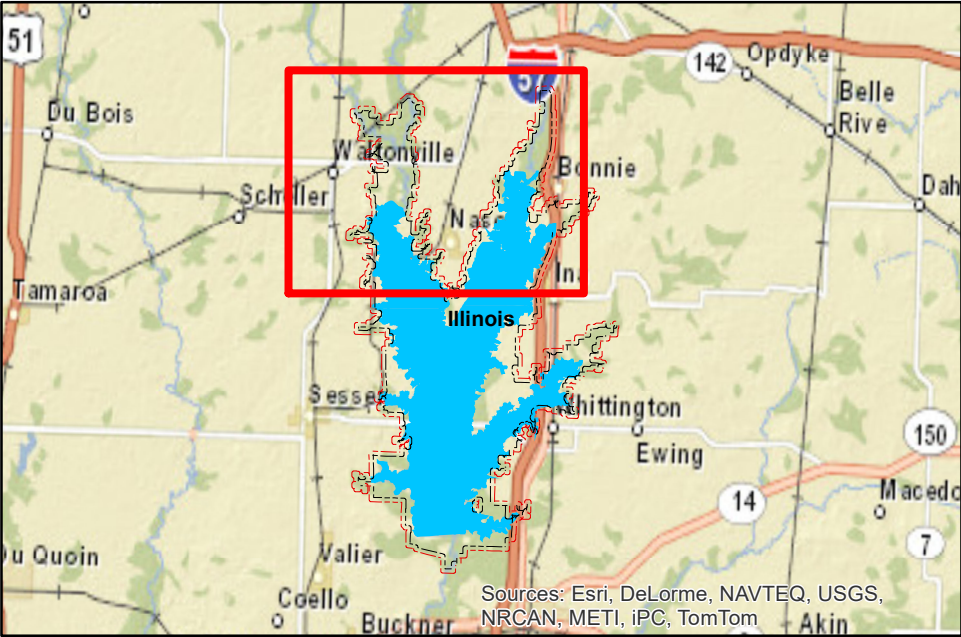
**Wildlife Management Areas
Overview**
Plate25-A



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Vicinity Map



Name	Agency	Acres
Big Muddy Subimpoundment Dam	IDNR	6
Big Muddy WMA	IDNR	4087
Casey Fork Subimpoundment Dam	IDNR	5
Casey Fork WMA	IDNR	2603
Total WMA Acres		6701

- Hunter/Fisherman Parking Area
- Primary Boat Ramp
- Seasonal Boat Ramp
- Big Muddy Subimpoundment Dam
- Big Muddy Wildlife Mgt Area
- Casey Fork Subimpoundment Dam
- Casey Fork Wildlife Mgt Area
- Boundary Line

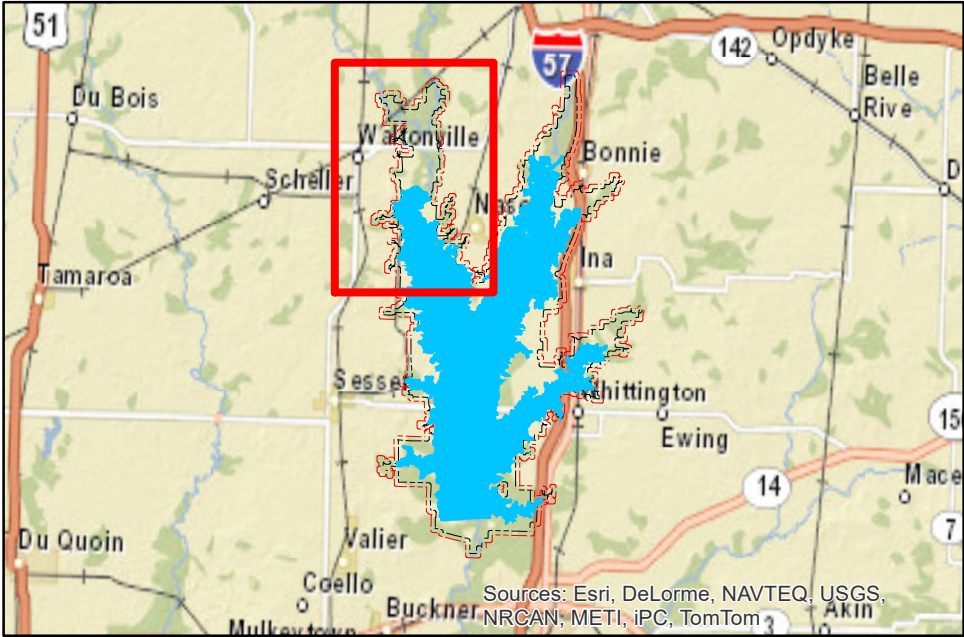


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**Wildlife Management Areas
Overview**
Plate25-B

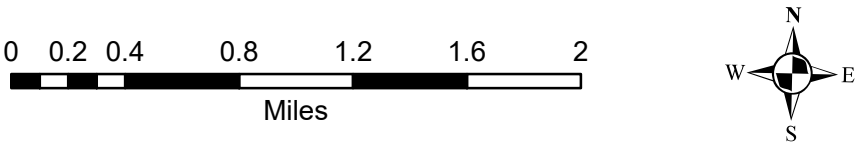
Vicinity Map



Name	Agency	Acres
Big Muddy Subimpoundment Dam	USACE	6
Big Muddy WMA Acres	IDNR	4087

Secondary Boat Ramps	4
Seasonal Boat Ramps	3
Hunter-Fishermen Parking Areas	10

-  Hunter/Fisherman Parking Area
-  Primary Boat Ramp
-  Seasonal Boat Ramp
-  Big Muddy Subimpoundment Dam
-  Big Muddy Wildlife Magt Area
-  Boundary Line



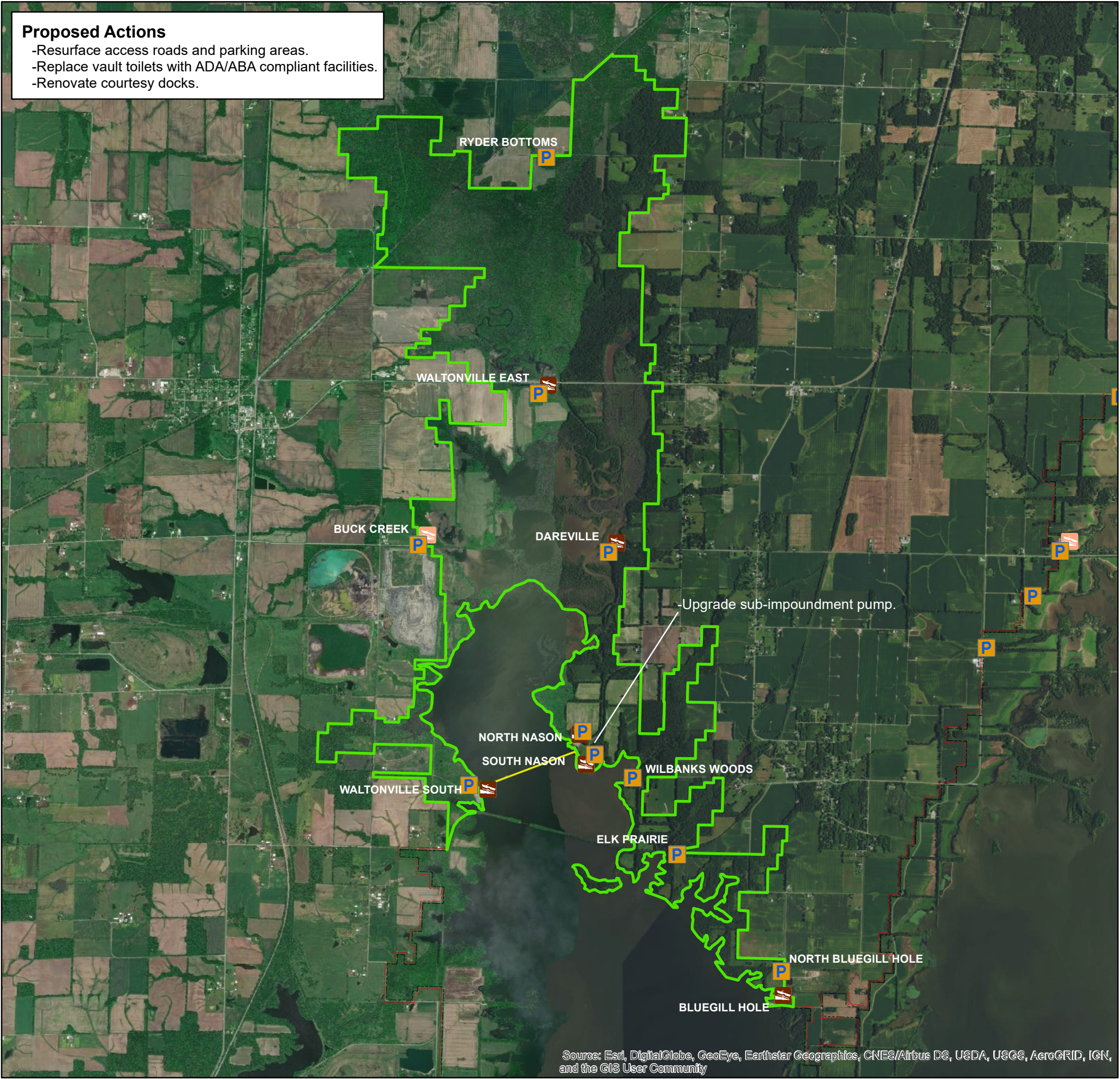
REND LAKE
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Big Muddy
Wildlife Management Area

Plate 26-A

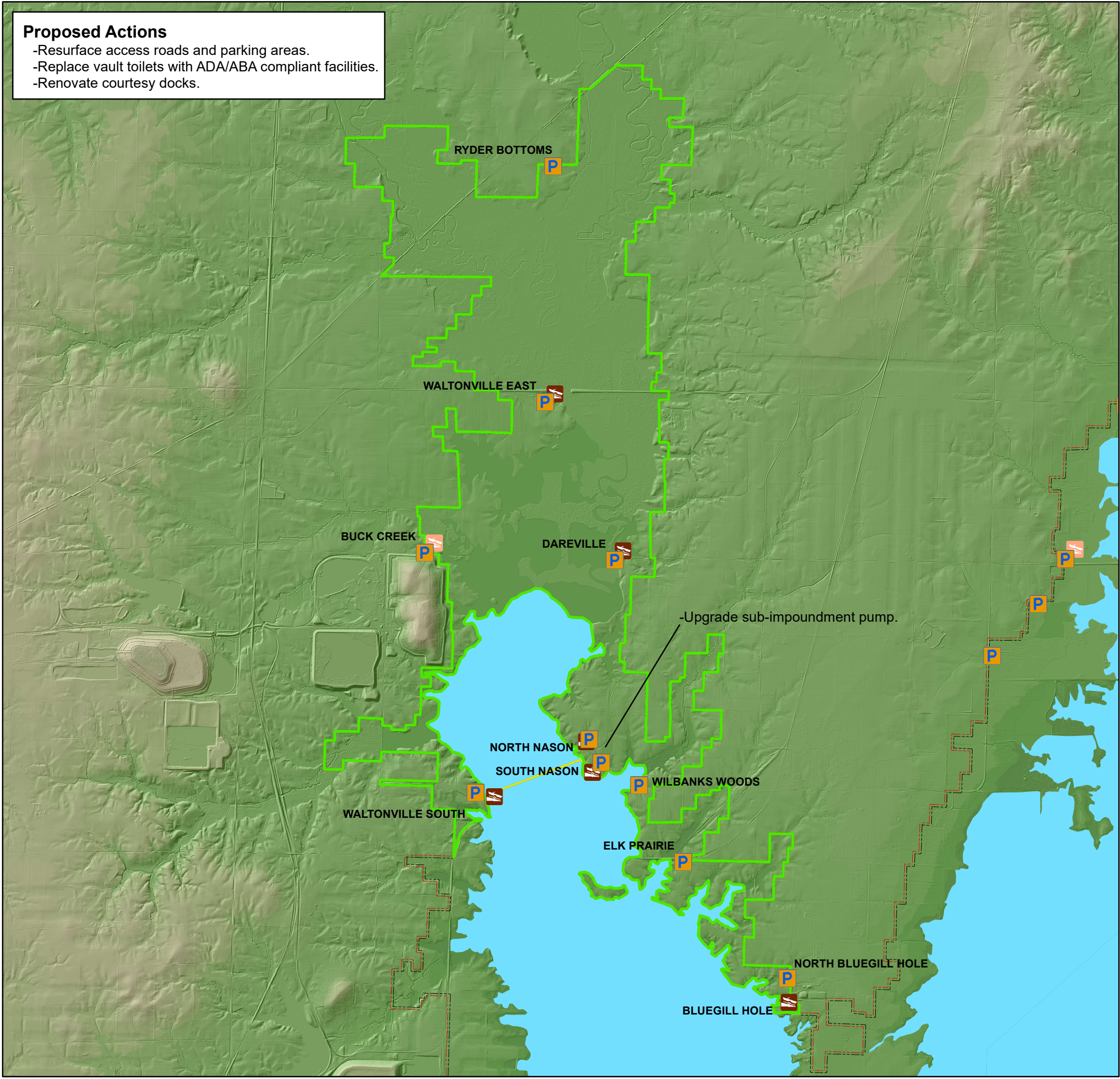
Proposed Actions

- Resurface access roads and parking areas.
- Replace vault toilets with ADA/ABA compliant facilities.
- Renovate courtesy docks.

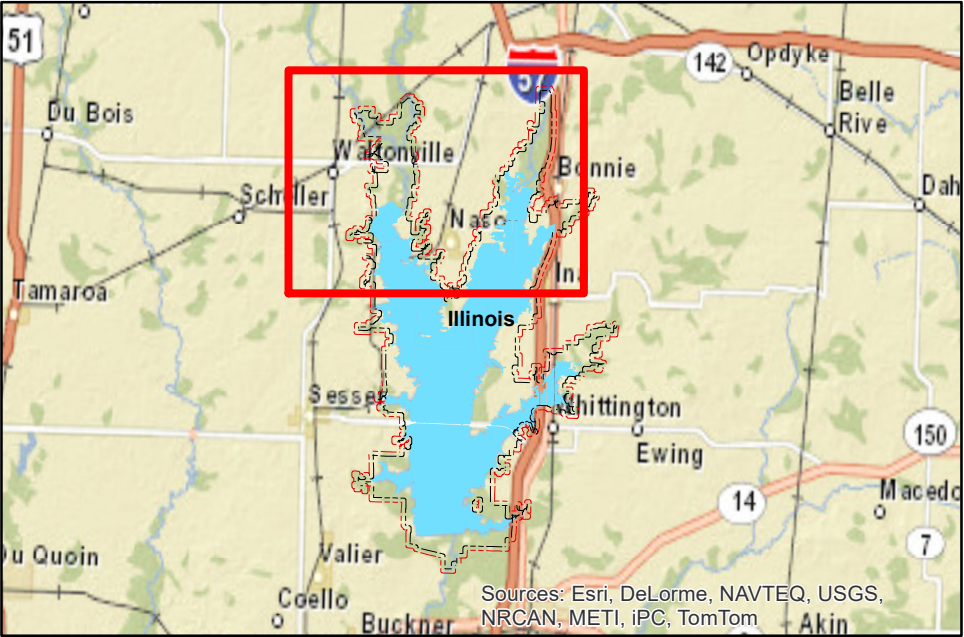


Proposed Actions

- Resurface access roads and parking areas.
- Replace vault toilets with ADA/ABA compliant facilities.
- Renovate courtesy docks.



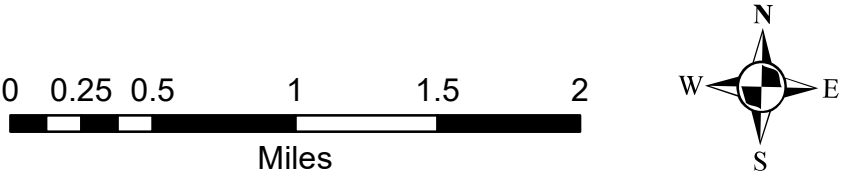
Vicinity Map



Name	Agency	Acres
Big Muddy Subimpoundment Dam	USACE	6
Big Muddy WMA Acres	IDNR	4087

Secondary Boat Ramps	4
Seasonal Boat Ramps	3
Hunter-Fishermen Parking Areas	10

-  Hunter/Fisherman Parking Area
-  Primary Boat Ramp
-  Seasonal Boat Ramp
-  Big Muddy Subimpoundment Dam
-  Big Muddy Wildlife Magt Area
-  Boundary Line

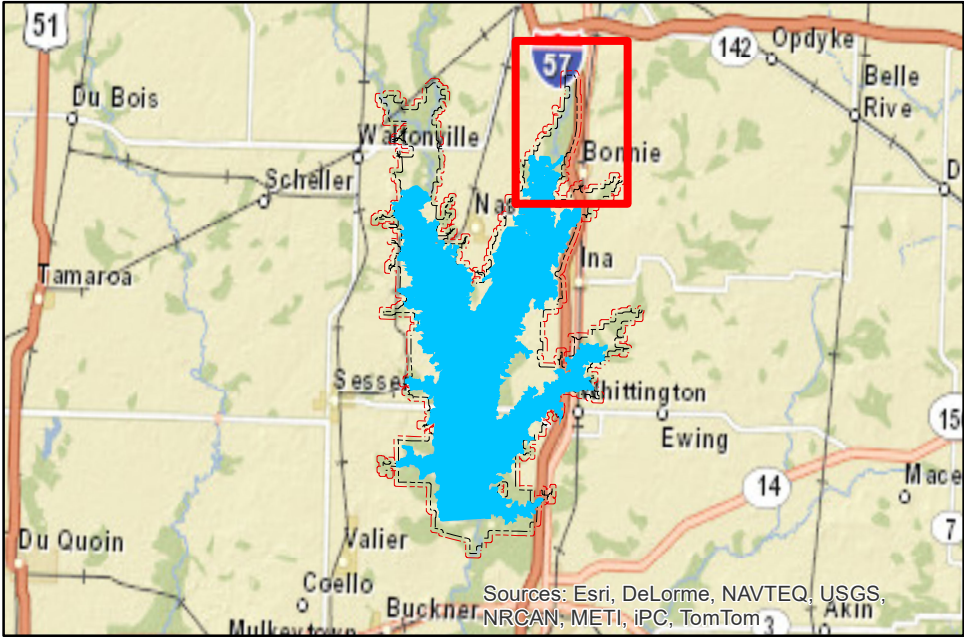


**REND LAKE
BIG MUDDY RIVER
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**Big Muddy
Wildlife Management Area**







Plate 26-B

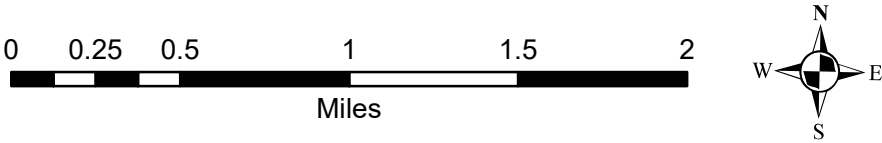
Vicinity Map



Name	Agency	Acres
Casey Fork Subimpoundment Dam	USACE	5
Casey Fork WMA Acres	IDNR	2603

Secondary Boat Ramp	3
Seasonal Boat Ramp	3
Hunter-Fishermen Parking Areas	7

-  Hunter/Fisherman Parking Area
-  Primary Boat Ramp
-  Seasonal Boat Ramp
-  Casey Fork Subimpoundment Dam
-  Casey Fork Wildlife Mngt Area
-  Boundary Line





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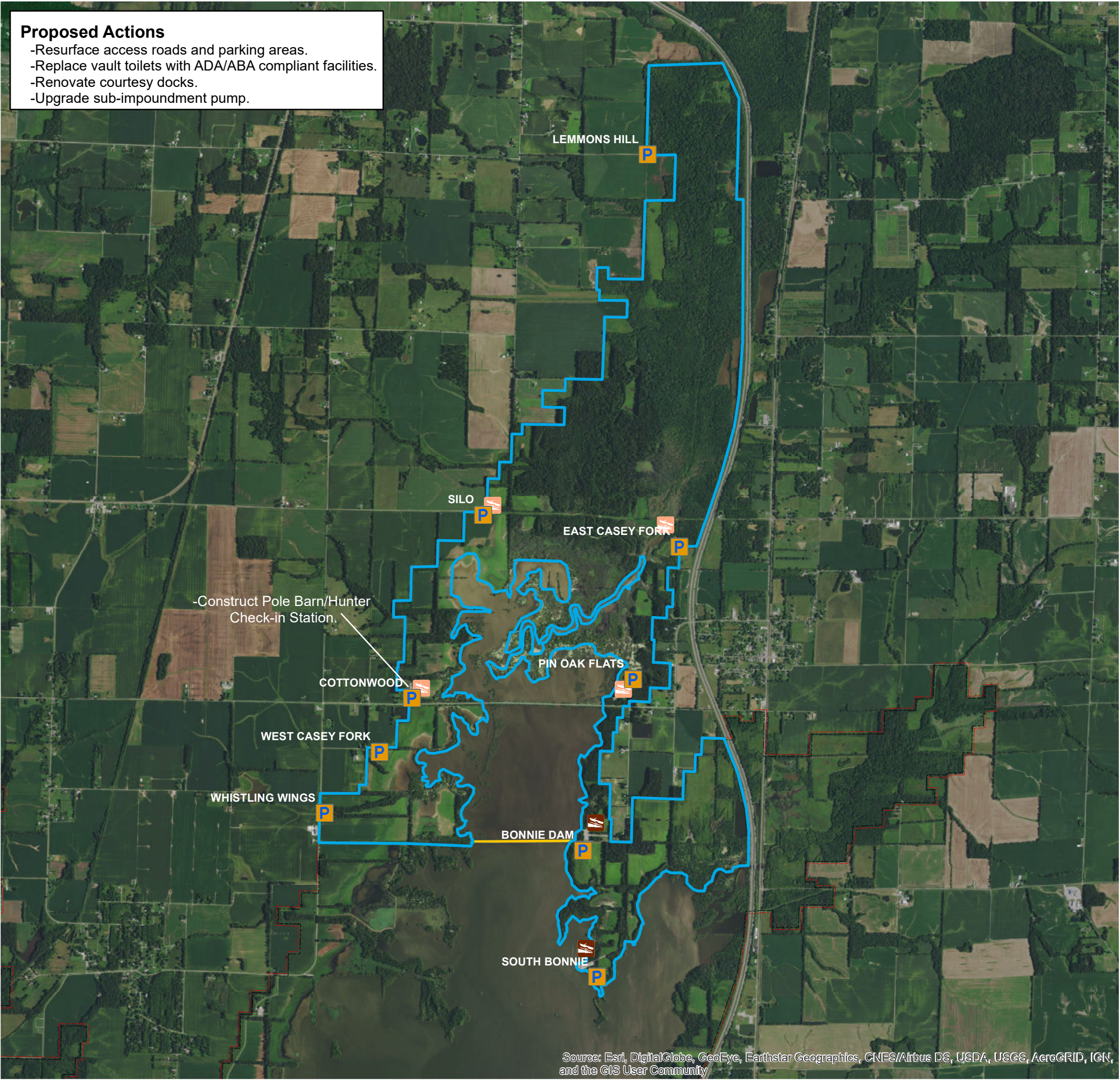
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**Casey Fork
Wildlife Management Area**

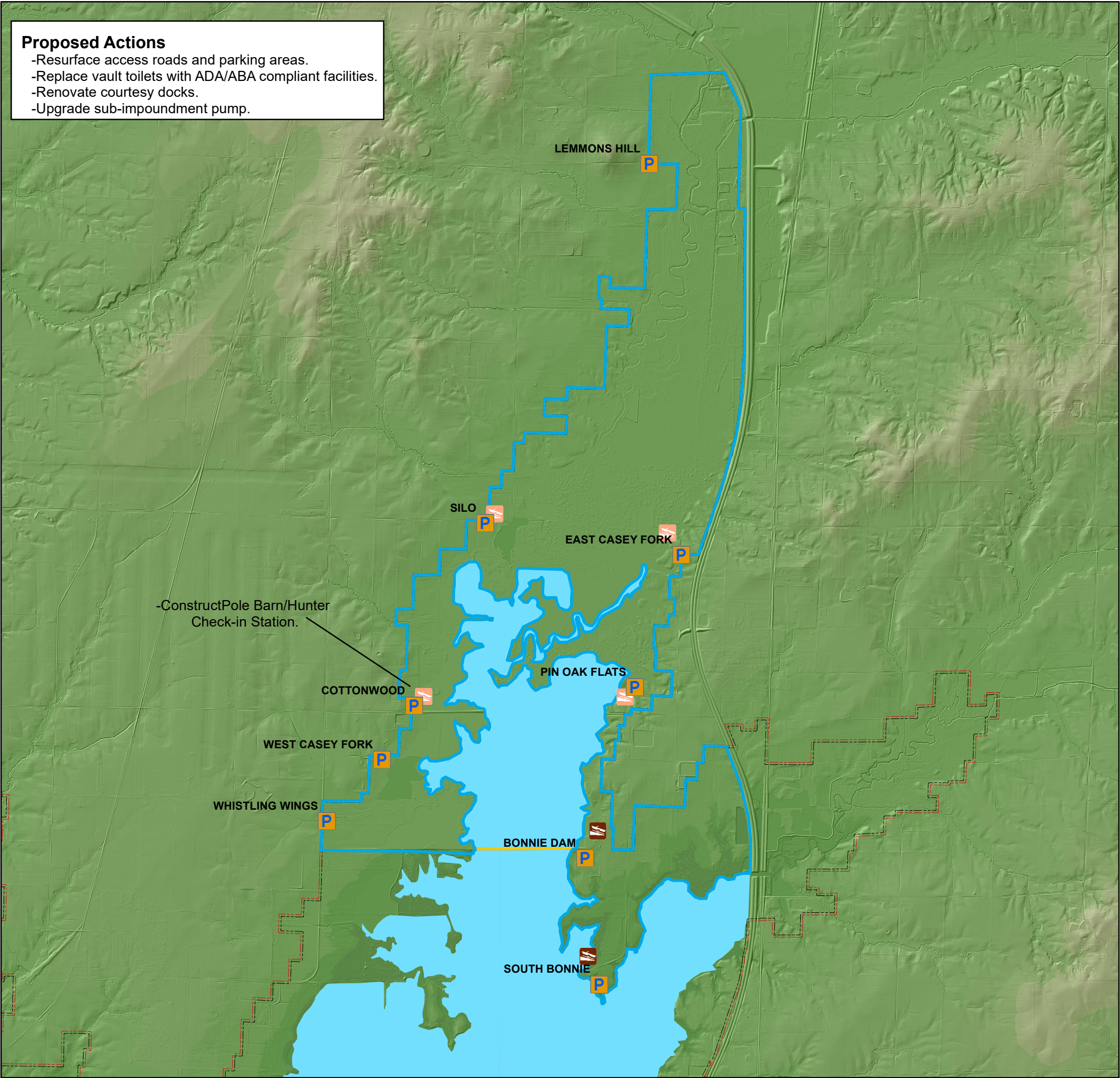
Plate 27-A

Proposed Actions

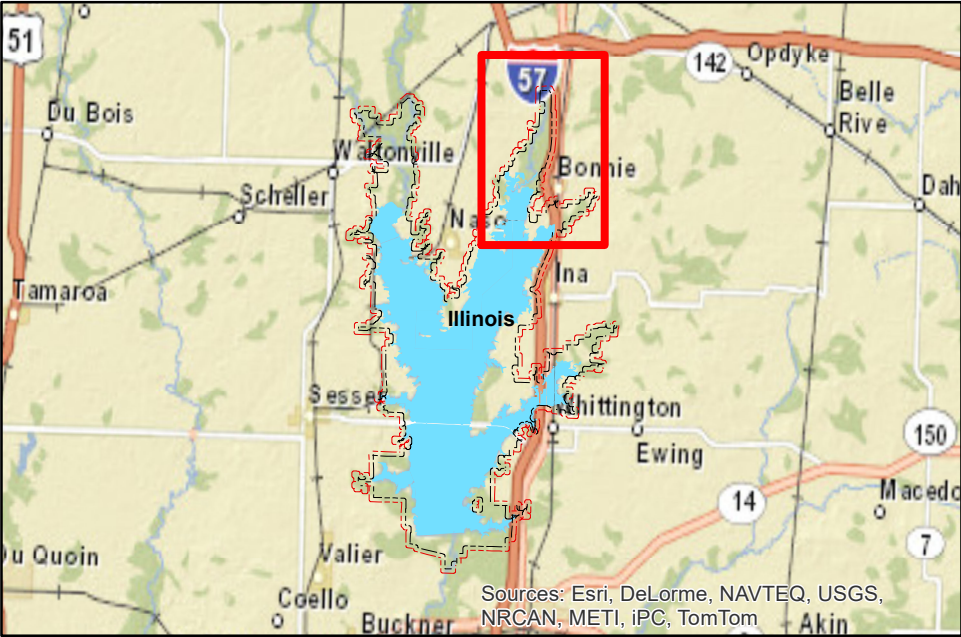
- Resurface access roads and parking areas.
- Replace vault toilets with ADA/ABA compliant facilities.
- Renovate courtesy docks.
- Upgrade sub-impoundment pump.



- Proposed Actions**
- Resurface access roads and parking areas.
 - Replace vault toilets with ADA/ABA compliant facilities.
 - Renovate courtesy docks.
 - Upgrade sub-impoundment pump.



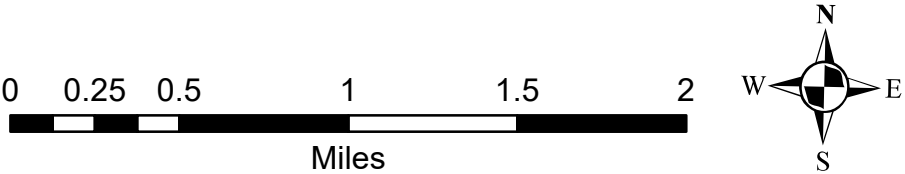
Vicinity Map



Name	Agency	Acres
Casey Fork Subimpoundment Dam	USACE	5
Casey Fork WMA Acres	IDNR	2603

Secondary Boat Ramp	3
Seasonal Boat Ramp	3
Hunter-Fishermen Parking Areas	7

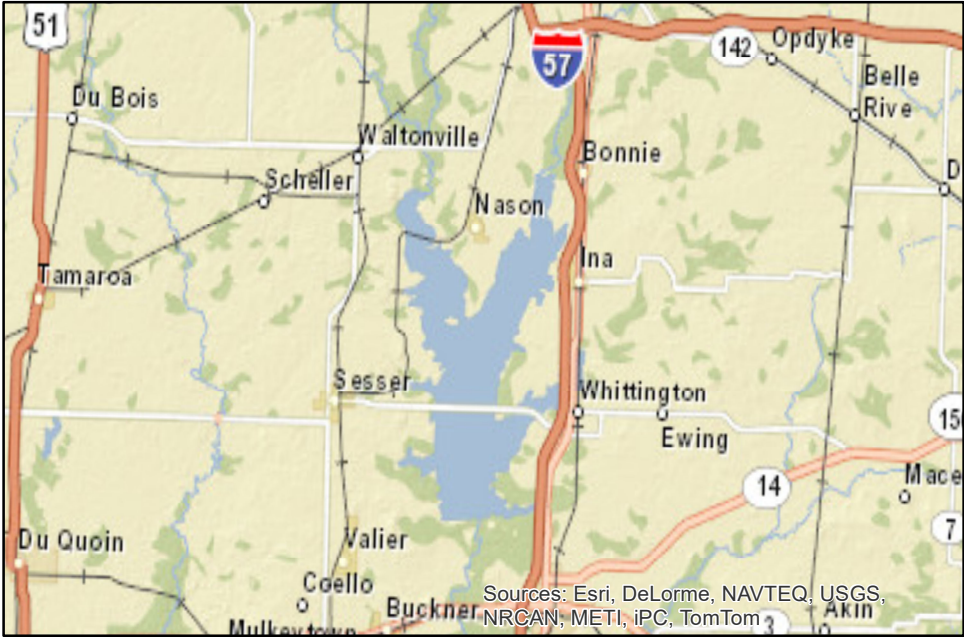
- Hunter/Fisherman Parking Area
- Primary Boat Ramp
- Seasonal Boat Ramp
- Casey Fork Subimpoundment Dam
- Casey Fork Wildlife Mngt Area
- Boundary Line



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**Casey Fork
Wildlife Management Area**

Vicinity Map



Classification	Acres
General Recreation Waters	17171
Restricted Access Waters	27
No-Wake Waters	553
Sanctuary Waters	2882
Total Project Waters	20633

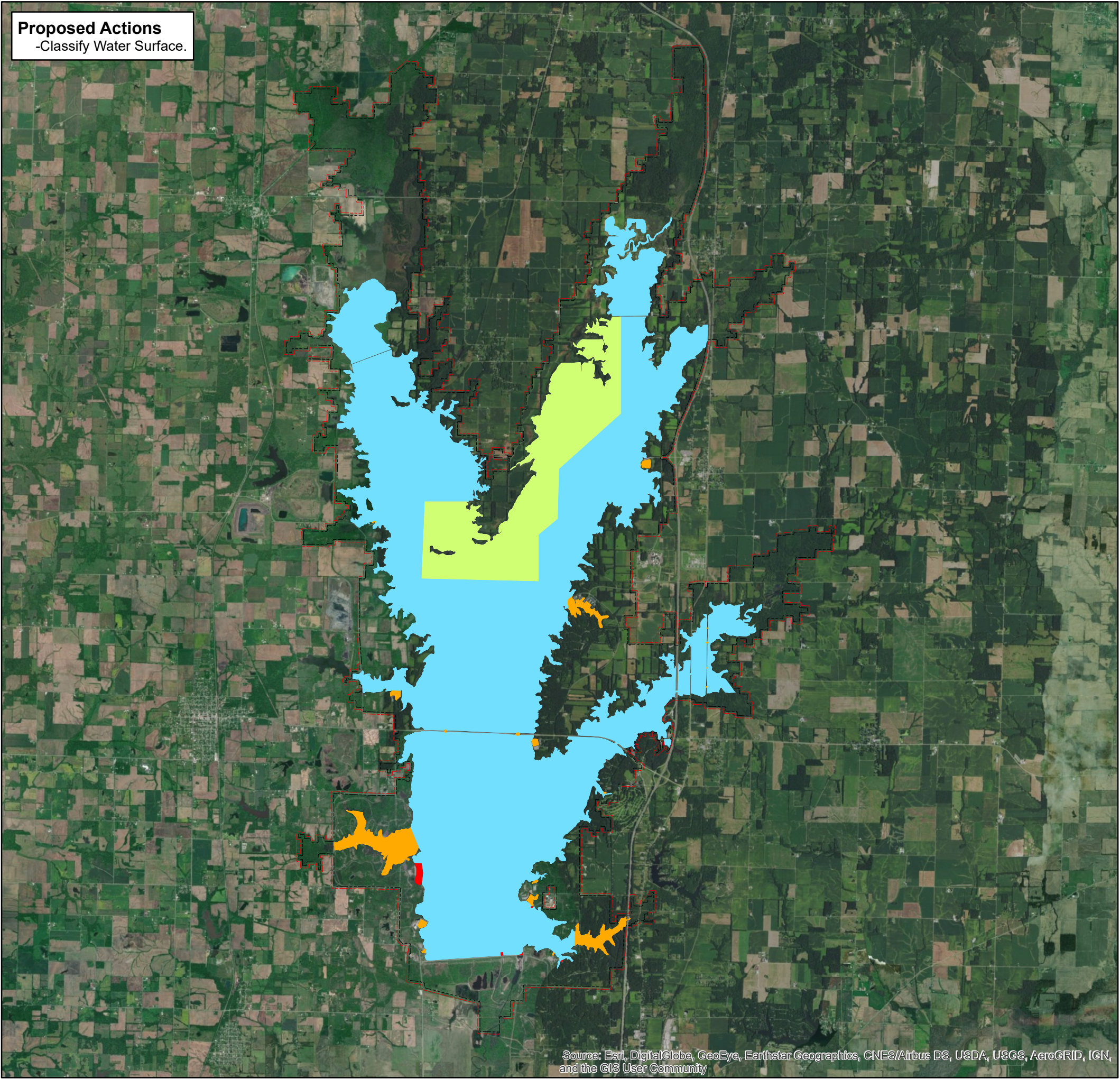
-  Open Water
-  Restricted Area
-  No-Wake Zone
-  Sanctuary Waters
-  Boundary Line



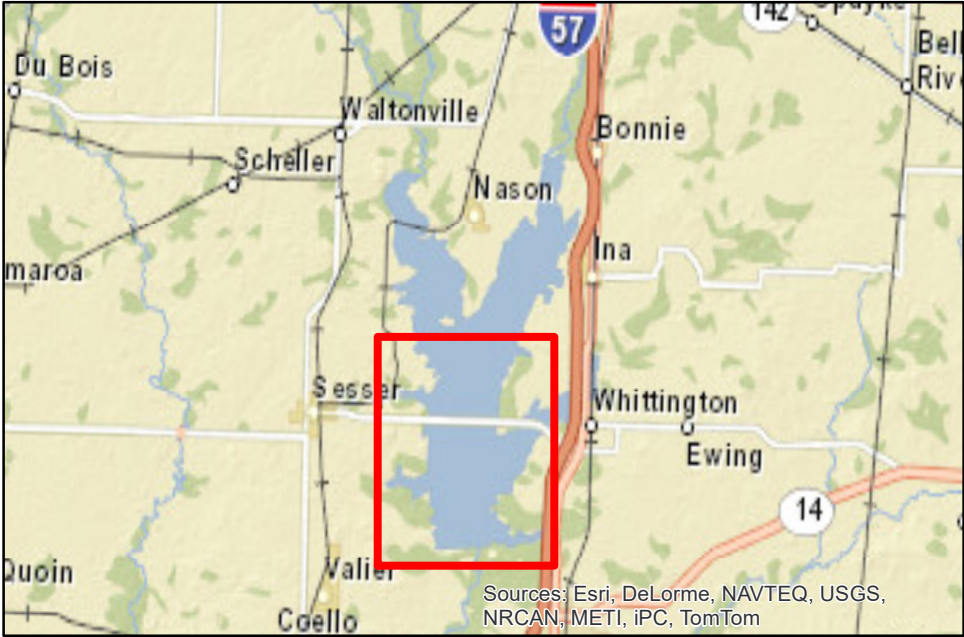
REND LAKE
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Water Classification
Overview

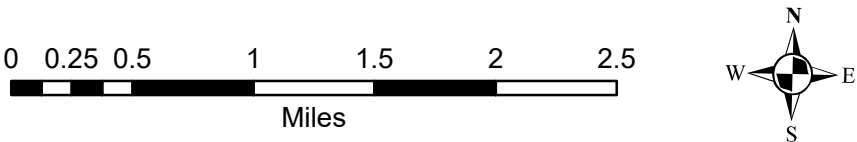
Proposed Actions
-Classify Water Surface.



Vicinity Map



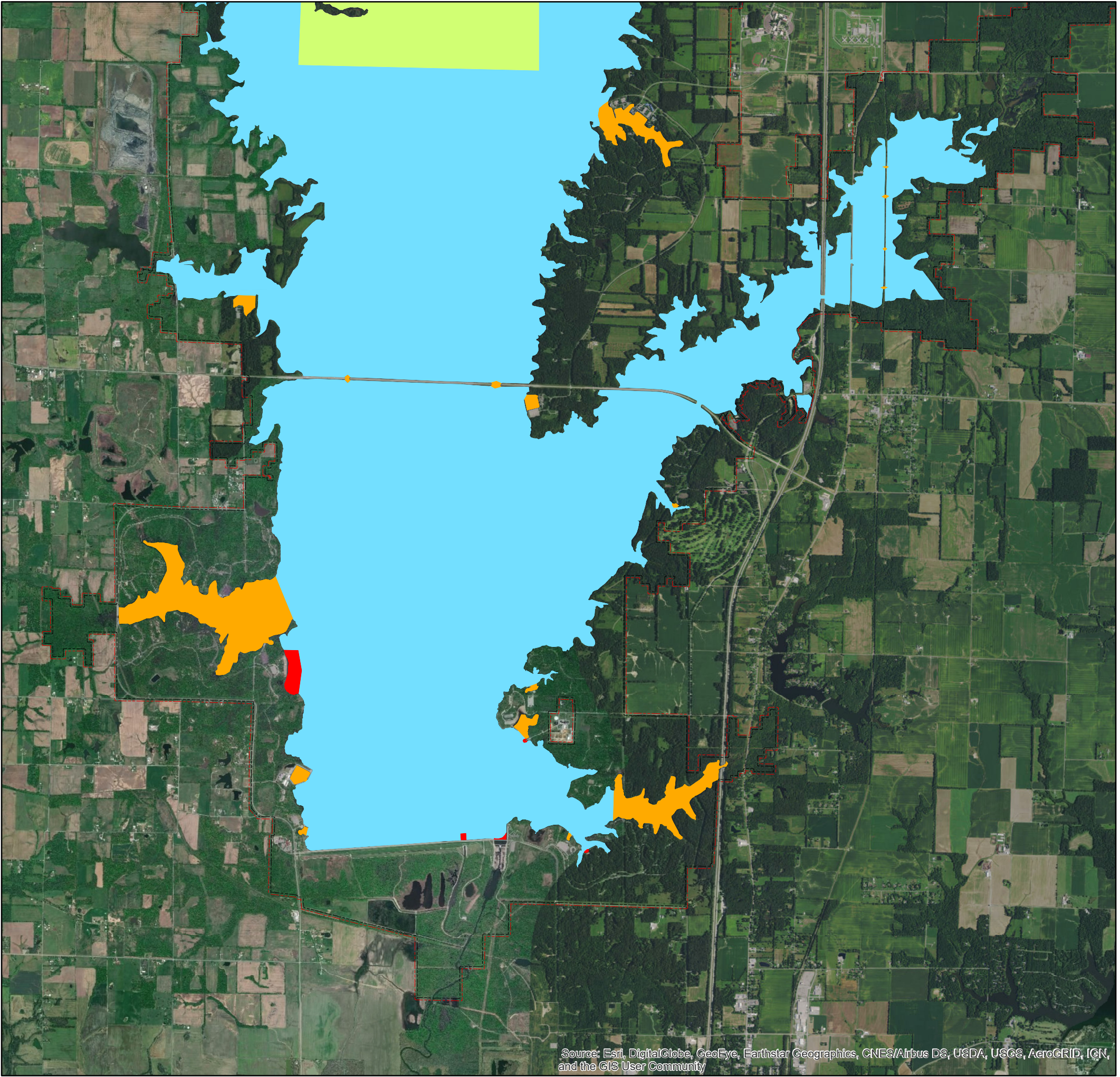
-  Open Water
-  Restricted Area
-  No-Wake Zone
-  Sanctuary Waters
-  Boundary Line



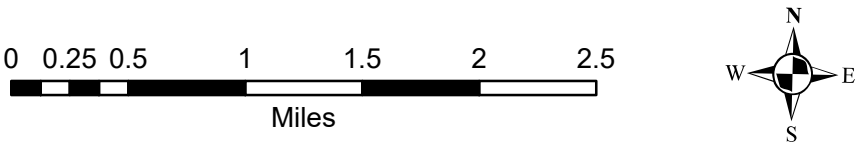
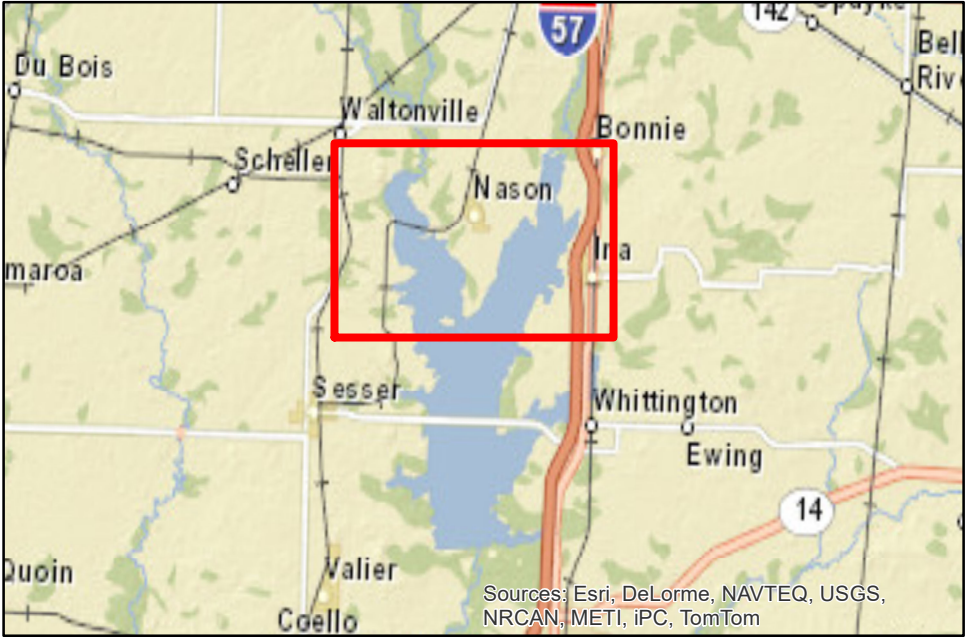
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**Water Classification
South**

Plate 29



Vicinity Map





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**Water Classification
North**

Plate 30

