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Boat Ramp Site Study

Report

Harrison County, IN

July 2012

STRAND ASSOCIATES®

Report for

Harrison County, Indiana

Boat Ramp Site Study

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July 2012

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

This Boat Ramp Site Study for Harrison County provides information necessary for Harrison County to determine the location and economic feasibility of two public boat ramps and possible further site development along the Ohio River. Approximately 9 miles of riverfront parcels along the Ohio River were analyzed for potential boat ramp sites.

Two areas of interest were the main focus because of their proximity to passing motorists and population centers. This narrowed the number of prospective sites to a reasonable amount, while still allowing the County to consider a variety of sites.

The County's main focus is to create a site that is conveniently located with suitable facilities that will encourage boaters from the surrounding area and passers-by to utilize the proposed facilities and potentially stimulate the local economy. By choosing two sites in different areas, and developing the site beyond a boat ramp, the County hopes to reach a variety of citizens.

Two sites are recommended for a public boat ramp. An opinion of probable cost was developed for each of the recommended sites. Section 6 provides a breakdown of the opinion of probable cost by feature.

The first site is located immediately south of the Junction of State Road (SR) 211 and SR 111. The site's location and large land area make it an appealing site for a boat ramp with multiple added facilities. The cost for this site was broken down in to two parts, the boat ramp side and the campground side. The boat ramp side would feature angled/pull-through parking spots, a make-ready/tie-down area, a wide boat ramp, two sports fields with additional parking, restrooms, a shelter house, a playground area, and room for concessions. The opinion of probable cost for this area is $1,874,835 including land acquisition costs. The campground portion of this site would have a campground and restrooms. The opinion of probable cost for this area is $910,085

The second recommended site is just upstream of the existing boat ramp in the Town of Mauckport (Mauckport). With the site's location in the Town of Mauckport and smaller land area, this site would do well with a boat ramp and a few smaller facilities. This site would feature pull-through parking spots, a wide boat ramp, additional parking, a shelter house, a playground, and restrooms. The opinion of probable cost is $620,629.

One site is recommended for campground use only, which is Site 11. Site 11 is approximately 0.25 miles downstream from the existing boat ramp in Mauckport. The site contains ample area for a nice sized campground, and is just outside Mauckport. The site design includes a restroom, a small parking lot, an access road, and camping sites. The opinion of probable cost is $1,173,264.

SECTION 1
PROJECT LOCATION

1.01 PROJECT

Harrison County's southern border consists of 45 miles along the Ohio River. The Town of Mauckport (Mauckport) Boat Ramp is the only public boat ramp along this stretch of river and is currently not well maintained. Harrison County wants to build two boat ramps along the river to promote County citizens and those in the surrounding metropolitan area to utilize the recreational resources of Harrison County. The County also wants to consider further developments along with the boat ramp that will encourage people other than boaters to utilize the facilities.

1.02 LOCATION

Harrison County is located along the southern border of Indiana halfway between the eastern and western borders of the state. It is bordered by the Ohio River all along the southern edge. Figure 1.02-1 shows the location of the county in relation to the state.

Based on major roads, towns, river flow, and tourist attractions, two areas of interest were chosen to focus the site investigation, which are shown in Figure 1.02-2.

The northern area is focused at the junction of State Road (SR) 211 and SR 111 in Posey Township. This area contains approximately 4.5 miles of shore extending north to include the area just south of Horseshoe Southern Indiana Casino (previously Caesars Indiana Casino).

The southern focus area is around Mauckport in Heth Township. This area contains approximately 4.25 miles of shore extending southeast to Morvins Landing Road. SR 135 crosses over the Ohio River into Kentucky just southeast of Mauckport.

1.03 PROJECT DESCRIPTION

The project is located within Posey and Heth Townships. The study is focused on two areas with the potential for two boat ramps.

Harrison County wants to develop beyond just a boat ramp in the northern project area. Other amenities considered include a fishing area, a shelterhouse, a playground, restroom facilities, a walking path, sports fields, an amphitheater, a concessions area, and a camping area. Sites of 20 acres and over would be sufficient.

Harrison County is looking for a smaller development in the southern project area. Possible amenities would include a boat ramp, parking area, shelterhouse, and playground. Sites that are 20 acres in area and smaller should be sufficient.

1.04 PROJECT AREA

In the northern project area, Site 5 is recommended. Site 5 is 67.9 acres located immediately south of the intersection of SR 211 and SR 111. The parcel contains land area on the east and west side of SR 111 in Posey Township. The site has approximately 0.22 miles of shoreline and 0.22 miles of road frontage (SR 111).

In the southern project area, Site 10 is recommended. Site 10 is located in Mauckport off the corner of Main Street Southwest (SW) and 2nd Street SW. Three parcels make up this site: 0.9 acres, 0.9 acres and 1.0 acres. The site has approximately 0.13 miles of shoreline and 0.04 miles of road frontage (Main Street SW).

1.05 DEFINITIONS

ABA	Architectural Barriers Act
ADA	Americans with Disabilities Act
DAV	Disabled Veterans
DNR	Department of Natural Resources
HMA	hot mixed asphalt
IDEM	Indiana Department of Environmental Management
IDNR	Indiana Department of Natural Resources
LWCF	Land and Water Conservation Fund
Mauckport	Town of Mauckport, Indiana
O&M	operation and maintenance
SOBA	States Organization for Boating Access
SR	State Road
SW	Southwest
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USGS	United States Geological Survey

Figure 1.02-1 County Location

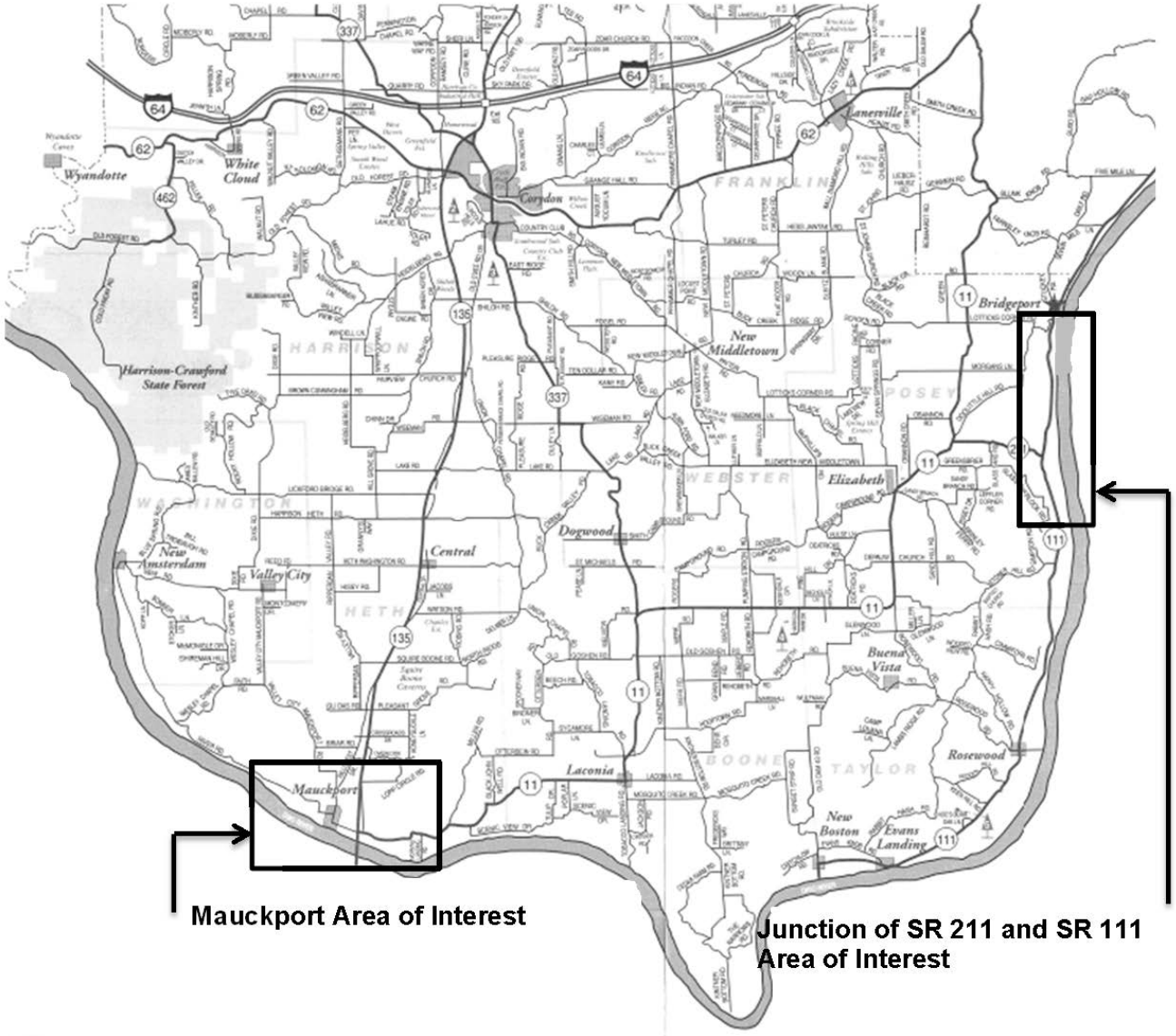


Figure 1.02-2 Areas of Interest

SECTION 2
EXISTING CONDITIONS

2.01 EXISTING CONDITIONS

Harrison County has 45 miles of shoreline along the Ohio River with only one public boat ramp for citizens to use. With 4,198 registered fishing licenses in Harrison County in 2010, and an additional 9,305 boaters registered in the immediate area (Floyd, Washington, and Crawford counties), a public boat ramp would not only grant river access to Harrison County citizens but also encourage those from the surrounding counties to visit.

Harrison County has seen an increase in population over the last decade and is expecting this trend to continue. With this trend in population comes a need for Harrison County to provide adequate outdoor recreational facilities for its citizens. In the Harrison County Parks and Recreation Master Plan for 2009 to 2013, one of the objectives is to study the feasibility of creating a park/boat ramp along the Ohio River.

In a study conducted by the Harrison County Economic Development Corporation and the Chamber of Commerce of Harrison County, 947 registered Harrison County businesses were asked to complete a community development and economic growth survey. The results from this survey showed that of the businesses surveyed, 23 percent strongly agreed and 34 percent agreed with the following statement:

> "Harrison County Boat Ramp: I would support the development of a public access boat ramp on the Ohio River in Harrison County."

Horseshoe Southern Indiana Casino is located just north of one proposed project location. This casino river boat has brought a large influx of tourists to the county and consequently increased commerce to the surrounding area.

2.02 EXISTING ACCESS FACILITIES

There are several public boat ramps within 50 miles of the project location on the Indiana and Kentucky side of the Ohio River. To gain a better understanding of what amenities and design considerations should be taken into account, an existing site study was made. Seven site visits were conducted on November 23, 2011, based on this study. Appendix B contains a copy of the study results.

From this study, positive and negative aspects were discovered. A ramp of adequate width and length in a nonturbulent area and oriented downstream is preferred. Loading and fishing piers, shelterhouses, and playgrounds/waterparks add to the enjoyment and aesthetic appeal of the facility. Many of the ramp locations were not well-maintained and appeared to be in poor shape. This often detracted from the overall experience, though people still used the facility because of a lack of other options.

The current boat ramp in Mauckport appears to suffer from debris buildup and lack of maintenance. There is not a sufficient parking lot, the existing boat ramp is narrow and too short, and no other amenities are available for boaters to use. Because of these inconveniences, this boat ramp is seldom used. More acreage would be required to develop it into a fully functioning boat ramp.

2.03 HISTORICAL DATA

The population of Harrison County was 39,364 in 2010, which is a 14.7 percent increase in population since 2000. The population shift from the Louisville Metropolitan area to Harrison County is the main reason for the population increase. Approximately 65 percent of Harrison County's population reside in its four northernmost townships. Another factor is the opening of Horseshoe Southern Indiana Casino. With these population increases, parks along the river would help improve the overall quality of life for Harrison County residents and could lead to an increase in tourism dollars for the southern one-half of Harrison County.

In 2011, 4,305 watercraft were registered in Harrison County and its surrounding three counties (Crawford, Washington, and Floyd). Floyd County had the most registrations with 1,801 watercraft. Harrison County was second with 1,281 watercraft registered. Washington and Crawford counties were third and fourth with 758 and 465 watercrafts, respectively. These numbers show the demand Harrison County has for a boat ramp in respect to its neighboring counties.

Fishing licenses sold in Harrison County declined in the past five years, according to historical license sales from 2006 though 2010. License sales to seniors (65 and older) and to Disabled Veterans (DAV) rose (see Figures 2.03-1 and 2.03-2). In 2010, seniors were able to buy a "Fish-For-Life" pass, meaning there will be a great decline of seniors purchasing licenses, but this will not likely change the amount of people who will utilize the boat ramp. License sales to youth (17 and under) and to adults (ages 18-64) declined (see Figures 2.03-3 and 2.03-4). However, starting in 2010, youth are not required to have a fishing license when fishing in Indiana public waters.

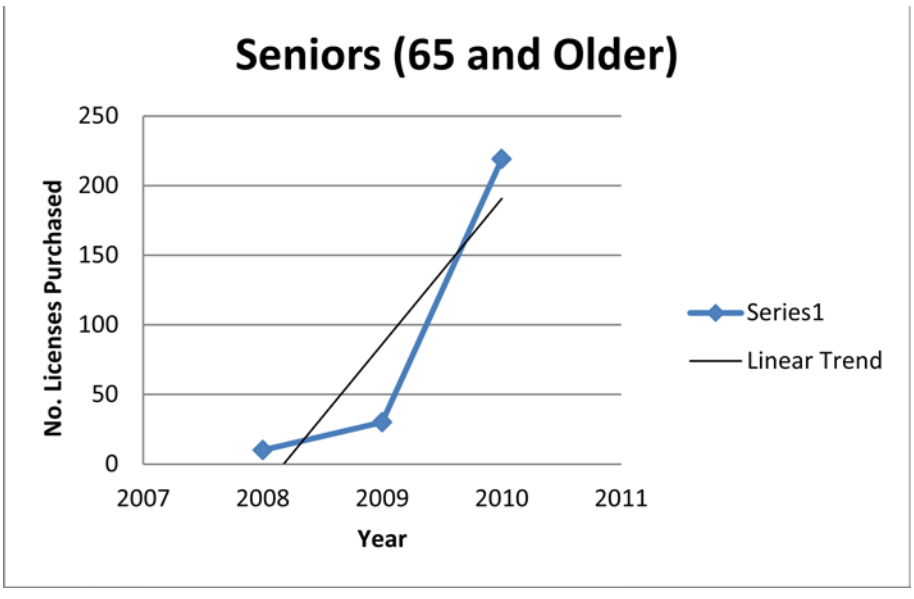


Figure 2.03-1 Senior Fishing Licenses

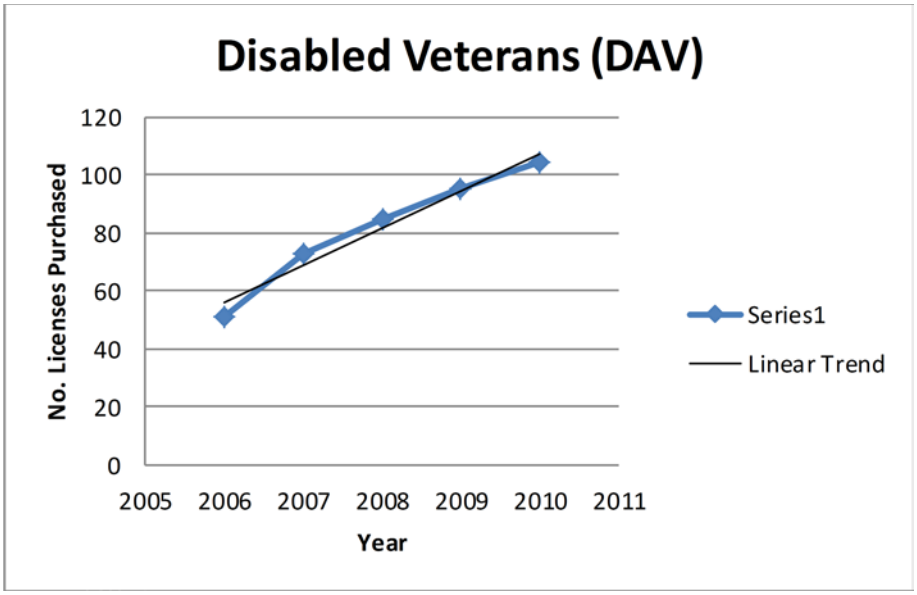


Figure 2.03-2 DAV Fishing Licenses

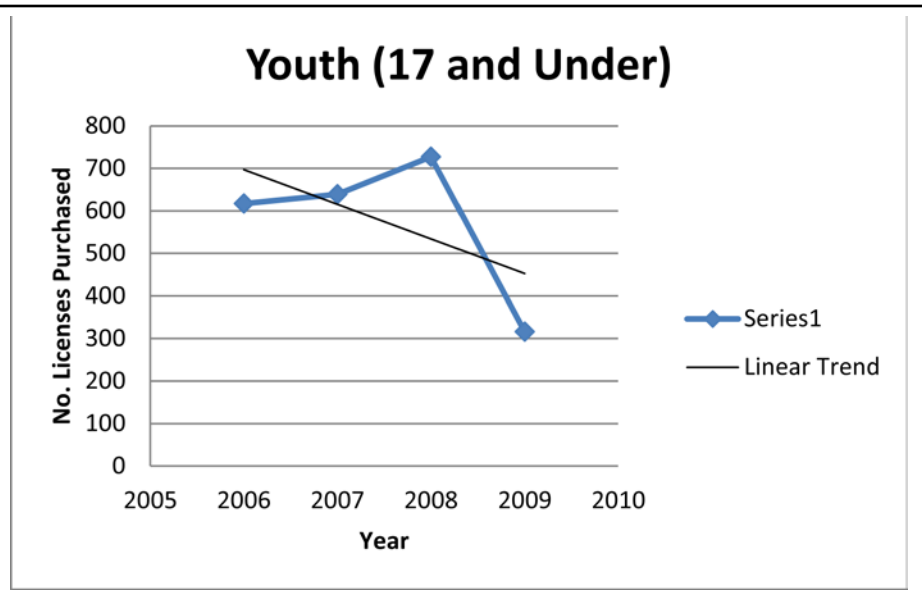


Figure 2.03-3 Youth Fishing Licenses

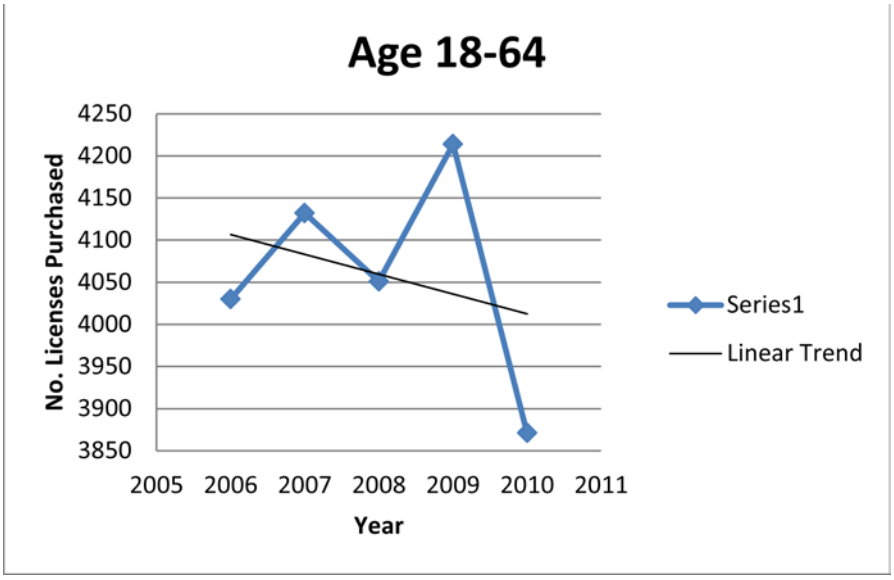


Figure 2.03-4 Adult Fishing Licenses

SECTION 3
EVALUATION OF ELEMENTS

3.01 EVALUATION OF ELEMENTS

Two areas of interest were evaluated to find potential public boat ramp sites. Within these areas, 29 sites were chosen based primarily on land area. It is desired that there be room for a parking area along with other amenities. See Appendix C for the initial sites.

Harrison County would like to develop beyond more than a boat ramp in the northern project area. Other amenities considered include a fishing area, shelterhouse, playground, restroom facilities, walking path, sports fields, an amphitheater, concessions area, and camping area. A camping area is especially significant as it could generate potential revenue. Campgrounds require more acreage and, therefore, a site with more than 40 acres is preferred. A campground in this area is especially nice because it is close to the Horseshoe Southern Indiana Casino and could possibly attract tourists traveling to and from the Casino to utilize the park and its facilities. A larger park would potentially attract more than boaters to the park and would provide a spot for community activities and events.

Harrison County is looking for a smaller development in the southern project area. Possible amenities would include a boat ramp, parking area, shelterhouse, and playground. This would provide citizens in this area a place to bring smaller children and to those traveling farther it would provide a boat ramp closer than those in Kentucky. Harrison County would also like to explore the option of a campground around the Mauckport area. The campground could help stimulate the local economy of Mauckport and encourage economic development in the area.

Accessibility requirements will need to be included for both the landside and waterside facilities in the design. Refer to the Americans with Disabilities Act (ADA)–Architectural Barriers Act (ABA) for the current design requirements.

As with all parks, there is the potential for vandalism. This issue could improve by building in a place that sees more traffic, adding lighting, and using vandal-resistant materials.

3.02 PROPERTY OWNER INPUT

Harrison County sent letters to property owners adjacent to the Ohio River. This letter invited property owners to provide feedback and indicate whether they wanted their property considered in the boat ramp site study. See Appendix D for a copy of the letter.

Harrison County received numerous responses, and the information was used to help narrow down the sites. Appendix D contains a summary of the responses. Citizens who responded that did not want their property considered were removed. Citizens that agreed to have their property considered were noted.

3.03 PROPOSED FACILITIES

The *SOBA Design Handbook for Recreational Boating and Fishing Facilities* was used to help understand the types of proposed facilities and their design constraints. *The Recreation Facility Design Guidelines*, published by the United States Department of the Interior, Bureau of Reclamation was also used to define recreational facilities.

A. Boat Ramp

A boat ramp is the main proposed facility for the two developments. One lane is generally enough to accommodate 50 launchings and 50 retrievals a day. Using SOBA as the main design manual, many design choices exist.

B. Loading Pier

Loading Piers can help expedite the loading and retrieval process. They provide a convenient place for users to load and unload their boats without blocking others from using the ramp. These add an aesthetic appeal to the location and are valued by users.

C. Make-Ready/Tie-Down/Wash-Down Area

A make-ready/tie-down area is meant to help expedite the boat launching process while being convenient for the user. Boaters have an area where they can prepare their craft for launch or tie it down for travel from the site. A wash-down area allows the boater to rinse the boat to help prevent transportation of invasive species from one waterway to the next. These facilities are generally recommended for sites that have parking for 25 vehicles or more and are generally appreciated by users.

D. Parking

Parking for the boat ramp should be situated as close to the ramp area as possible to make it easy and convenient for boaters using the facility. For facilities that see a high turnover with boaters parking for only part of a day, 20 to 30 parking spaces per launching lane are usually adequate. For facilities that see a lower turnover, 30 to 50 parking spaces per launching lane should be adequate. Pull-through spaces are more convenient for vehicles with trailers and, are therefore, preferred. The *SOBA Design Handbook for Recreational Boating and Fishing Facilities* provides design information on size and spacing of parking spots.

E. Restrooms

As a general rule, one toilet fixture for every 30 parking spaces should be provided. This number can differ based on state and local health regulations. There are several types of toilets. The county currently prefers vaulted toilets. The toilets should be located close to the ramp and parking area for ease of use and efficiency. Restrooms are often the target of vandals and, therefore, should be built using vandal-resistant material.

F. Lighting

Lighting discourages vandals and adds to the overall safety of the site. Users will appreciate these fixtures if they are using the facilities after dark. Lights have a continuing operating cost, and a photo eye would be needed to turn them on and off.

G. Shelterhouse/Picnic Table

Shelterhouses provide boaters and visitors with a place to eat, rest, and enjoy the environment. They add to the appeal and convenience of a location.

H. Camping

Campsites are a potential revenue source and allow visitors to stay longer. Campgrounds usually have two types of sites: (1) primitive (tent camping) and (2) modern (RV/motorhome camping). Primitive campsites are smaller and usually have a tent pad and living area, while the modern campsites do not necessarily need the tent pad and often include water and electricity hook-ups. The living area usually consists of a picnic table and firepit. Angled/pull-through parking for modern campsites is desired for ease of use. A combination of one-half primitive camping sites and one-half modern campsites would provide variety to users and is, therefore, preferred.

One cost-reducing approach is to designate one campsite for a “host camper.” The host camper would not pay a campsite fee in exchange for providing information and assistance to other campers and completing small cleaning tasks, therefore, eliminating the cost for full-time staff.

Restrooms located throughout the grounds are necessary, and an entrance station is generally favored. A centrally located dump station would be a necessary addition for RV/motorhome campers and would stop campers from dumping their waste in random areas and creating unpleasant places.

I. Playground/Spray Park

Playgrounds/spray parks provide a place for younger children to play while parents/guardians relax. A spray park is especially valuable in the summer when the weather is hot. This could also provide a boater with children on board a place to rest.

J. Sports Fields

Sports fields encourage healthy and active lifestyles and provide a place for communities to hold sporting events. This addition can be added after the construction with the help of the community. Soccer, football, basketball, tennis, softball, and sand volleyball are examples of common sports played.

K. Amphitheater

An amphitheater provides a place for community events and concerts to take place. These events often encourage community involvement. Green design elements such as grass seating are encouraged to limit Operation and Maintenance costs.

L. Trail

A trail, especially through a wooded area, encourages people with dogs and children to visit. This addition can be added after construction with the help of the community. There is the possibility of constructing a nature trail with informational signs.

M. Concessions

Incorporating concessions in the development could potentially stimulate the local economy. There is the potential for mobile vendors and possibly a privately funded restaurant. Having food available for those using the facilities can make their experience more convenient and more enjoyable.

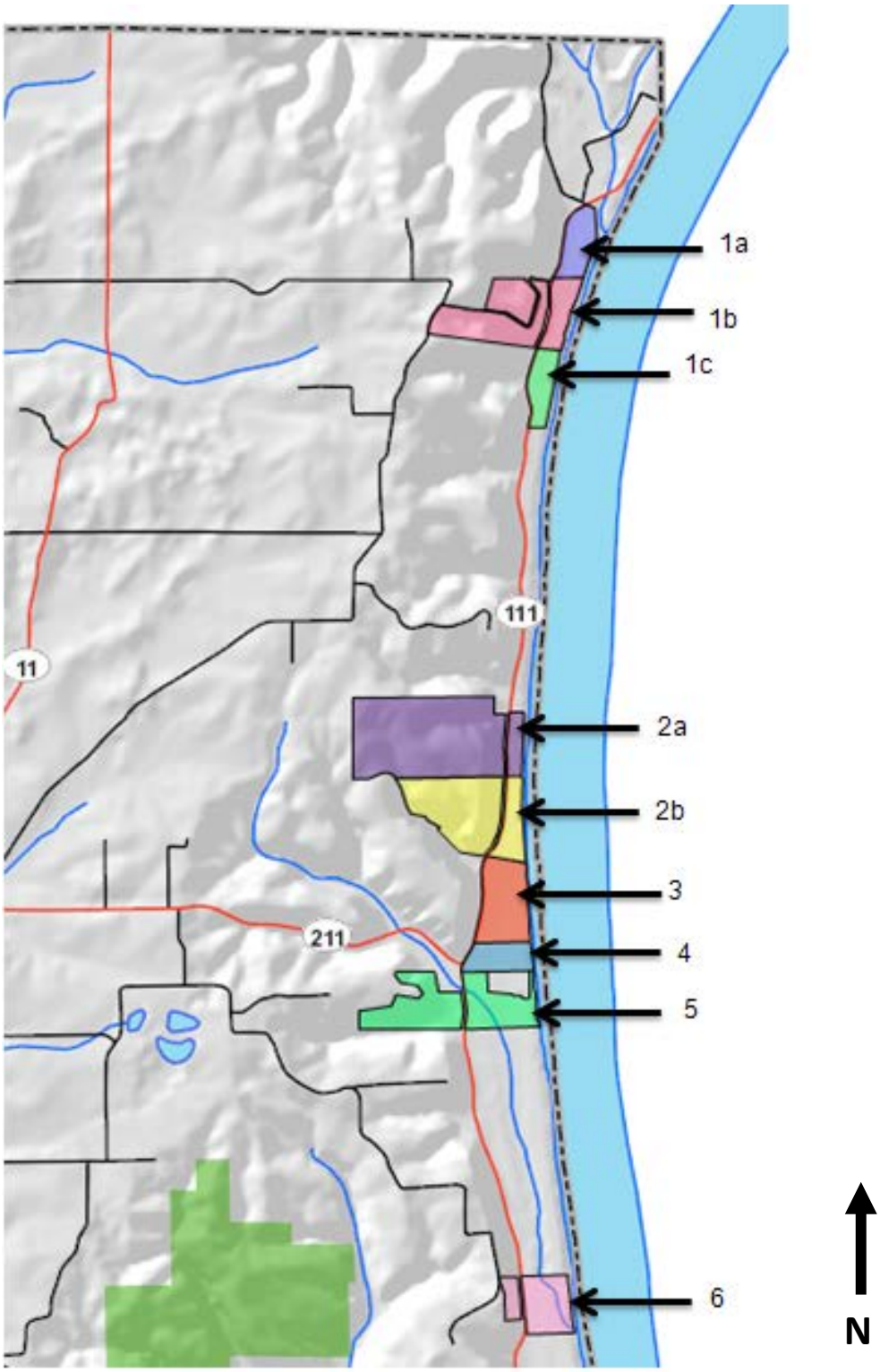
3.04 SITES AT THE JUNCTION OF SR 211 and SR 111

This interest area was chosen because of its proximity to major roadways. Elizabeth, Indiana, a town of 146 people, is about a four-mile drive. Horseshoe Southern Indiana Casino is located along SR 211 at the northern end of the project area. The casino is a main attraction in Harrison County, and visitors pass through the project area on their way to the casino. Also, the area is located at the end of a curve on the cutting side of the Ohio River. According to SOBA, in terms of current, this is the best location for a potential site.

Within the area of interest, every property that was over the necessary 20 acres was reviewed. Twelve sites were chosen to further investigate. See Figure 3.04-1 for a map of the sites.

Information was gathered to help gain a full understanding of the potential sites. Using geographical information system (GIS) maps and environmental resources, a study was done for each site focusing on things that would cause a site to have construction issues and maintenance problems. Wetland locations, floodplains, historic sites, river features, and mussel bed locations are examples of items investigated. See Appendix C for a summary of the results gathered.

Using the responses from the letters, land area, environmental impacts, and location of each site, the results were narrowed down.



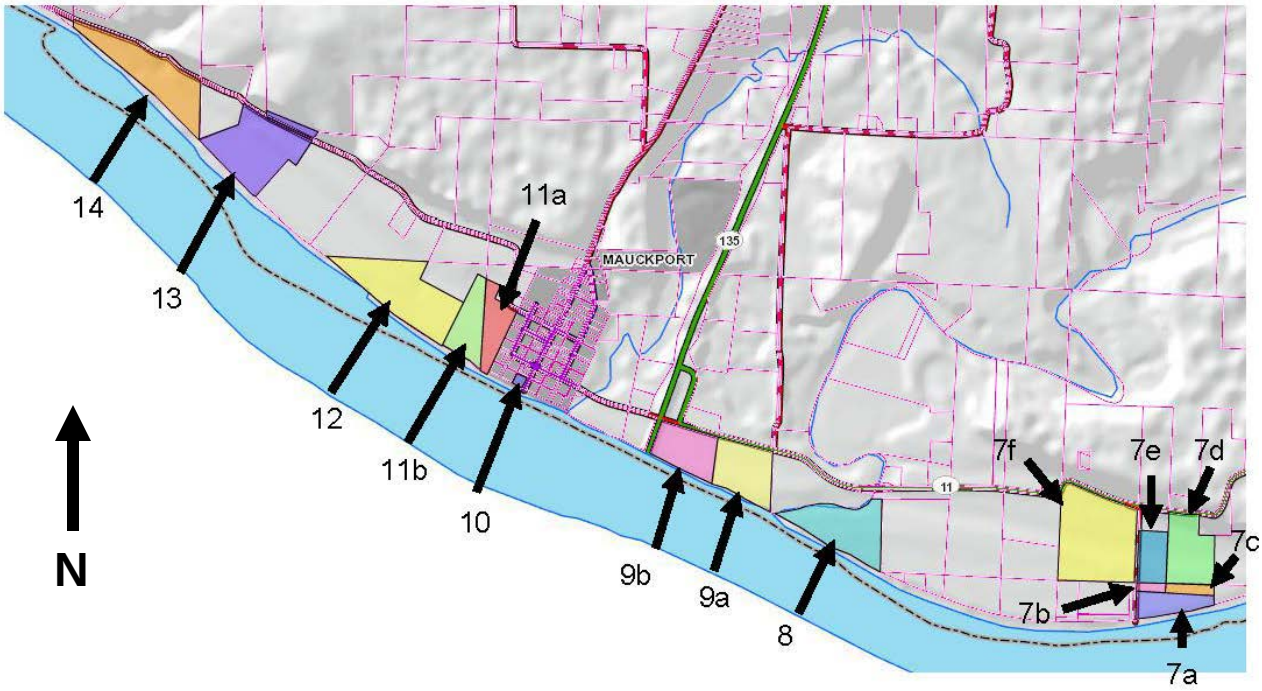
Harrison County Indiana GIS

Figure 3.04-1 Junction SR 211 and SR 111 Sites

3.05 SITES AT MAUCKPORT

This interest area was chosen because of the population in Mauckport and the bridge along SR 135 traveling to Kentucky. Mauckport, a town of 83, could see economic benefits from increased traffic if a boat ramp were located in the vicinity. The area is located along a relatively straight portion of the Ohio River.

Within the area of interest, properties that were 40.0 acres and under were investigated. Nine sites were chosen to investigate further. See Figure 3.05-1 for a map of the sites.



Source: Harrison County Indiana GIS

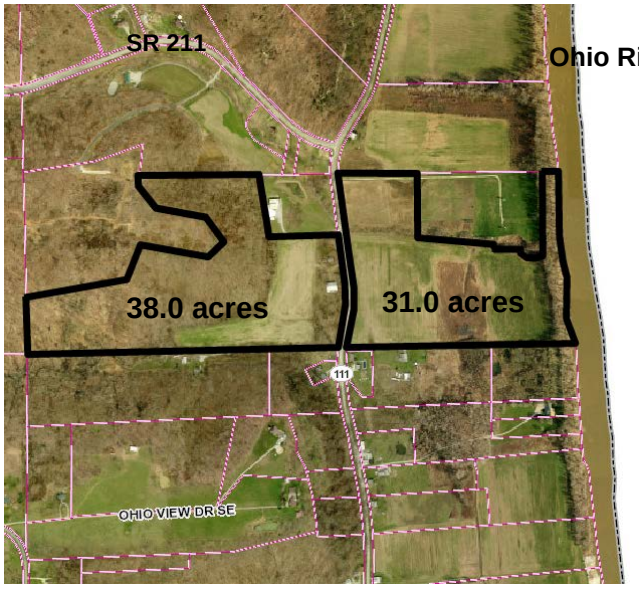
Figure 3.05-1 Mauckport Sites

Information was gathered about the sites to help gain a full understanding of the potential sites. Using GIS maps and environmental resources a study was done for each site focusing on things that could cause a site to have numerous construction issues and maintenance problems. Wetland locations, floodplains, historic sites, river features, and mussel bed locations are examples of items investigated. See Appendix C for a summary of the results gathered.

Using the responses from the letters, land area, environmental impacts, and location of each site, the results were narrowed down.

3.06 SITE RECOMMENDATIONS

The recommended site for the Junction of SR 211 and SR 111 project area is Site No. 5. Site No. 5 is located immediately south of the intersection of SR 211 and SR 111. The parcel is split by SR 111 leaving 31.0 acres directly along the river and 38.0 acres on the other side of SR 111. The acreage is classified as 85.6 percent woodland and 14.4 percent is tillable land. The site has approximately 0.22 miles of shoreline and 0.22 miles of road frontage (SR 111). Therefore, the site contains ample footage of both road access and river access. See Figure 3.06-1 for a view of the parcel.



Source: Harrison County Indiana GIS

Figure 3.06-1 Site No. 5 Parcel View

The owners, Burl, Doris, and Sandy Hoke, will consider selling their property. Electricity is currently the only public utility servicing this property. There are four buildings, one but possibly two that Harrison County would like to consider restoring. There are no known wetlands through this site or other environmental impacts. Site No. 4, located immediately north of Site No. 5, would be available for future planned improvements, if necessary.

The 38.0 acres of property on the other side of SR 111 would be a good area to add a campground and possible concessions area. It would separate the activity of the boat ramp and the campground. The back one-half of the parcel rises rapidly and would not be practical for camping. However, about a one-mile-long trail could potentially be added and would provide recreation for campground users. The 31.0 acres next to the river would provide room for a boat ramp, parking area, shelter-house, playground, and any other planned facility.

A potential site design was designed to establish possible main facility locations. It features pull-through parking spots, a make-ready/tie-down area, wide boat ramp, two sports fields with additional parking, a camping area, restrooms, playground area, and room for concessions. There

is room for a walking trail behind the campground, though the path of the trail will depend on terrain and slope. See Figure 3.06-2 for a drawing of the potential site design. See Figures 3.06-3 and 3.06-4 for a closer look at the Boat Ramp portion and Campground portion of Site No. 5.

The recommended sites for the Mauckport project area are Site Nos. 10 and 11. Site No. 10 is located immediately in Mauckport and includes the existing public boat ramp. The site would potentially be comprised of three parcels: 0.9, 0.9, and 1.0 acres, creating a site of 2.8 acres; 53.6 percent of the acreage is classified as woodland, while the remaining 46.4 percent is tillable land. See Figure 3.06-5 for a view of the parcel. The site has approximately 0.13 miles of shoreline and 0.04 miles of road frontage (Main Street SW), providing sufficient river access; however, the road access is limited.

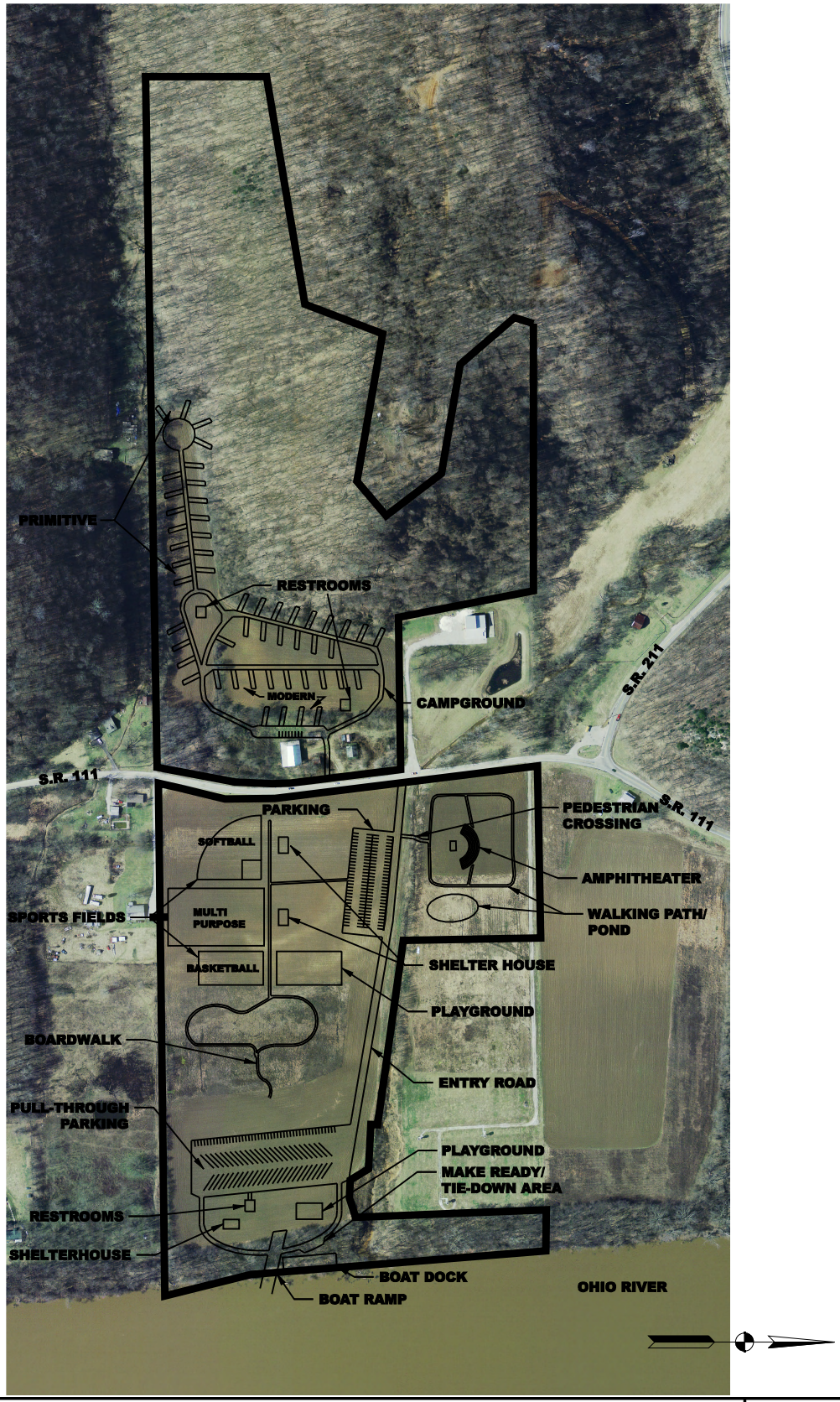
Source: Harrison County Indiana GIS

Figure 3.06-5 Site No. 10 Parcel View

Stanley Kingsley is the owner of the southern two parcels. Mr. Kingsley expressed his support for the boat ramp. The southernmost property has water and electric public utility service and one structure. There are no known wetlands through this site or other environmental impacts.

The Town of Mauckport is the owner of the northernmost parcel. No public utilities are currently available for the property. There are no known wetlands through this site or other negative environmental impacts.

The area from this site would allow room for a boat ramp, parking lot, and possibly a few smaller developments. A potential site design was drawn to establish possible facility locations. It features pull-through parking spots, a wide boat ramp, additional parking, and restrooms. There is room for an addition such as a playground. See Figure 3.06-6 for a drawing of the potential site design.



JUNCTION SR 111 AND SR 211 SITE
POTENTIAL SITE NO. 5 DESIGN
BOAT RAMP SITE STUDY
HARRISON COUNTY, INDIANA

STRAND ASSOCIATES®

FIGURE 3.06-2
4055.005

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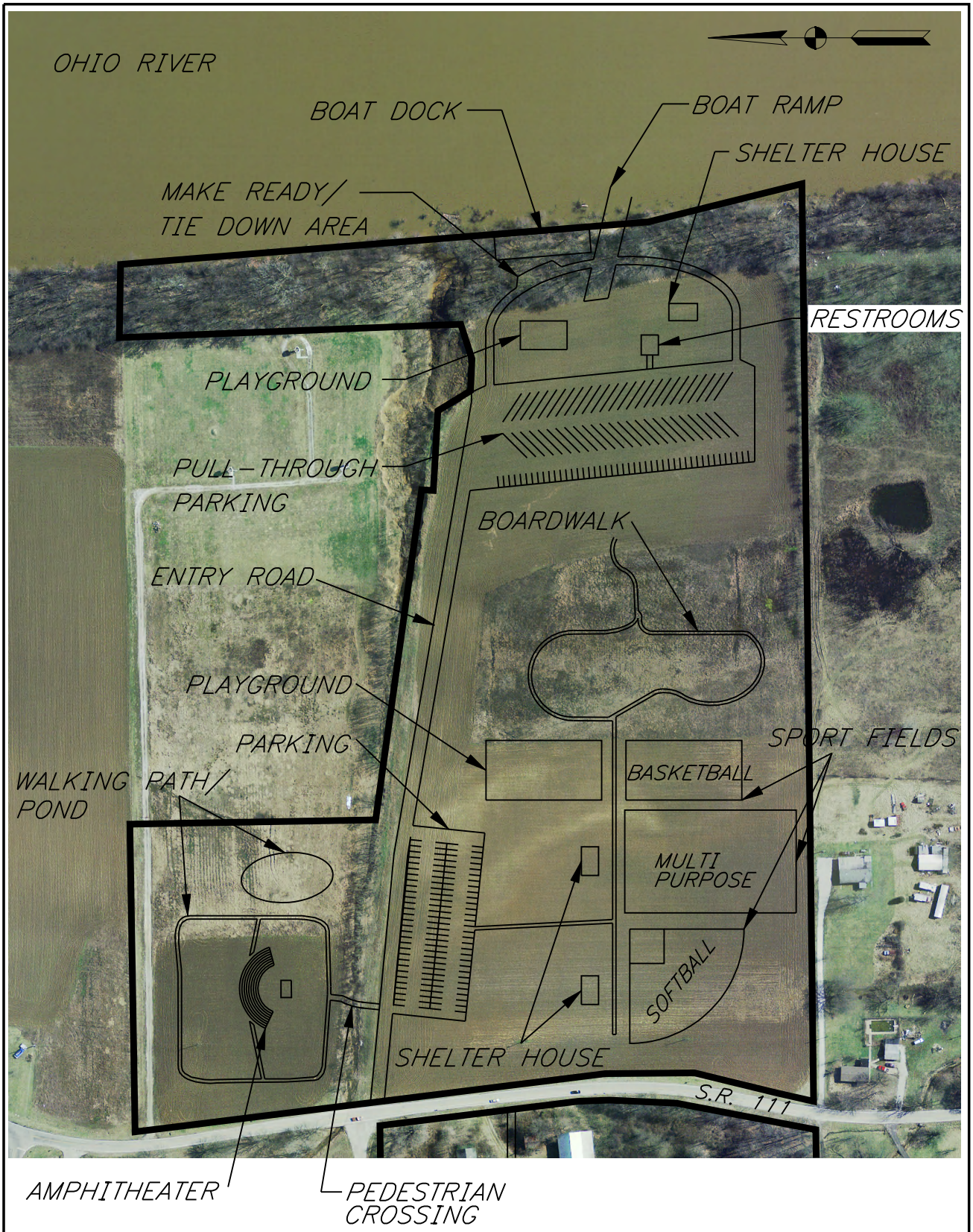

JUNCTION SR 111 AND SR 211 SITE
POTENTIAL SITE NO. 5 DESIGN: BOAT RAMP SIDE
BOAT RAMP SITE STUDY
HARRISON COUNTY, INDIANA

STRAND ASSOCIATES®

FIGURE 3.06-3
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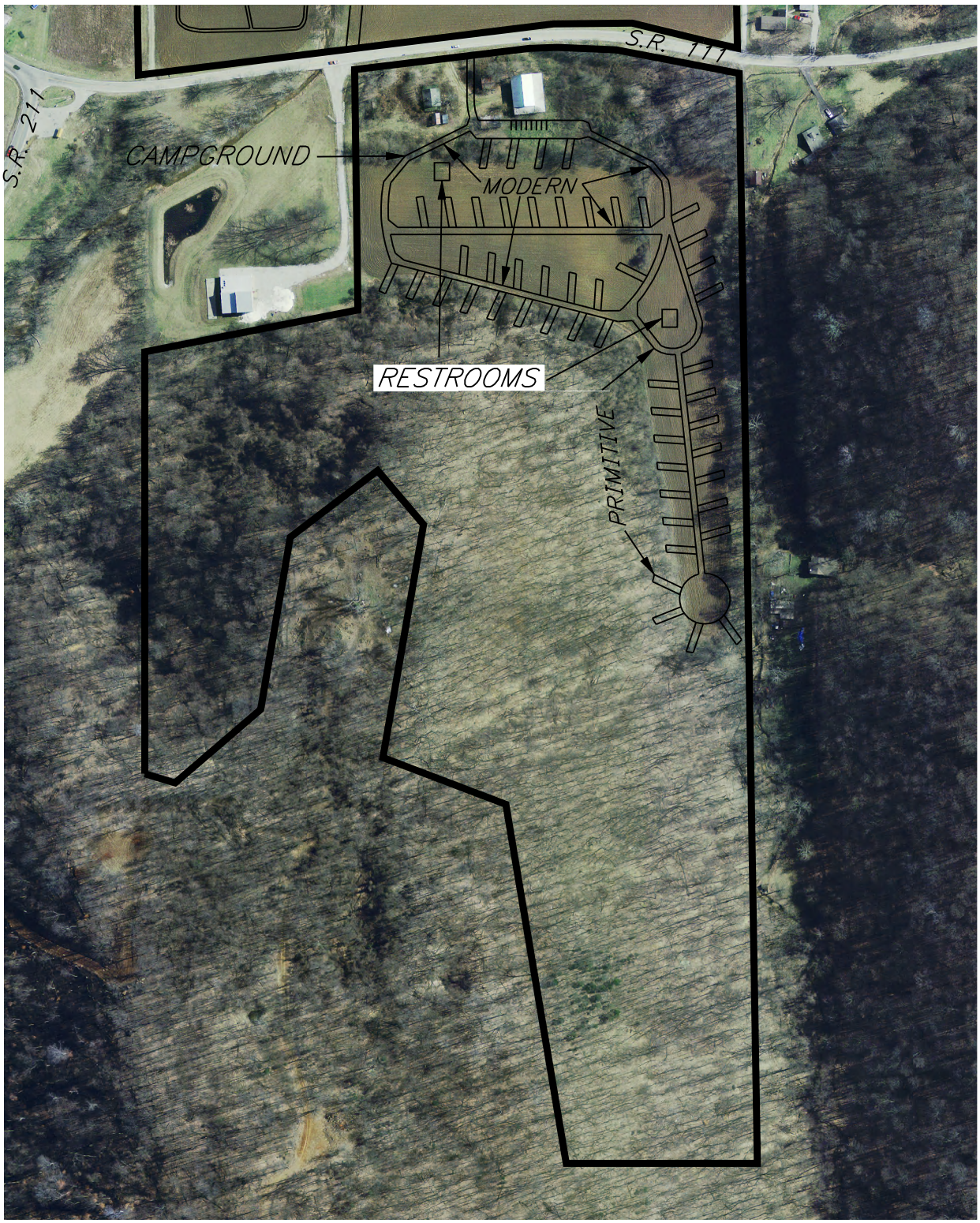

JUNCTION SR 111 AND SR 211 SITE
POTENTIAL SITE NO. 5 DESIGN: CAMPGROUND SIDE
BOAT RAMP SITE STUDY
HARRISON COUNTY, INDIANA

STRAND ASSOCIATES®

FIGURE 3.06-4
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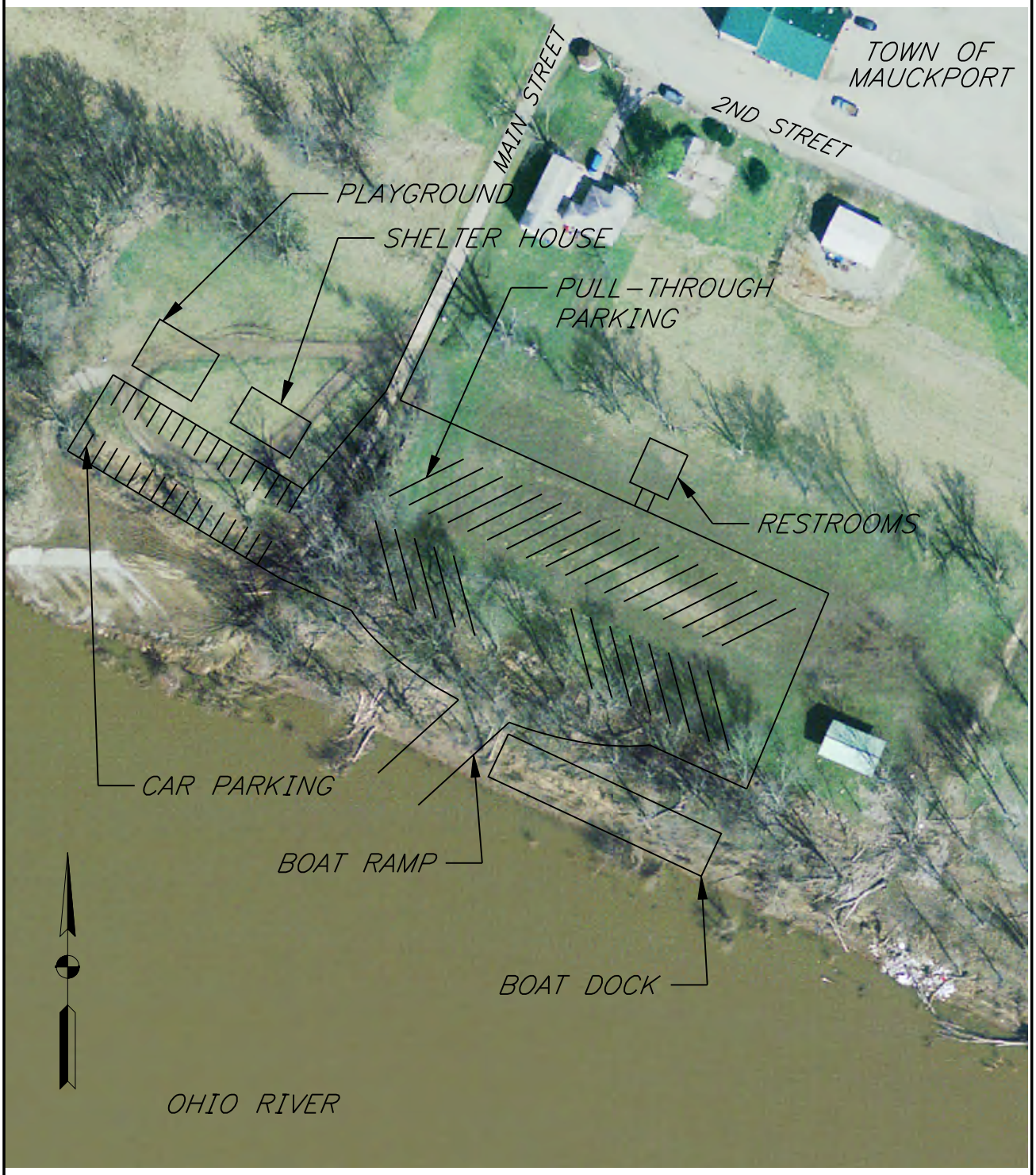

MAUCKPORT SITE
POTENTIAL SITE NO. 10 DESIGN
BOAT RAMP SITE STUDY
HARRISON COUNTY, INDIANA

STRAND ASSOCIATES®

FIGURE 3.06-6
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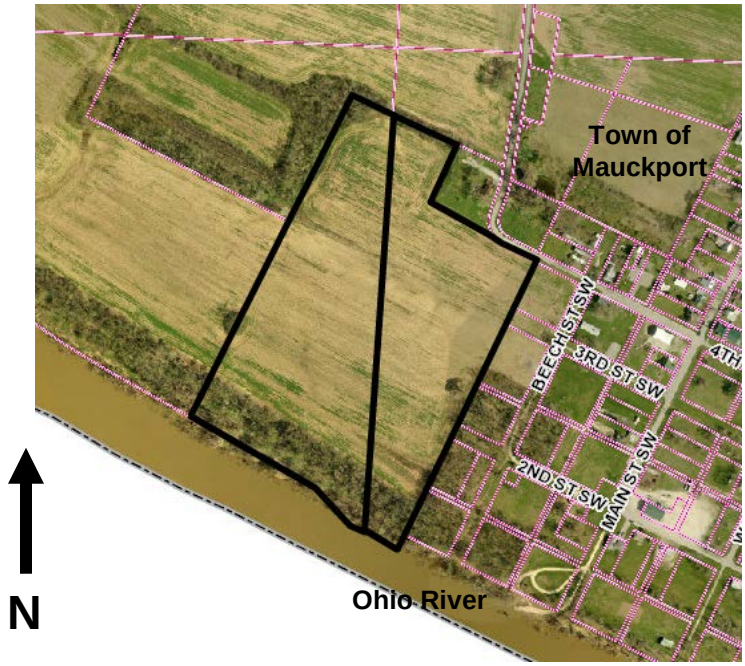
Site Nos. 11 a/b are located immediately west of Mauckport. The site is comprised of two parcels: 13.0 and 14.8 acres, creating a site of 27.8 acres. The acreage is classified as 16.1 percent woodland, while the remaining 83.9 percent is tillable land. See Figure 3.06-7 for a view of the parcel. The site has approximately 0.18 miles of shoreline and 0.04 miles of road frontage (4th Street), providing sufficient river access; however, the road access is limited.



Source: Harrison County Indiana GIS

Figure 3.06-7 Site Nos. 11 a/b Parcel View

The owner, Joanne Timberlake, expressed interest in selling her property, which is recommended as a campground site. The site could feature campsites, a playground, a sports field, check-in area, restroom facility, dump station, small parking lot, and an access road. See Figure 3.06-8 for a drawing of the potential site design.

3.07 SITES OF NOTICE

Site Nos. 9 a/b are located southeast of Mauckport just after the bridge. With the proximity to Mauckport, and abundant shoreline, this would be an option for an Agricultural Park and Marina Site. This development is something that Harrison County would like to explore as a way to bring economic expansion to the area. See Figure 3.07-1 for a parcel view of Site Nos. 9 a/b.

SITE 11
POTENTIAL SITE NO. 11 DESIGN
BOAT RAMP SITE STUDY
HARRISON COUNTY, INDIANA

STRAND ASSOCIATES®

FIGURE 3.06-8
4055.005

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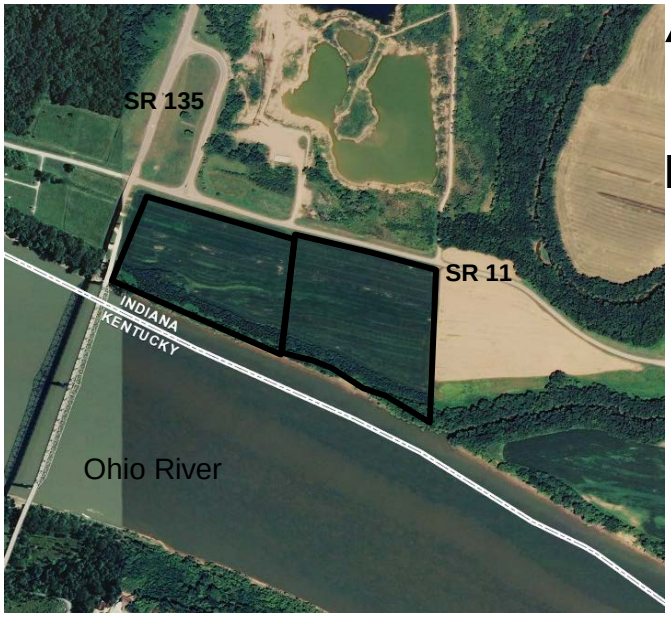
Site No. 9 is comprised of two parcels, 19.0 and 22.0 acres, creating a site of 41.0 acres. The acreage is classified as 7.2 percent woodland, 92.5 percent tillable land, and 0.3 percent as farm pond. The site has approximately 0.46 miles of shoreline and 0.39 miles of road frontage (Old Hwy 11). There are currently no structures on the properties and no public utilities serve the parcels.



Source: Harrison County Indiana GIS

Figure 3.07-1 Site Nos. 9 a/b Parcel View

3.08 PUBLIC INFORMATION MEETING

A public information meeting was held on June 20, 2012, at 7 P.M. at the Harrison County Government Center. Harrison County residents, county officials and consultants from Strand Associates, Inc.® discussed the project and the findings as defined in the Boat Ramp Site Study Report. An informal question and answer session followed. The meeting was well attended and the presentation was met with positive reception and feedback. Appendix D includes the meeting agenda, the meeting register, a news article, and comments received from attendants.

SECTION 4
EVALUATION OF ENVIRONMENTAL IMPACTS

4.01 100-YEAR FLOODPLAINS

The proposed boat ramp sites are located within the Ohio River's 100-year floodplain. In order to obtain the proper permits, a hydraulic model would need to be created to prove to Indiana Department of Natural Resources (IDNR) that the floodplains will not be affected by the proposed improvements. Appendix A includes copies of the appropriate Harrison County Flood Insurance Rate Map.

4.02 WETLAND AND RIVER MANAGEMENT

It is anticipated that there will be no negative impacts to wetlands during the construction of the proposed project. The appropriate permits from the Indiana Department of Environmental Management (IDEM), IDNR, and United States Army Corps of Engineers (USACE) would be needed for the proposed project.

The USACE has jurisdiction over any construction performed on the Ohio River. If the decision is made to construct a boat ramp along the river, a Section 404 permit must first be obtained from the USACE. The USACE will want to ensure that the proposed project will not have any negative impacts to the Ohio River.

Before construction can begin, a Construction in a Floodway permit will be needed from IDNR. As mentioned, the entire proposed project sites are located within the Ohio Rivers' 100-year floodplain. Therefore, a permit is needed to ensure that the proposed construction will not have any negative impacts on the floodplain. The permit's jurisdiction includes the river's watershed, the local fish and wildlife, and the historical significance of the area. The permit would have to be analyzed by the Divisions of Water, Fish and Wildlife, and Historic Preservation Departments of the IDNR.

A Section 401 Water Quality Certification permit would have to be obtained from IDEM as part of the Section 404 permit. The permit is required because the proposed project is located within the Ohio River watershed. The permit makes certain that the proposed project will not adversely affect the watershed or any water flowing into the river or water table.

A Rule 5 permit would be required from IDEM. This permit enforces erosion control. It ensures that land outside the project area will not be adversely affected by excessive runoff or excessive sediment deposits.

4.03 HISTORICAL, ARCHITECTURAL, AND ARCHAEOLOGICAL SITES

According to the Harrison County Interim Report, there are five known historical or architectural sites located in the vicinity of the project areas. Figures 4.03-1 and 4.03-2 illustrate these sites with respect to the proposed areas of interest on the appropriate historical map. Table 4.03-1 provides a description of each historical site. The significance of each inventory entry was evaluated in terms of its history, architecture, environment, and integrity, and then placed in one of three general categories: outstanding (O), notable (N), or contributing (C). This evaluation was taken from the Harrison County, *Indiana Historic Sites and Structures Inventory Interim Report of 1987*.

Region	No.	Rtg.	Description
Heth Township	017	C	**Cemetery**, River Road; 1837-1920
Heth Township	018	C	**House**, River Road; Carpenter-Builder, c. 1870
Posey Township	008	N	**McCarthy House**, SR 111; Italianate, c. 1875
Posey Township	009	O	**Riverside United Brethren Church**, SR 111; Greek Revival/Italianate, c. 1872
Posey Township	010	N	**Glazes School**, SR 111; Carpenter-Builder, c. 1880

Table 4.03-1 Interim Report Listings

There is always the potential for Native American artifacts on the site, which are often present along the river. A study must be conducted by an accredited archaeologist to ascertain the presence or nonpresence of such artifacts.

4.04 ISSUES TO CONSIDER

The Indiana bat is known to roost in southern Indiana and, therefore, no trees suitable for Indiana bat roosting (greater than 3 inches in diameter at breast height, living or dead, with loose hanging bark) should be cut from April 1 through September 30. By minimizing the amount of trees that are to be cut down, this issue can be avoided.

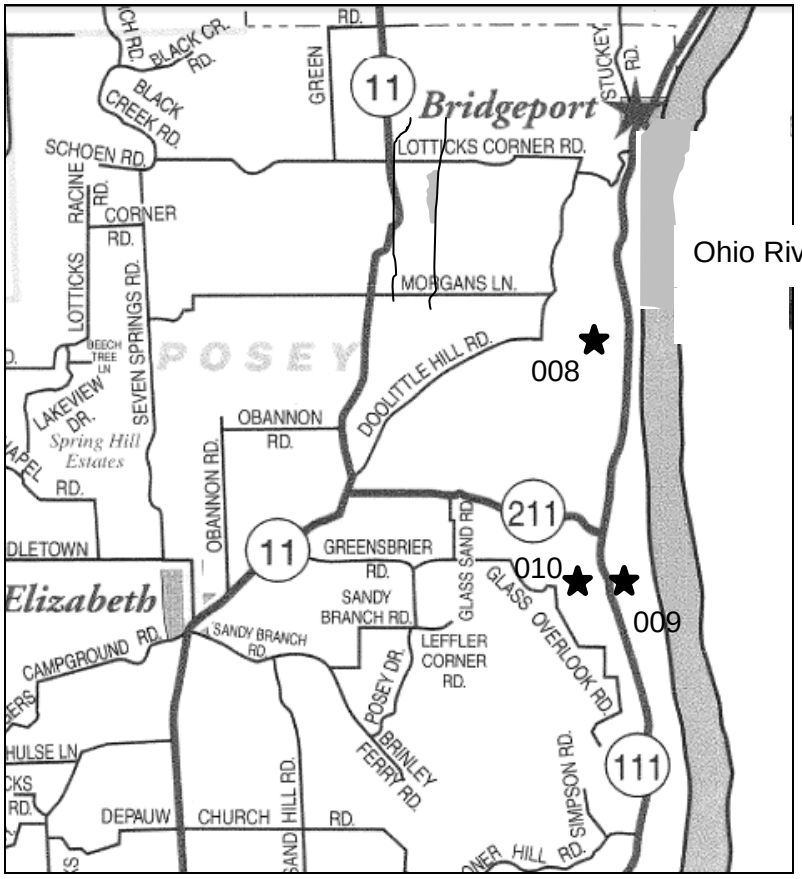
4.05 COMMENTS FROM REGULATORY AGENCIES

Early Coordination/Environmental Assessment through the IDNR has been completed for the recommended sites. Appendix C contains letters that were provided by IDNR and indicate the response to its evaluation of the environmental impacts associated with the proposed boat ramp.

According to the IDNR Early Coordination/Environmental Assessment, Site No. 5 has one animal species (Ohio Pigtoe) which is a special concern, three state endangered plant species (Illinois Blackberry, Downy Gentian, and Long-awn Hairgrass), and one state rare plant species (Golden Alexanders) documented within one-half mile of the site. The Division of Nature Preserves anticipates few impacts to these species resulting from the boat ramp. The United States Fish and Wildlife Service recommends avoiding impacts to the creek flowing through the site and minimizing impacts to the Ohio River's forested riparian corridor.

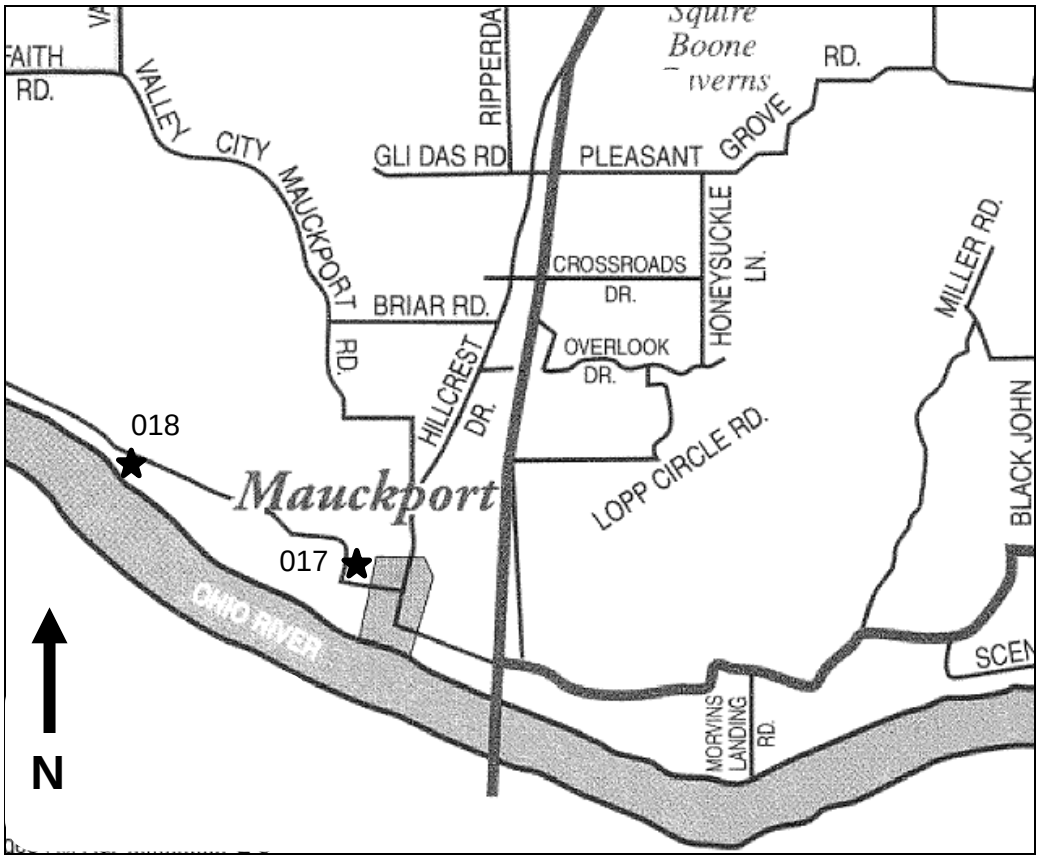
Site No. 10 has two state endangered animal species (Peregrine Falcon and Allegheny Woodrat) and one state endangered plant species (Bottomland Broomrape) documented within one-half mile of the site. The Division of Nature Preserves recommends the proposed boat ramp be constructed on the previously disturbed site to reduce impacts. The United States Fish and Wildlife Service does not foresee any impacts to these species and recommends minimizing impacts to the Ohio River's forested riparian corridor.

For both sites, a smooth surface along the banks could be provided by using open-celled concrete block mats instead of riprap for bank armoring, and revegetating the area with native herbaceous species.



Source: Harrison County Interim Report

Figure 4.03-1 Posey Township Historical Map



Source: Harrison County Interim Report

Figure 4.03-2 Heth Township Historical Map

SECTION 5
FUNDING

5.01 FUNDING

One possible source of funding for this project is through the Land and Water Conservation Fund (LWCF). This program provides grants for 50 percent of the cost for the acquisition or development of outdoor recreation sites and facilities. The park board must have its matching share of the project available before project rating. This grant is available only to park and recreation boards established under Indiana Law with an approved current five-year master plan for parks and recreation. Harrison County has a current IDNR-approved master plan and is therefore eligible under that criteria.

The application must be postmarked not later than June 1 in order to be considered for the grant. The LWCF manual gives guidance for report completion. The rating criteria portion of the application is deemed the most important and should, therefore, be thorough and detailed.

The LWCF grant process usually takes one year to complete. Acquisition of land or construction of facilities cannot begin until federal approval is obtained.

The Harrison County Community Foundation is another possible source of funding. This organization is funded by contributions from Horseshoe Southern Indiana Casino and members of the community. These grants are available to not-for-profit agencies serving Harrison County. There is no limit on the amount of funding requested. However, grants over $200,000 are considered “Signature Grants” and are processed differently then regular grants. These Signature Grant requests are only accepted between November 1 and December 15 for funding in the following calendar year.

The Sportfish Restoration Federal Grant Program contains money that is allocated each year for public access opportunities. According to the Public Access Coordinator of the Division of Fish and Wildlife, a boat ramp on the Ohio River would qualify for grants under this program.

The Harrison County Emergency Management Agency was also contacted regarding the project and possible funding. There is currently no available funding but the Harrison County Emergency Management Agency would support the addition of two boat ramps along Harrison County’s southern boarder.

SECTION 6
OPINION OF PROBABLE COST

6.01 OPINION OF PROBABLE COST

Two sites are recommended for a public boat ramp. Site No. 5 is located immediately south of the Junction of SR 211 and SR 111. Site No. 10 is located immediately in the town of Mauckport. Site No. 11 is also recommended for a campground.

Site No. 5 features angled/pull-through parking spots, a make-ready/tie-down area, a wide boat ramp, two sports fields with additional parking, a camping area, restrooms, a shelter house, a playground area, and room for concessions. The parking area and roads were priced assuming 1-inch hot mixed asphalt (HMA) surface, 2-inch HMA intermediate, 10-inch compacted aggregate, and the necessary excavation. A summary of the costs for the Boat Ramp portion of site 5 is included in Table 6.01-1, a summary of the costs for the Campground portion of site 5 is included in Table 6.01-2.

Site No. 10 includes pull-through parking spots, a wide boat ramp, additional parking, a shelter house, a playground and restrooms. The parking area and roads were priced assuming 1-inch HMA surface, 2-inch HMA intermediate, 10-inch compacted aggregate, and the necessary excavation. A summary of the costs for this site is included in Table 6.01-3.

Site No. 11 will include a restroom, a small parking lot, an access road and camping sites. The parking area and roads were priced assuming 1-inch HMA surface, 2-inch HMA intermediate, 10-inch compacted aggregate, and the necessary excavation. A summary of the costs for this site is included in Table 6.01-4.

County representatives can review the probable costs, and have the ability to mix and match different facilities.

These facilities will see Operation and Maintenance (O&M) costs throughout their use. The boat ramp and other facilities will need to be maintained to ensure they remain useful to users. The restrooms and dumping stations will require pumping, and any trash receptacles need frequent pick-ups. A summary of the O&M costs for each site can be seen in Tables 6.01-5 to 6.01-7. Parking lots and roads will be included in the County Road System and will, therefore, be maintained by the County Highway Department.

Cost Item	Units	Quantities	Unit Price	Total Price
Boat Ramp	LS	1	$50,000.00	$ 50,000.00
Boat Dock	EA	1	$50,000.00	$ 50,000.00
Parking Lot (Upper)	Ton	3411	$ 34.00	$ 115,974.00
Parking Lot (Lower)	Ton	7286	$ 34.00	$ 247,724.00
Access Road (Boat Ramp Side)	Ton	3143	$ 34.00	$ 106,862.00
Shelter House	EA	3	$25,000.00	$ 75,000.00
Picnic Table	EA	4	$ 1,500.00	$ 6,000.00
Restrooms	EA	2	$30,000.00	$ 60,000.00
Benches	EA	2	$ 800.00	$ 1,600.00
Trash Receptacle	EA	2	$ 800.00	$ 1,600.00
Grill	EA	1	$ 300.00	$ 300.00
Playground	EA	1	$15,000.00	$ 15,000.00
Multi-Purpose Sports Field	EA	1	$20,000.00	$ 20,000.00
Sports Field (Basketball)	EA	1	$25,000.00	$ 25,000.00
Sports Field (Softball)	EA	1	$34,300.00	$ 34,300.00
Amphitheater	EA	1	$25,000.00	$ 25,000.00
Subtotal				**$ 834,360.00**
Construction Contingency (30%)				$ 250,308.00
Subtotal, Construction Total				**$1,084,668.00**
Land Cost	/Acre	69.2	6,000.00	$ 415,200.00
Non-Construction Cost (25%)				$ 374,967.00
Total Estimated Project Cost				**$1,874,835.00**

Table 6.01-1 Site No. 5 Boat Ramp Opinion of Probable Cost Summary

Cost Item	Units	Quantities	Unit Price	Total Price
Parking Lot (Campground)	Ton	675	$ 34.00	$ 22,950.00
Access Road (Campground Side)	Ton	3003	$ 34.00	$ 102,102.00
Restrooms	EA	2	$30,000.00	$ 60,000.00
Campground	/SITE	25	$15,000.00	$ 375,000.00
Subtotal				**$ 560,052.00**
Construction Contingency (30%)				$ 168,016.00
Subtotal, Construction Total				**$ 728,068.00**
Non-Construction Cost (25%)				$ 182,017.00
Total Estimated Project Cost				**$ 910,085.00**

Table 6.01-2 Site No. 5 Campground Opinion of Probable Cost Summary

Cost Item	Units	Quantities	Unit Price	Total Price
Boat Ramp	LS	1	$ 50,000.00	$ 50,000.00
Boat Dock	EA	1	$ 50,000.00	$ 50,000.00
Parking Lot	Ton	5759	$ 34.00	$ 195,806.00
Access Road	Ton	94	$ 34.00	$ 3,196.00
Shelter House	EA	1	$ 25,000.00	$ 25,000.00
Restrooms	EA	1	$ 30,000.00	$ 30,000.00
Playground	EA	1	$ 15,000.00	$ 15,000.00
Subtotal				**$ 369,002.00**
Construction Contingency (30%)				$ 110,701.00
Subtotal, Construction Total				**$ 479,703.00**
Land Cost	/Acre	2.8	$ 6,000.00	$ 16,800.00
Non-Construction Cost (25%)				$ 124,126.00
Total Estimated Project Cost				**$ 620,629.00**

Table 6.01-3 Site No. 10 Opinion of Probable Cost Summary

Cost Item	Units	Quantities	Unit Price	Total Price
Parking Lot	Ton	2045	$ 34.00	$ 69,531.00
Access Road	Ton	5528	$ 34.00	$ 187,955.00
Restrooms	EA	1	$ 30,000.00	$ 30,000.00
Campground	/Site	20	$ 15,000.00	$ 300,000.00
Trash Receptacle	EA	2	$ 800.00	$ 1,600.00
Subtotal				**$ 589,086.00**
Construction Contingency (30%)				$ 176,726.00
Subtotal, Construction Total				**$ 765,811.00**
Land Cost	/Acre	28.8	$ 6,000.00	$ 172,800.00
Non-Construction Cost (25%)				$ 234,653.00
Total Estimated Project Cost				**$1,173,264.00**

Table 6.01-4 Site No. 11 Opinion of Probable Cost Summary

Cost Item	Units	Quantities	Unit Price	Total Price
Boat Ramp Maintenance	/Year	2	$ 1,000.00	$ 2,000.00
Access Road Maintenance	/Year	2	$ 1,000.00	$ 2,000.00
Restrooms Maintenance/Pumping	/Year	12	$ 200.00	$ 2,400.00
Campground Pumping	/Year	12	$ 200.00	$ 2,400.00
Campground Electricity	/Year	1	$ 5,000.00	$ 5,000.00
Trash Pickup	/Year	24	$ 50.00	$ 1,200.00
Lighting	/Year	12	$ 500.00	$ 6,000.00
Mowing (Sport Fields)	/Year	8	$ 200.00	$ 1,600.00
Mowing (Campground)	/Year	8	$ 200.00	$ 1,600.00
Amphitheater Maintenance	/Year	6	$ 500.00	$ 3,000.00
General Maintenance (Shelterhouse, Picnic Tables, etc.)	/Year	2	$ 500.00	$ 1,000.00
Total				**$ 28,200.00**

Table 6.01-5 Site No. 5 O&M Opinion of Probable Cost Summary

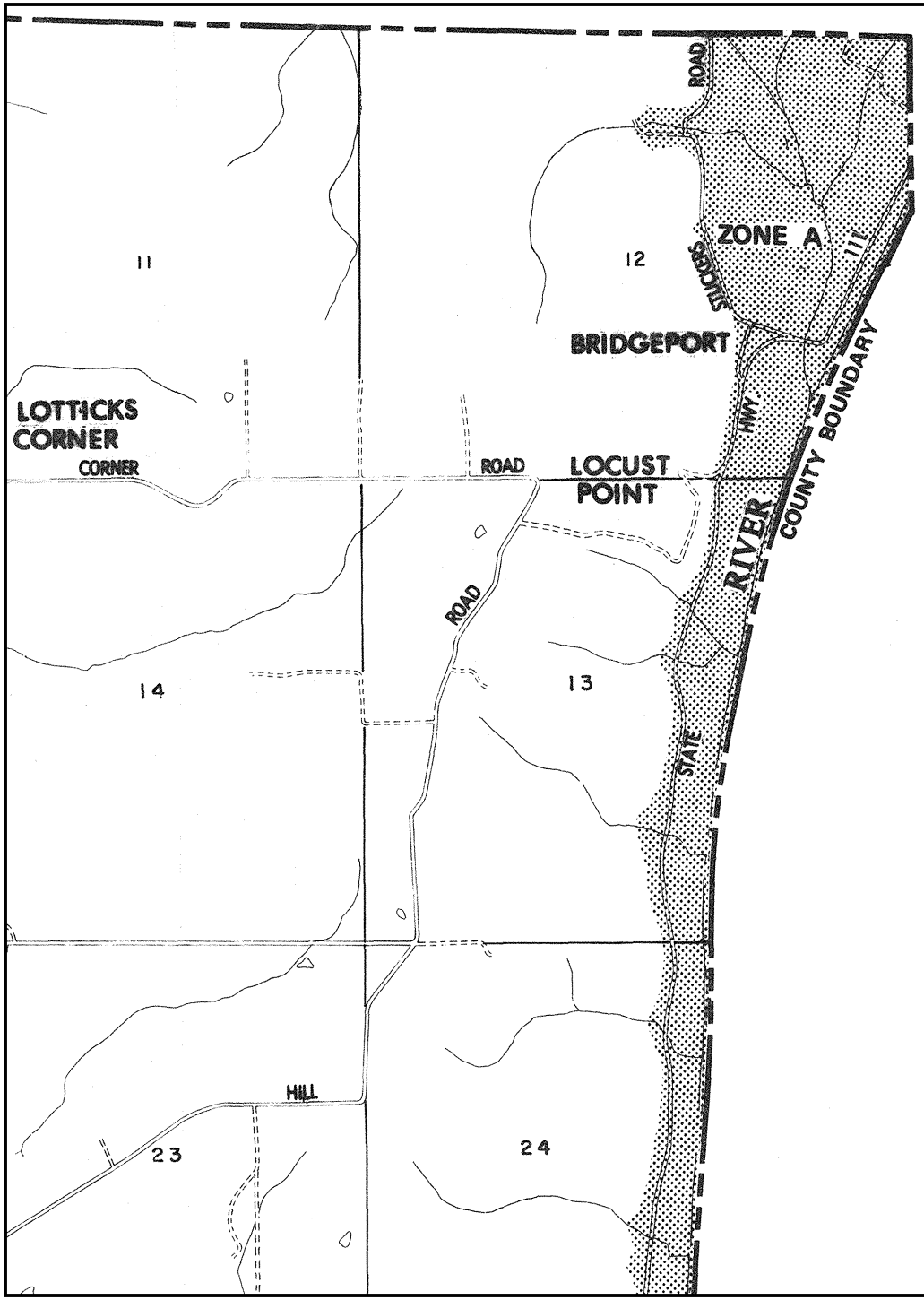
Cost Item	Units	Quantities	Unit Price	Total Price
Boat Ramp Maintenance	/Year	2	$ 1,000.00	$ 2,000.00
Access Road Maintenance	/Year	2	$ 1,000.00	$ 2,000.00
Restrooms Maintenance/Pumping	/Year	12	$ 200.00	$ 2,400.00
Trash Pickup	/Year	24	$ 50.00	$ 1,200.00
Mowing	/Year	8	$ 200.00	$ 1,600.00
General Maintenance (Shelterhouse, Picnic Tables, etc.)	/Year	2	$ 500.00	$ 1,000.00
Total				**$ 10,200.00**

Table 6.01-6 Site No. 10 O&M Opinion of Probable Cost Summary

Cost Item	Units	Quantities	Unit Price	Total Price
Access Road Maintenance	/Year	2	$ 1,000.00	$ 2,000.00
Campground Pumping	/Year	12	$ 200.00	$ 2,400.00
Campground Electricity	/Year	1	$ 5,000.00	$ 5,000.00
Lawn Mowing (Campground)	/Year	8	$ 200.00	$ 1,600.00
Trash Pickup	/Year	24	$ 50.00	$ 1,200.00
General Maintenance (Shelterhouse, Picnic Tables, etc.)	/Year	2	$ 500.00	$ 1,000.00
Total				**$ 13,200.00**

Table 6.01-7 Site No. 11 O&M Opinion of Probable Cost Summary

APPENDIX A
PROJECT MAPS/INFORMATION



APPROXIMATE SCALE IN FEET:

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FLOOD HAZARD BOUNDARY MAP

HARRISON COUNTY INDIANA

UNINC. AREAS

PAGE 8 OF 11

(SEE MAP INDEX FOR PAGES NOT PRINTED)

MAP REVISED:
MAY 19,1978

CONVERTED BY LETTER
EFFECTIVE 11/1/95

COMMUNITY–PANEL NUMBER
180085 0008 A

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

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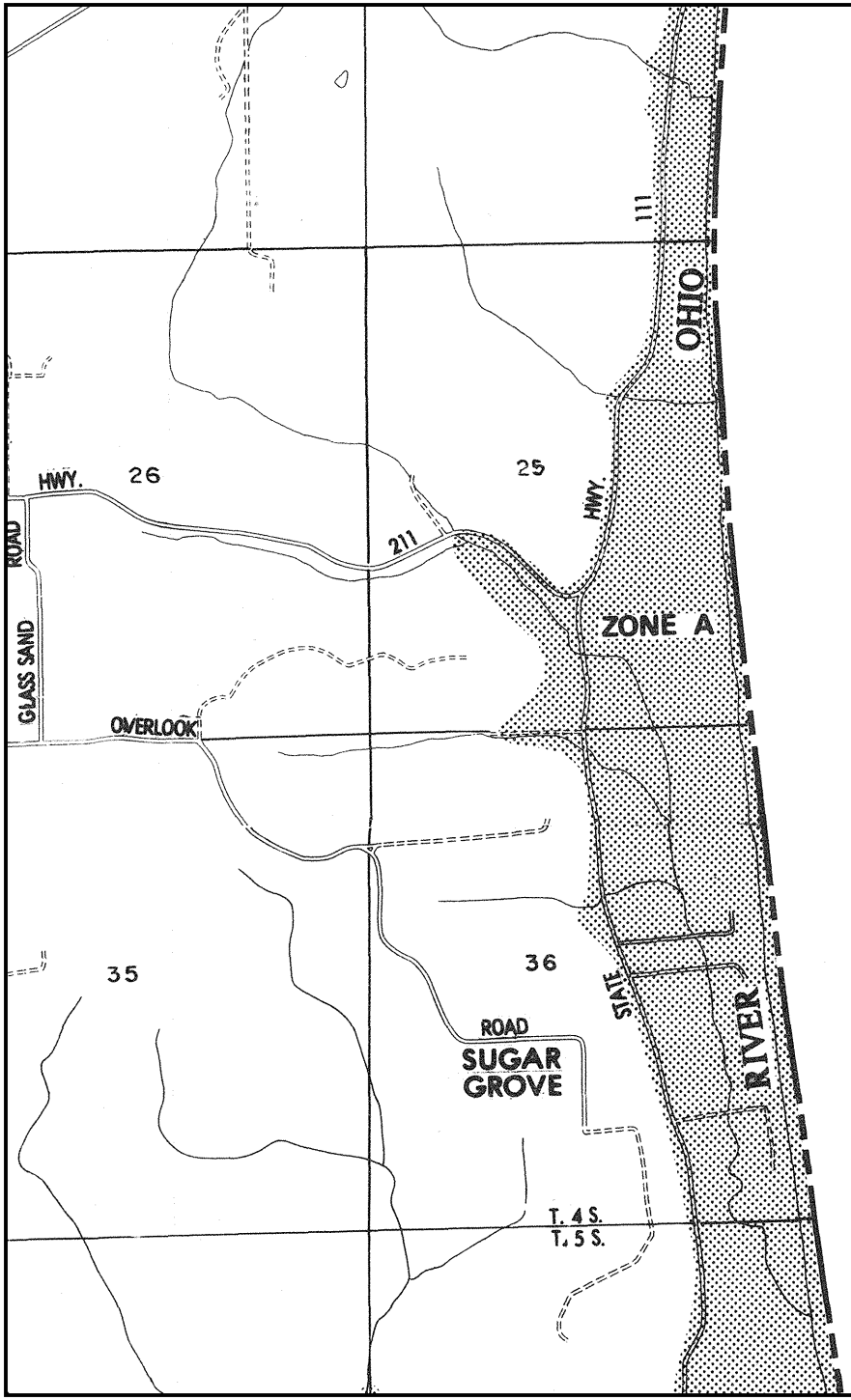

APPROXIMATE SCALE IN FEET:

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FLOOD HAZARD BOUNDARY MAP

HARRISON COUNTY
INDIANA
UNINC. AREAS

PAGE 8 OF 11

(SEE MAP INDEX FOR PAGES NOT PRINTED)

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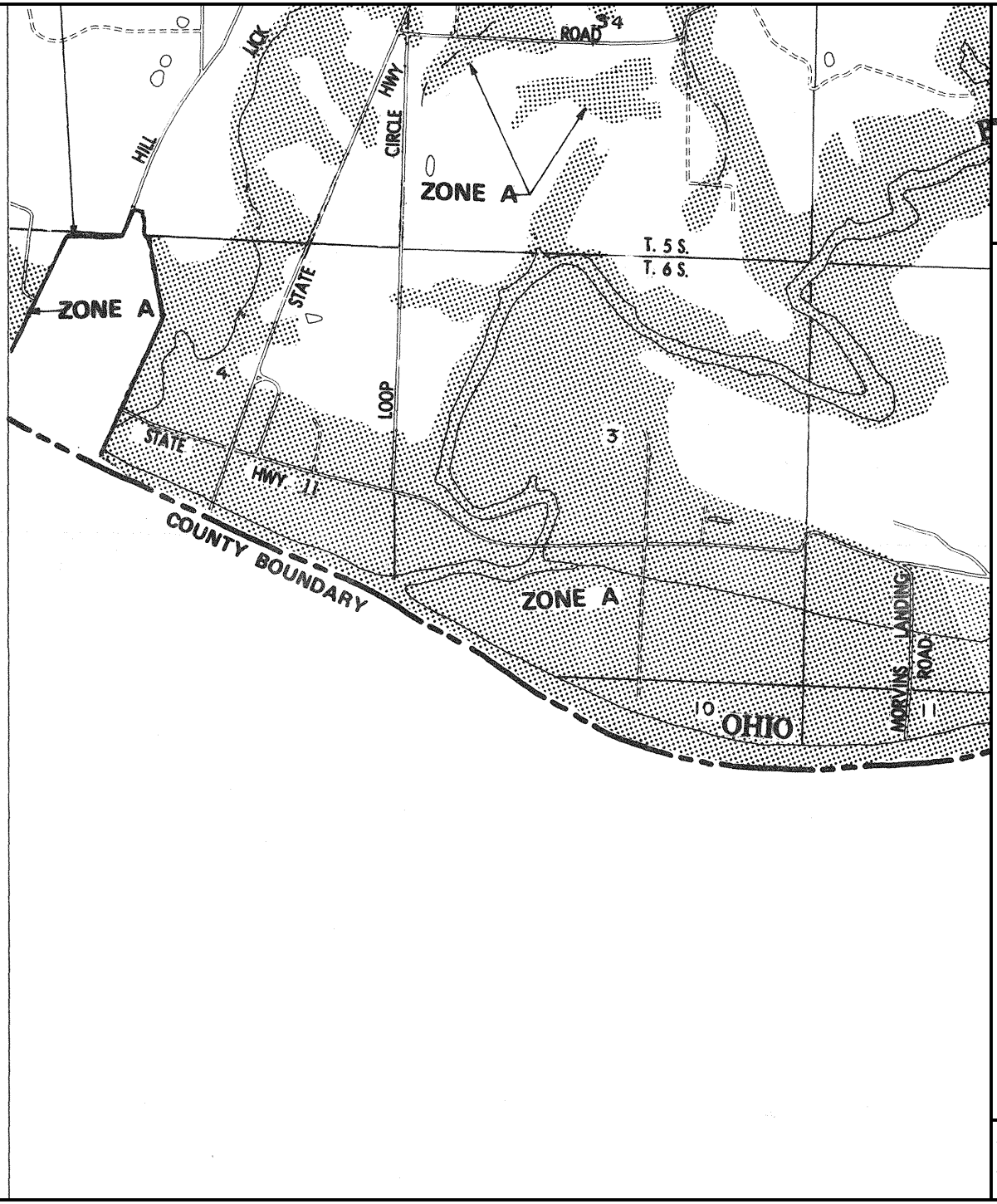

APPROXIMATE SCALE IN FEET:

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FLOOD HAZARD BOUNDARY MAP

HARRISON COUNTY INDIANA

UNINC. AREAS

PAGE 10 OF 11

(SEE MAP INDEX FOR PAGES NOT PRINTED)

MAP REVISED:
MAY 19, 1978

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COMMUNITY–PANEL NUMBER
180085 0010 A

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

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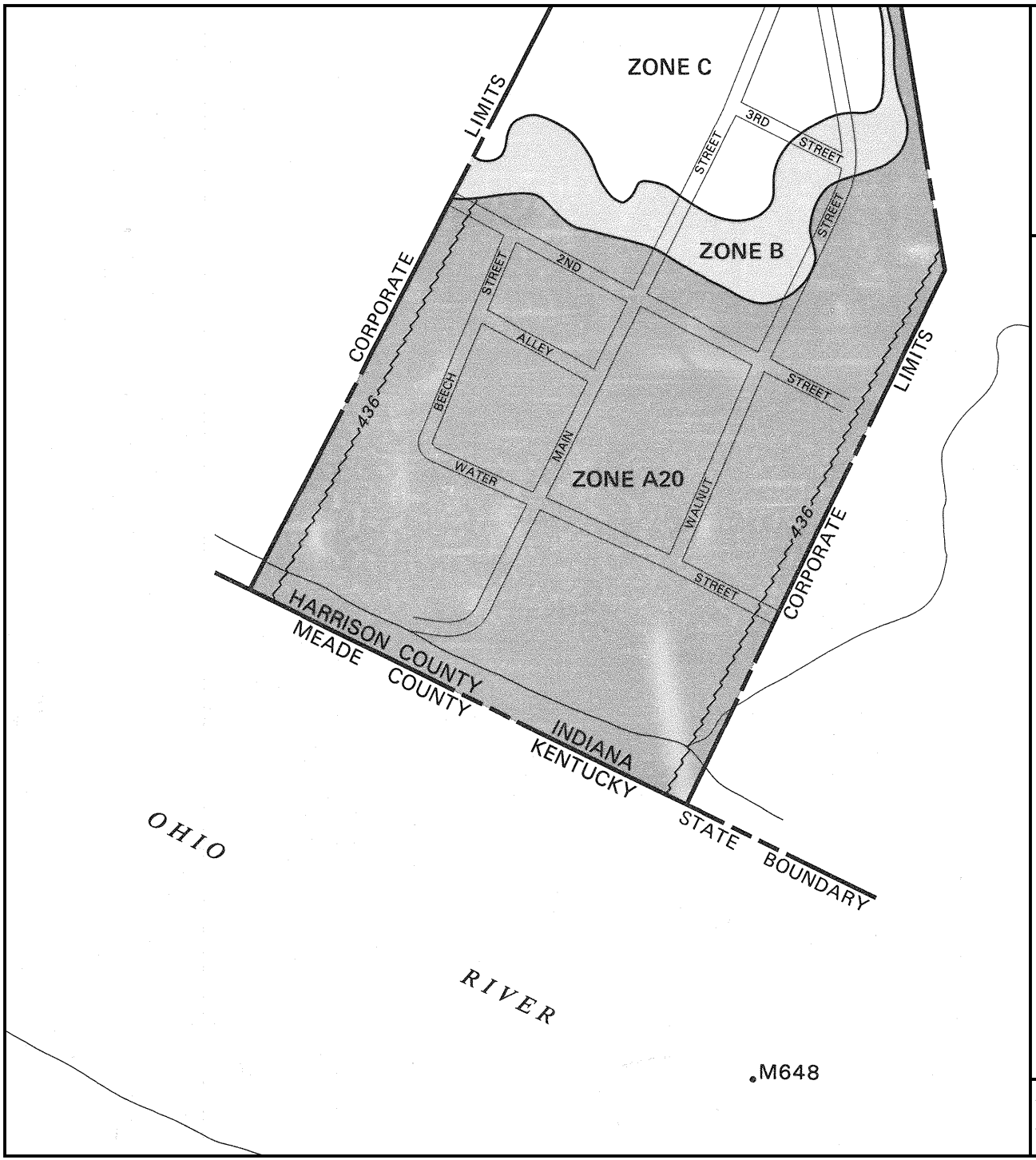

APPROXIMATE SCALE

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NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

TOWN OF
MAUCKPORT,
INDIANA
HARRISON COUNTY

(ONLY PANEL PRINTED)

COMMUNITY-PANEL NUMBER
180403 0001 B

EFFECTIVE DATE:
JULY 5, 1983

Federal Emergency Management Agency

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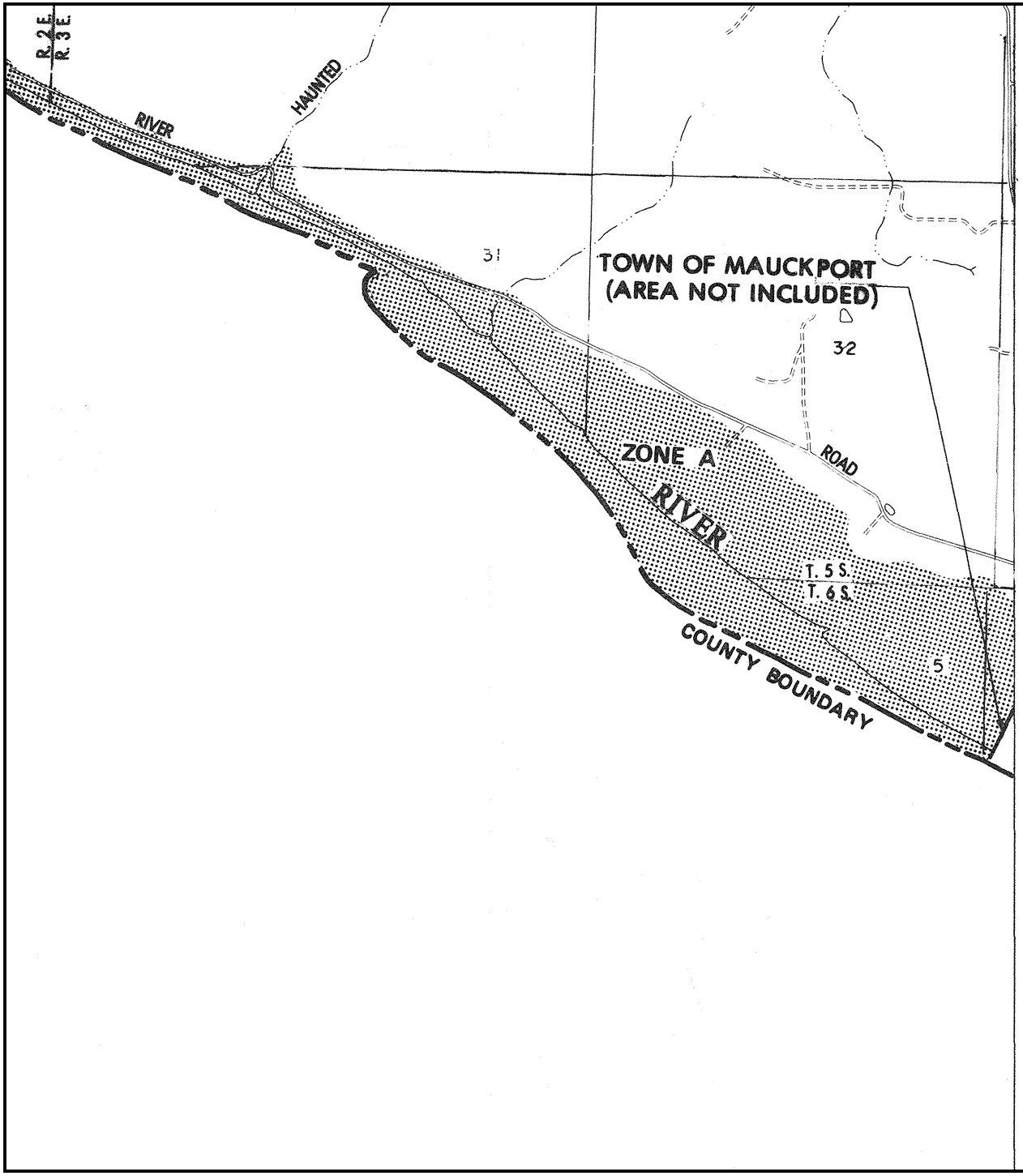

APPROXIMATE SCALE IN FEET:

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FLOOD HAZARD BOUNDARY MAP

HARRISON COUNTY INDIANA

UNINC. AREAS

PAGE 9 OF 11

(SEE MAP INDEX FOR PAGES NOT PRINTED)

MAP REVISED:
MAY 19,1978

CONVERTED BY LETTER
EFFECTIVE 11/1/95

COMMUNITY–PANEL NUMBER
180085 0009 A

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

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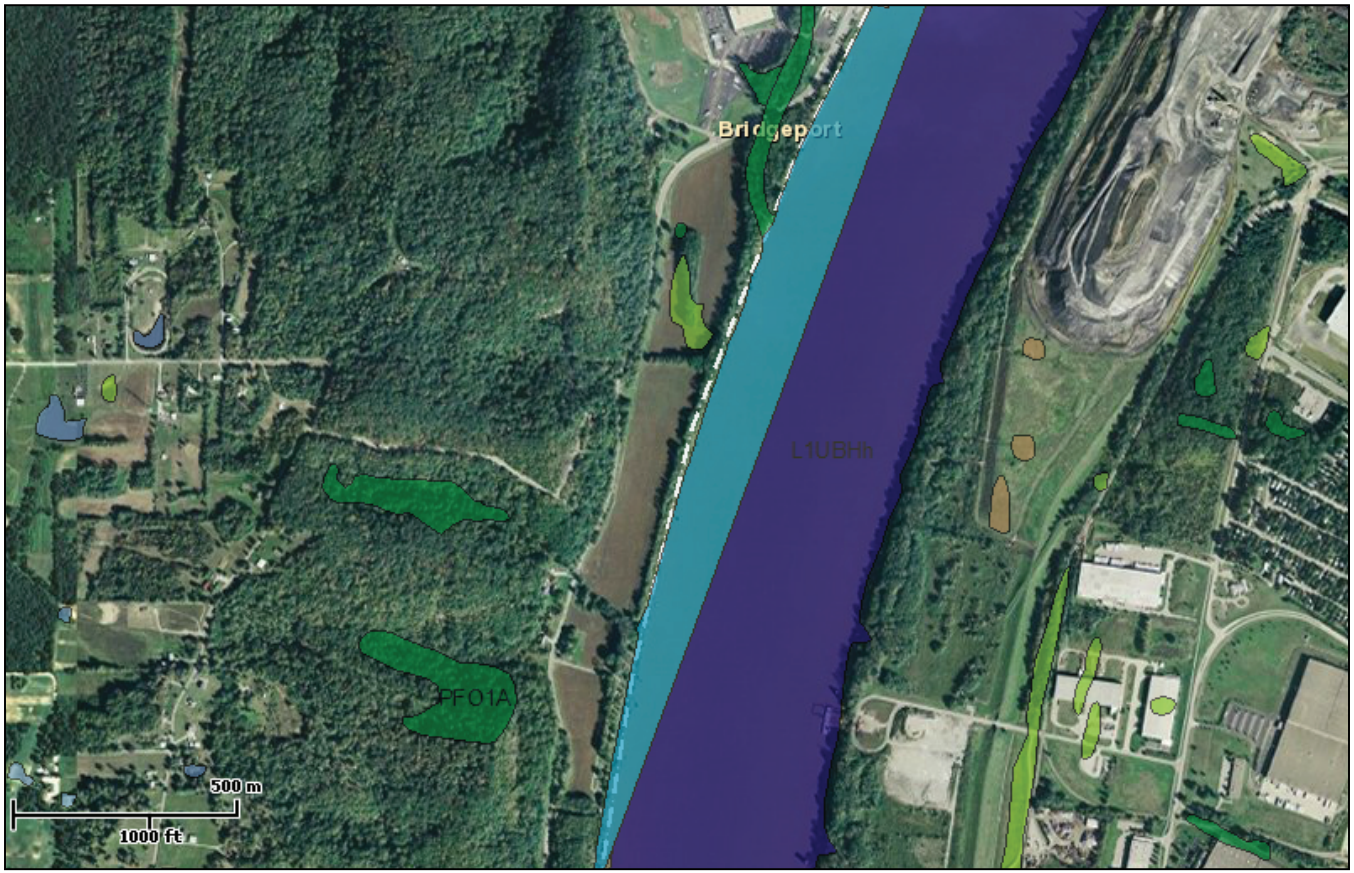
	1- Day Fishing	Annual Senior Fishing	Apprentice Res_ Hunt/Fish	Apprentice Resident Youth Hunt/Fish	Resident DAV Fish	Resident DAV Hunt/Fish	Resident Fish	Resident Hunt/Fish	Resident Youth Hunt/Fish	Voluntary Senior Annual Fish	Senior Fish-For-Life	Total
Crawford												
2006	30	-	-	-	3	15	1190	372	245	-	-	1855
2007	22	-	-	-	7	20	1219	353	236	-	-	1857
2008	37	9	-	36	4	23	1187	353	206	-	-	1855
2009	32	16	2	31	5	29	1193	345	94	1	-	1748
2010	23	17	0		5	30	1099	318		2	64	1558
Floyd												
2006	139	-	-	-	5	29	3801	848	421	-	-	5243
2007	131	-	-	-	6	39	3831	782	440	-	-	5229
2008	114	21	-	52	10	52	3644	710	373	-	-	4976
2009	124	24	2	27	8	74	3858	698	128	3	-	4946
2010	124	48	3	-	9	71	3638	680	-	7	172	4752
Harrison												
2006	80	-	-	-	9	42	3134	816	617	-	-	4698
2007	75	-	-	-	9	64	3224	833	639	-	-	4844
2008	121	10	2	84	11	74	3168	762	643	-	-	4875
2009	110	27	6	53	10	85	3322	782	263	3	-	4661
2010	79	26	4	-	10	94	3037	755	-	2	191	4198
Washington												
2006	66	-	-	-	5	31	2365	638	395	-	-	3500
2007	40	-	-	-	2	31	2302	591	362	-	-	3328
2008	43	12	-	61	3	31	2230	609	363	-	-	3352
2009	42	15	2	26	3	30	2301	591	139	-	-	3149
2010	58	21	3	-	4	32	2210	558	-	8	101	2995

Data from the Division of Fish and Wildlife, Indiana Department of Natural Resources

U.S. Fish and Wildlife Service
National Wetlands Inventory

Junction 211 & 111
Area 1

Dec 12, 2011



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

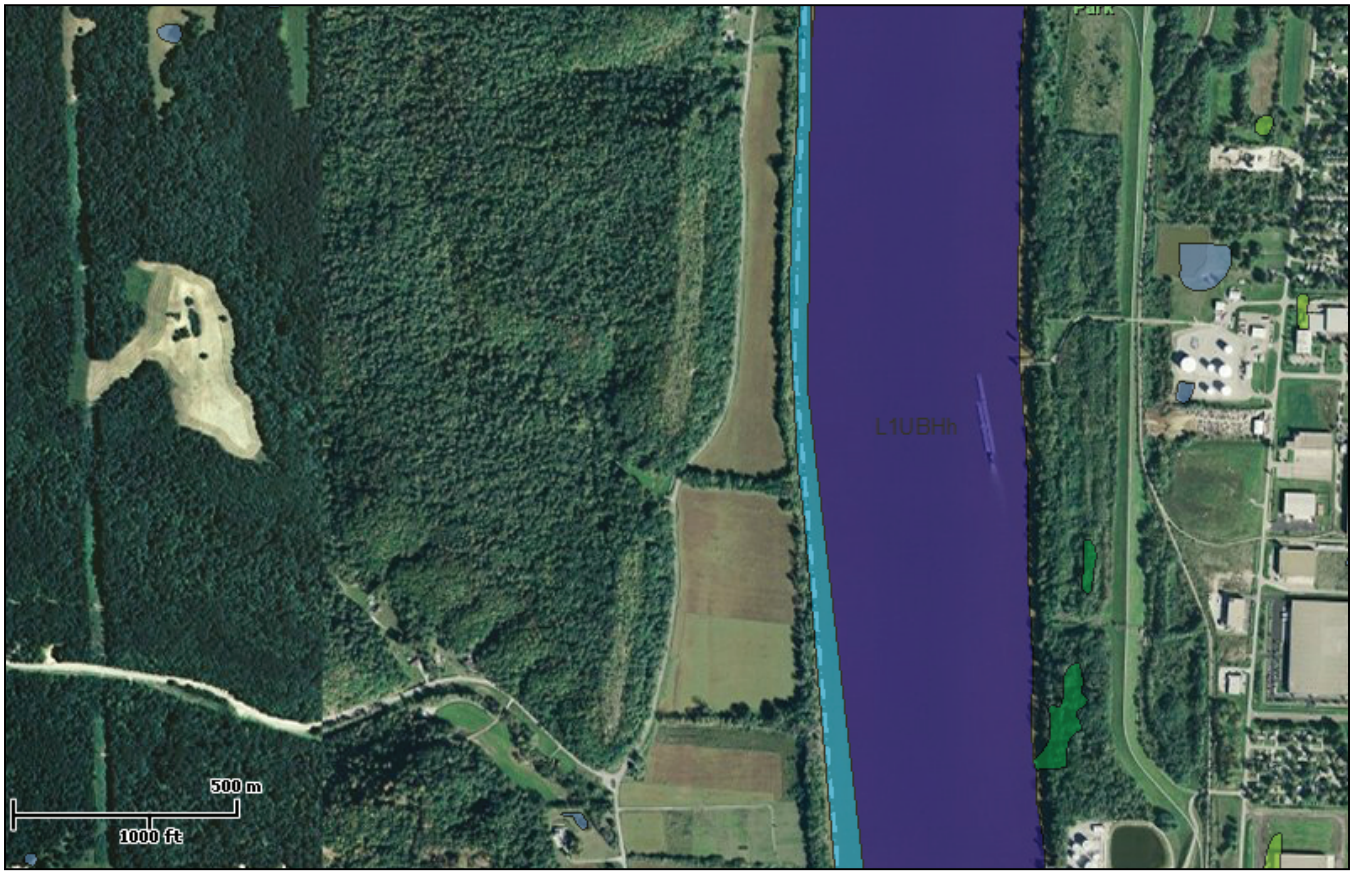
User Remarks:

Wetland Deliniation sites 1

U.S. Fish and Wildlife Service
National Wetlands Inventory

Junction 211 & 111
Area 2

Dec 12, 2011



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Wetland Deliniation for Sites 2-4

U.S. Fish and Wildlife Service
National Wetlands Inventory

Junction 211 & 111
Area 3

Dec 12, 2011

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Wetland Deliniation for site 5

U.S. Fish and Wildlife Service
National Wetlands Inventory

Junction 211 & 111
Area 4

Dec 12, 2011

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Wetland Deliniation for Site 6

U.S. Fish and Wildlife Service

National Wetlands Inventory

Mauckport Area 1

Dec 12, 2011

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Wetland Deliniation for sites 7-9

U.S. Fish and Wildlife Service
National Wetlands Inventory

Mauckport Area 2

Dec 12, 2011

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Wetland Delinitation sites 10-13

U.S. Fish and Wildlife Service
National Wetlands Inventory

Mauckport Area 3

Dec 12, 2011

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Wetland Deliniation site 14

U.S. Army Corps
of Engineers
Louisville District

Ohio River Navigation Charts

Cairo, Illinois to Foster, Kentucky

JUNE 2010

U.S. Navigation Lights
Daybeacons
Mile Board

WATER WORKS LIGHT &
DAYMARKS 792.0
FL G4s SG(U), SG(D)

Buoys
- Can (Green)
- Nun (Red)
- Junction (Red/Green)
- Hazard (Lighted)

Arrival Point for Lockage

Spot Elevations +302
Mile Marker
Sailing Line
Secondary Sailing Line
Aerial Crossing
Submarine Crossing:
- Pipeline
- Cable

Commercial Docks:
- Cells
- Intake
- Diffusion Outfall Pipe
- Dolphin

Recreational Facilities:
- Launching Ramp
- Dock or Marina

Ordinary High Water Elevation: OHW 376.6

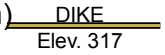
Miscellaneous:
- Coast Guard Station
- Tank
- Tower
- Ferry
- Crane

Regulated Navigation Areas: See Notes

Restricted Area
No Vessels Allowed

Gages

Land Features:
- Revetment/Rip Rap
- Swamp
- Levee/Flood Wall
- Rock Wall
- Dike (Top Elev. Shown)

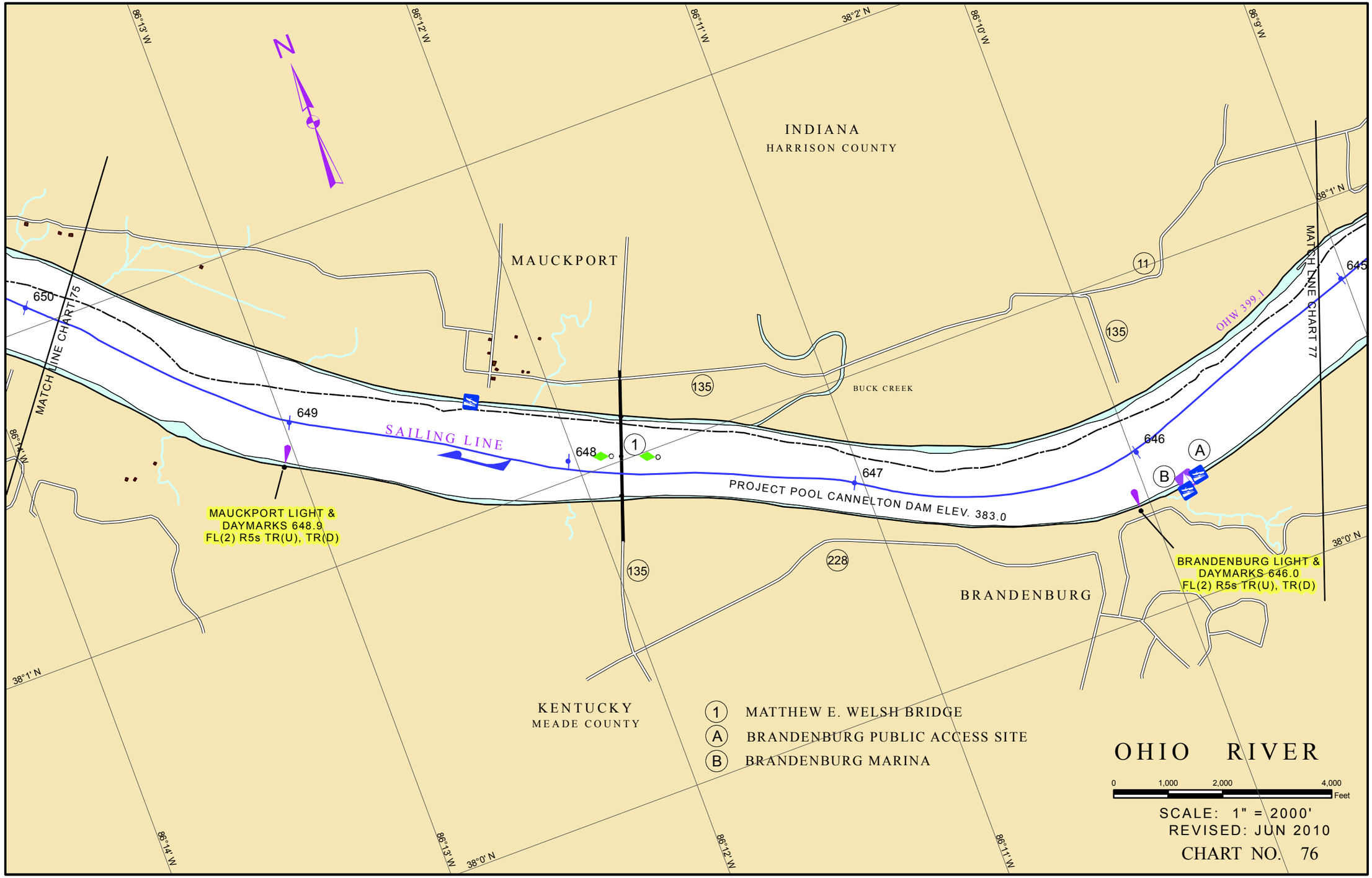


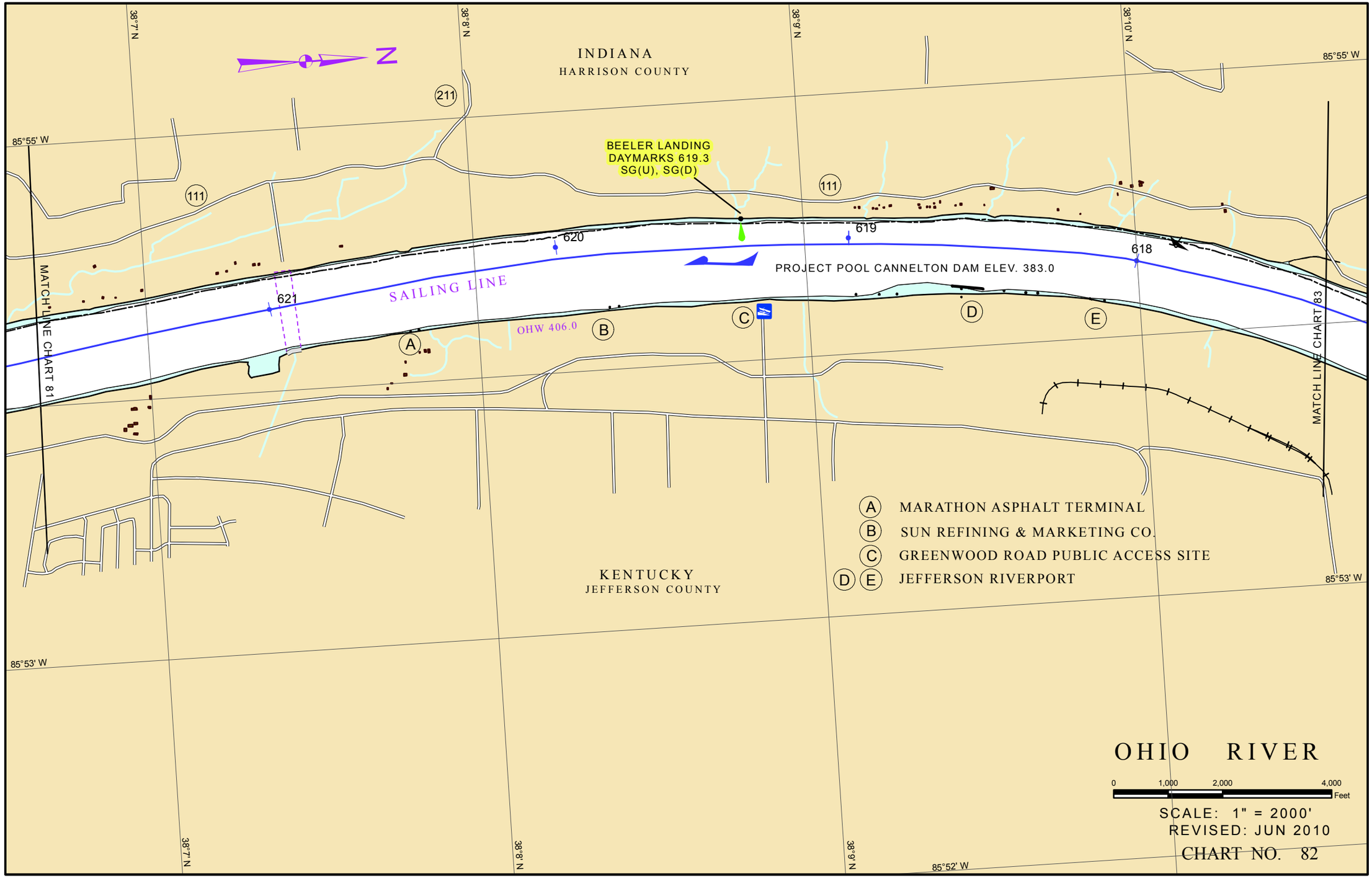
Wrecks:
- Visible Wreck
- Submerged Wreck
- Submerged Wreck (Depth Known)

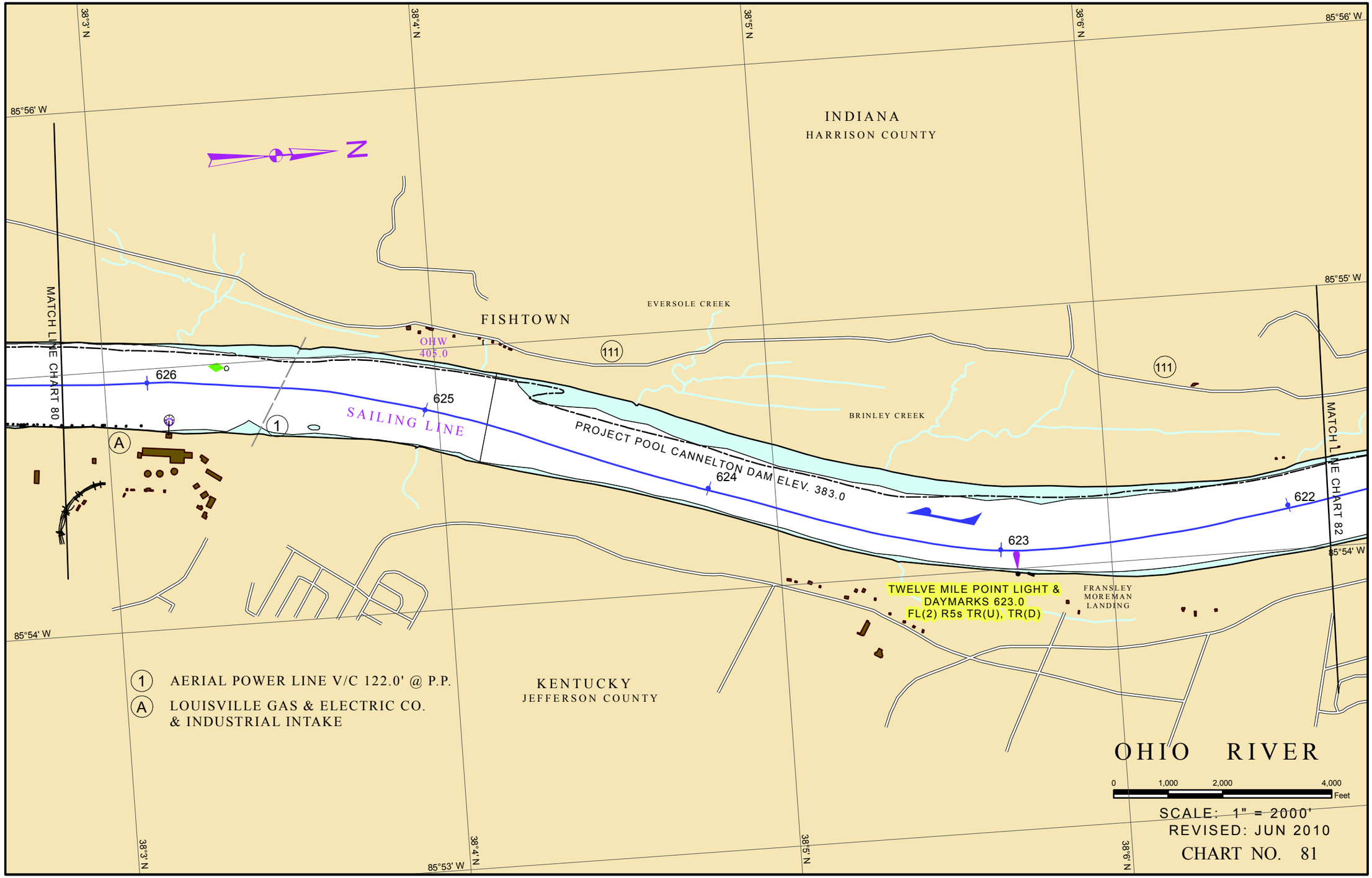
Bottom Information:
- Land Above Project Pool
- Water, with Less Than 9' Depth at Project Pool
- Water, with 9' or More Depth at Project Pool
- Drying Height, Area that is Dry at Project Pool
- Rock
- State Boundary
- County Boundary

LEGEND
OHIO RIVER
LOUISVILLE DISTRICT

SHEET I


N
INDIANA
HARRISON COUNTY
MAUCKPORT
BUCK CREEK
KENTUCKY
MEADE COUNTY
BRANDENBURG
MATCHLINE CHART 75
MATCHLINE CHART 77
650
649
648
647
646
645
SAILING LINE
PROJECT POOL CANNELTON DAM ELEV. 383.0
OHW 399.1
MAUCKPORT LIGHT &
DAYMARKS 648.9
FL(2) R5s TR(U), TR(D)
BRANDENBURG LIGHT &
DAYMARKS 646.0
FL(2) R5s TR(U), TR(D)
135
11
228
1 MATTHEW E. WELSH BRIDGE
A BRANDENBURG PUBLIC ACCESS SITE
B BRANDENBURG MARINA
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: JUN 2010
CHART NO. 76
86°13' W
86°12' W
86°11' W
86°10' W
86°9' W
86°14' W
38°2' N
38°1' N
38°0' N

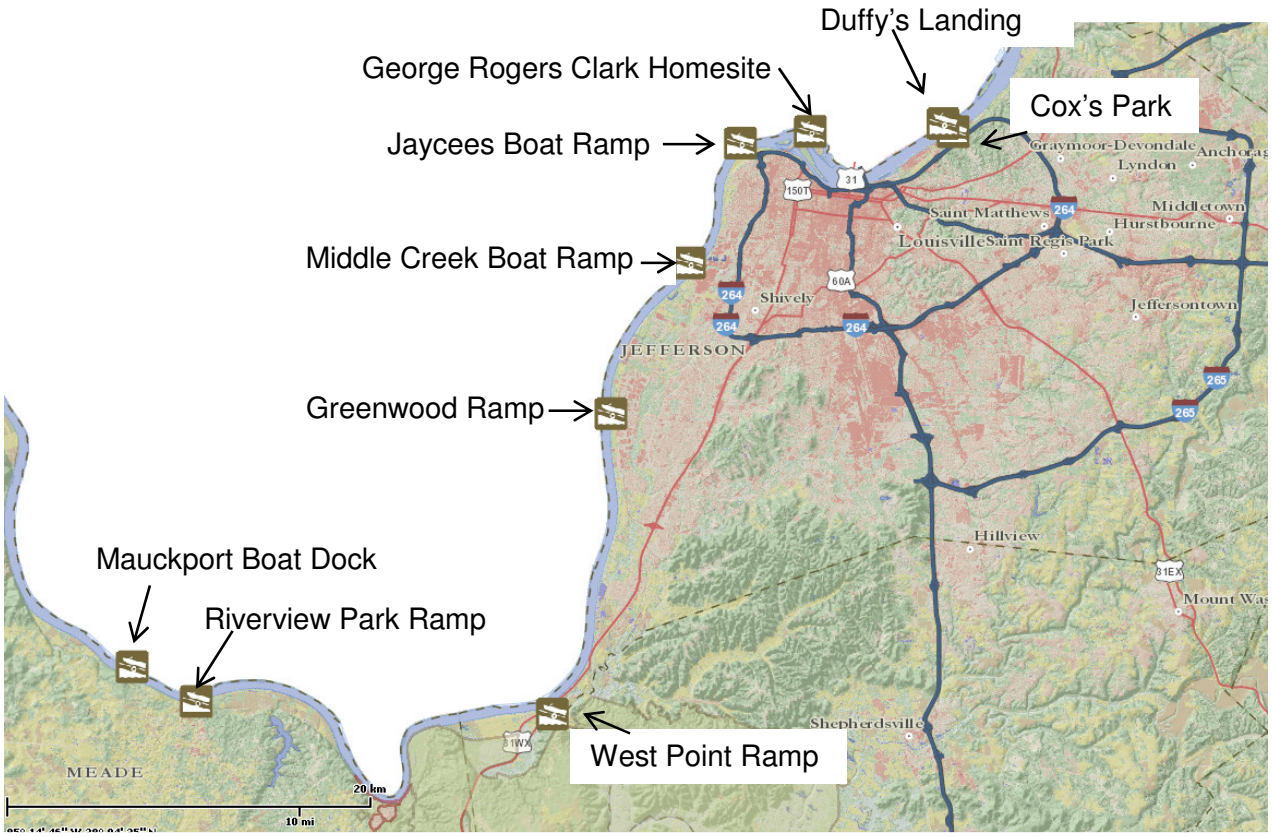

INDIANA
HARRISON COUNTY
KENTUCKY
JEFFERSON COUNTY
N
38°7' N
38°8' N
38°9' N
38°10' N
85°55' W
85°53' W
85°52' W
211
111
BEELER LANDING
DAYMARKS 619.3
SG(U), SG(D)
620
619
618
621
PROJECT POOL CANNELTON DAM ELEV. 383.0
SAILING LINE
OHW 406.0
MATCH LINE CHART 81
MATCH LINE CHART 83
A MARATHON ASPHALT TERMINAL
B SUN REFINING & MARKETING CO.
C GREENWOOD ROAD PUBLIC ACCESS SITE
D E JEFFERSON RIVERPORT
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: JUN 2010
CHART NO. 82


38°3' N
38°4' N
38°5' N
38°6' N
85°56' W
85°55' W
85°54' W
85°53' W
INDIANA
HARRISON COUNTY
KENTUCKY
JEFFERSON COUNTY
FISHTOWN
EVERSOLE CREEK
BRINLEY CREEK
FRANSLEY
MOREMAN
LANDING
MATCH LINE CHART 80
MATCH LINE CHART 82
OHW
405.0
111
626
625
624
623
622
SAILING LINE
PROJECT POOL CANNELTON DAM ELEV. 383.0
TWELVE MILE POINT LIGHT &
DAYMARKS 623.0
FL(2) R5s TR(U), TR(D)
1 AERIAL POWER LINE V/C 122.0' @ P.P.
A LOUISVILLE GAS & ELECTRIC CO.
& INDUSTRIAL INTAKE
OHIO RIVER
0 1,000 2,000 4,000
Feet
SCALE: 1" = 2000'
REVISED: JUN 2010
CHART NO. 81

APPENDIX B
EXISTING SITES INVESTIGATION

Site Name	Location	Capacity	Land Area	Surface	Fee	Picnic	Camping	Restrooms	Marina
Mauckport Boat Dock	Mauckport, IN	25 or Less	2 Acres	Paved	Yes	Unknown	Unknown	Unknown	Unknown
Riverview Park Ramp	Brandenburg, KY	26 to 25	23 Acres	Paved	No	Year Round	None	Year Round	Seasonal
West Point Ramp	West Point, KY	25 or Less	10 Acres	Paved	Yes	Unknown	Unknown	Seasonal	Unknown
Greenwood Ramp	Greenwood, KY	26 to 25	10 Acres	Paved	No	Year Round	Unknown	Year Round	None
Middle Creek Boat Ramp	Floyd County, IN	26 to 25	30 Acres	Paved	No	Unknown	Unknown	Unknown	Unknown
Jaycees Boat Ramp	New Albany, IN	25 or Less	10 Acres	Paved	No	Year Round	Unknown	Unknown	Unknown
George Rogers Clark Homesite	Clarksville, IN	25 or Less	3 Acres	Paved	No	Year Round	Unknown	Unknown	Unknown
Duffy's Landing	Jeffersonville, IN	51 Plus	10 Acres	Paved	No	Year Round	Unknown	Year Round	Unknown
Cox's Park	Riverwood, KY	26 to 25	120 Acres	Paved	No	Year Round	Unknown	Unknown	Unknown

Example Boat Ramps:



Mauckport Boat Dock (Mauckport, IN)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Louisville
Site Name: Mauckport Boat Dock
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Paved
Capacity: 25 or Less, Approximately 2 Acres
Fee: Yes
Picnic: Unknown
Camping: Unknown
Restroom: Unknown
Marina: Unknown

Riverview Park Ramp (Brandenburg, KY)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Central
Site Name: Riverview Park Ramp
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Central
Parking: Paved
Capacity: 26 to 50, Approximately 23 Acres
Fee: No
Picnic: Year-Round, Limited-Hours
Camping: None
Restroom: Year-Round, All-Hours
Marina: Seasonal, Limited-Hours

West Point Ramp-Salt River (West Point, KY)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Louisville
Site Name: West Point Ramp - Salt River
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Unpaved
Capacity: 25 or Less, Approximately 10 Acres
Fee: Yes
Picnic: Unknown
Camping: Unknown
Restroom: Seasonal, All-Hours

Greenwood Ramp (Greenwood, KY)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Louisville
Site Name: Greenwood Ramp
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Paved
Capacity: 26 to 50, Approximately 10 Acres
Fee: No
Picnic: Year-Round, All-Hours
Camping: Unknown
Restroom: Year-Round, All-Hours
Marina: None

Middle Creek Boat Ramp (Floyd County, IN)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Louisville
Site Name: Middle Creek Boat Ramp
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Paved
Capacity: 26 to 50, Approximately 30 Acres
Fee: No
Picnic: Unknown
Camping: Unknown
Restroom: Unknown
Marina: Unknown

Jaycees Boat Ramp (New Albany, IN)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Louisville
Site Name: Jaycees Boat Ramp
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Paved
Capacity: 25 or Less, Approximately 10 Acres?
Fee: No
Picnic: Year-Round, All-Hours
Camping: Unknown
Restroom: Unknown
Marina: Unknown

George Rogers Clark Homesite (Clarksville, IN)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Louisville
Site Name: George Rogers Clark Homesite
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Paved
Capacity: 25 or Less, Approximately 3 Acres
Fee: No
Picnic: Year-Round, All-Hours
Camping: Unknown
Restroom: Unknown
Marina: Unknown

Duffy’s Landing (Jeffersonville, IN)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Louisville
Site Name: Duffy's Landing
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Paved
Capacity: 51 plus, Approximately 10 Acres
Fee: No
Picnic: Year-Round, All-Hours
Camping: Unknown
Restroom: Year-Round, All-Hours
Marina: Unknown

Cox's Park (Riverwood, KY)

Water Body: Ohio River - Louisville
Site Name: Cox's Park
Shoreline: Unknown
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Paved
Capacity: 26 to 50, Approximately 120 Acres
Fee: No
Picnic: Year-Round, All-Hours
Camping: Unknown
Restroom: Unknown
Marina: Unknown

Additional Examples:

Westport (Westport, KY)

Water Body: Ohio River - Louisville
Site Name: Westport
Shoreline: Year-Round, All-Hours
Boat Ramp: Year-Round, All-Hours
Surface: Paved
Water Body: Ohio River - Louisville
Parking: Paved
Capacity: 26 to 50, Approximately 5 Acres
Fee: No
Picnic: Year-Round, All-Hours
Restroom: Year-Round, All-Hours

Paul Ogle Riverfront Park (Vevay, IN)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Below Cincinnati
Site Name: Paul Ogle Riverfront Park
Shoreline: Year-Round, Limited-Hours
Boat Ramp: Year-Round, Limited-Hours
Surface: Paved
Water Body: Ohio River - Below Cincinnati
Parking: Paved
Capacity: 25 or Less, Approximately 20 Acres
Fee: No
Picnic: Year-Round, Limited-Hours
Camping: Unknown
Restroom: Year-Round, Limited-Hours
Marina: Unknown

Big Bone Creek (Boone County, KY)

Access Type: Any Boat
Type: Any Boat
Water Body: Ohio River - Below Cincinnati
Site Name: Big Bone Creek
Shoreline: Unknown
Boat Ramp: Seasonal, All-Hours
Surface: Paved
Water Body: Ohio River - Below Cincinnati
Parking: Paved
Capacity: 51 plus, Approximately 20 Acres
Fee: Yes
Picnic: Unknown
Camping: Seasonal, All-Hours
Restroom: Seasonal, All-Hours
Marina: Seasonal, All-Hours

Date: 11-23-11 Attendees: _____

Site Information

Name of Site: Mauckport Boat Dock

Location: Mauckport

Approximate Area: 2 acres

Distance to next Ramp: Downstream: _____ Upstream: _____

Fee to Use: ~~$~~ $2.00 Adjacent Land Use: Residential

Site Details

Parking:

# of Parking Spaces:	5? Car Trailer	____ Car Only	____ Overflow
Type of Parking Spaces:	____ Pull Thru	X Head In	____ Angle
Parking Lot Surface:	____ Aggregate	____ Bituminous	X Grass/Dirt

Launch Ramp:

# of Ramps: 1

Ramp Type: ____ Gravel X Poured Concrete ____ Precast Plank

Apparent Water Depth: _____

River Bottom Type at Launch Site: Shallow, hard to launch, a lot of driftwood

Facilities:

Facilities (Check all that Apply):

____ Tie Down Lane	____ Shelter	____ Bathroom	____ Picnic Area
____ Grill	____ Trash Can	____ Walking Path	____ Playground
____ Campground	____ Amphitheater	____ Fields	____ Pier/Dock

____ Other (List: _____)

Overall Aspects Liked:

_____

_____

_____

Overall Aspects Disliked:

Hard to launch boat, narrow boat ramp, drop off end of pad trying to put boat in the water. Not used, needs more acreage.

_____

Date: 11-23-11 Attendees: _____

Site Information

Name of Site: Riverview Park Ramp

Location: Brandenburg, KY

Approximate Area: 23 acres

Distance to next Ramp: Downstream: Marvin's landing is just across the river Upstream: _____

Fee to Use: No Adjacent Land Use: Park/Recreation

Site Details

Parking:

# of Parking Spaces:	X Car Trailer	X Car Only	____ Overflow
Type of Parking Spaces:	X Pull Thru	X Head In	X Angle
Parking Lot Surface:	____ Aggregate	X Bituminous	____ Grass/Dirt

Launch Ramp:

# of Ramps: 2

Ramp Type: ____ Gravel X Poured Concrete ____ Precast Plank

Apparent Water Depth: _____

River Bottom Type at Launch Site: Good

Facilities:

Facilities (Check all that Apply):

____ Tie Down Lane	X Shelter	X Bathroom	X Picnic Area
____ Grill	X Trash Can	X Walking Path	X Playground
____ Campground	X Amphitheater	X Fields	X Pier/Dock
____ Other (List: _____)			

Overall Aspects Liked:

Likes shelter house, nice launch area, boat ramp points down stream

Overall Aspects Disliked:

Most southern Indiana people use this ramp. Boat dock is in poor shape. Only has port-o-let

Date: 11-23-11 Attendees: _____

Site Information

Name of Site: West Point Boat Ramp

Location: West Point, KY

Approximate Area: [redacted] 10 acres Part of Fort Duffy

Distance to next Ramp: Downstream: _____ Upstream: _____

Fee to Use: Yes Adjacent Land Use: Floodplain

Site Details

Parking:

# of Parking Spaces:	X Car Trailer	X Car Only	____ Overflow
Type of Parking Spaces:	X Pull Thru	X Head In	X Angle
Parking Lot Surface:	X Aggregate	____ Bituminous	____ Grass/Dirt

Launch Ramp:

# of Ramps: 1 Asphalt

Ramp Type: ____ Gravel ____ Poured Concrete ____ Precast Plank

Apparent Water Depth: _____

River Bottom Type at Launch Site: Goes into Salt River

Facilities:

Facilities (Check all that Apply):

____ Tie Down Lane	____ Shelter	____ Bathroom	____ Picnic Area
____ Grill	____ Trash Can	____ Walking Path	____ Playground
X Campground	____ Amphitheater	____ Fields	____ Pier/Dock

____ Other (List: _____)

Overall Aspects Liked:

_____

_____

_____

Overall Aspects Disliked:

Not well maintained

_____

_____

Date: 11-23-11 Attendees: _____

Site Information

Name of Site: Greenwood Ramp (River Park)

Location: Greenwood, KY

Approximate Area: 10 acres

Distance to next Ramp: Downstream: _____ Upstream: _____

Fee to Use: No Adjacent Land Use: _____

Site Details

Parking:

# of Parking Spaces:	X Car Trailer	X Car Only	X Overflow
Type of Parking Spaces:	X Pull Thru	X Head In	____ Angle
Parking Lot Surface:	____ Aggregate	X Bituminous	____ Grass/Dirt

Launch Ramp:

# of Ramps: 1

Ramp Type: ____ Gravel X Poured Concrete ____ Precast Plank

Apparent Water Depth: _____

River Bottom Type at Launch Site: _____

Facilities:

Facilities (Check all that Apply):

____ Tie Down Lane	X Shelter	X Bathroom	X Picnic Area
X Grill	X Trash Can	X Walking Path (levee walk)	X Playground (waterpark)
____ Campground	____ Amphitheater	____ Fields	____ Pier/Dock

____ Other (List: lighting)

Overall Aspects Liked:

Nice Parking lot + play ground, Nice facilities

Overall Aspects Disliked:

Boat ramp angled wrong way (angled up stream). No good way to pick up passengers.

→ looks like it could be undercut

Date: 11-23-11 Attendees: _____

Site Information

Name of Site: Cox's Park

Location: Riverwood, KY

Approximate Area: 120 acres

Distance to next Ramp: Downstream: _____ Upstream: _____

Fee to Use: No Adjacent Land Use: Park

Site Details

Parking:

# of Parking Spaces:	X Car Trailer	X Car Only	X Overflow
Type of Parking Spaces:	X Pull Thru	X Head In	____ Angle
Parking Lot Surface:	____ Aggregate	X Bituminous	____ Grass/Dirt

Launch Ramp:

# of Ramps: 1 multiple lanes + plus one small ramp (asphalt) + gravel parking

Ramp Type: ____ Gravel X Poured Concrete with asphalt ____ Precast Plank

Apparent Water Depth: _____ upstream of dam less variation of pool level

River Bottom Type at Launch Site: _____

Facilities:

Facilities (Check all that Apply):

X Tie Down Lane	X Shelter	X Bathroom	X Picnic Area
X Grill	X Trash Can	X Walking Path	X Playground
____ Campground	____ Amphitheater	X Fields	____ Pier/Dock

____ Other (List: _____)

Overall Aspects Liked:

Loading area. Piers with sidewalk on riverside

Overall Aspects Disliked:

Date: 11-23-11 Attendees: _____

Site Information

Name of Site: George Rogers Clark Homesite

Location: Clarksville, IN

Approximate Area: 3 acres

Distance to next Ramp: Downstream: _____ Upstream: _____

Fee to Use: No Adjacent Land Use: Residential

Site Details

Parking:

# of Parking Spaces:	X Car Trailer	____ Car Only	____ Overflow
Type of Parking Spaces:	X Pull Thru	X Head In	____ Angle
Parking Lot Surface:	____ Aggregate	X Bituminous	____ Grass/Dirt

Launch Ramp:

# of Ramps: 1

Ramp Type: ____ Gravel X Poured Concrete ____ Precast Plank

Apparent Water Depth: Turbulent

River Bottom Type at Launch Site: _____

Facilities:

Facilities (Check all that Apply):

____ Tie Down Lane	X Shelter	____ Bathroom	X Picnic Area
X Grill	X Trash Can	____ Walking Path	____ Playground
____ Campground	____ Amphitheater	____ Fields	____ Pier/Dock

____ Other (List: _____)

Overall Aspects Liked:

Scenic

Overall Aspects Disliked:

Locks are directly across from the ramp — alot of erosion + debris

Date: 11-23-11 Attendees: _____

Site Information

Name of Site: Jaycees Boat Ramp

Location: New Albany

Approximate Area: 10 acres

Distance to next Ramp: Downstream: _____ Upstream: _____

Fee to Use: No Adjacent Land Use: _____

Site Details

Parking:

# of Parking Spaces:	X Car Trailer	___ Car Only	___ Overflow
Type of Parking Spaces:	___ Pull Thru	X Head In	___ Angle
Parking Lot Surface:	___ Aggregate	X Bituminous	___ Grass/Dirt

Launch Ramp:

# of Ramps: 1 X Asphalt

Ramp Type: ___ Gravel ___ Poured Concrete ___ Precast Plank

Apparent Water Depth: _____

River Bottom Type at Launch Site: _____

Facilities:

Facilities (Check all that Apply):

___ Tie Down Lane	___ Shelter	___ Bathroom	___ Picnic Area
___ Grill	X Trash Can	X Walking Path	___ Playground
___ Campground	X Amphitheater	___ Fields	___ Pier/Dock

X Other (List: bench seating)

Overall Aspects Liked:

_____

_____

_____

Overall Aspects Disliked:

Road, doesn't go out in the river very far.

_____

_____

APPENDIX C
PROPOSED SITES INVESTIGATION

Initial Sites

#	Parcel Number	Address	Property Status	Total Acerage	Adj. Acerage	Buildings	Owner	Wetlands*	River Info**
1	31-15-12-400-007.000-015	Stucky Road, Elizabeth, IN	Other Agricultural Use	21.102	21		McBride, G Wayne & Gail A.	Freshwater Emergent and Forested Wetland present in middle of site and Non-wetland forested riparian corridor along river	< 9' Water at shore
2	31-15-13-100-001.000-015	Doolittle Hill Rd. SE, Elizabeth, IN	Vacant Land	71.028	72.399		McBride, G Wayne & Gail A.	Non-wetland forested riparian corridor along river	Visible Wreck, < 9' Water at shore
3	31-15-13-200-001.000-015	2400 HWY 111 SE, Elizabeth, IN	Other Residential Structures	18.412	26.762	1	McBride, G Wayne & Gail A.	Non-wetland forested riparian corridor along river	< 9' Water at shore
4	31-15-24-300-005.000-015	3805 Hwy 111 SE, IN	Cash Grain/General Farm	132.58	138.3	4	Fink, Lou Alice	Non-wetland forested riparian corridor along river	< 9' Water at shore
5	31-15-25-100-001.000-015	Hwy 111 SE, Elizabeth, IN	Vacant Land	77.237	79.9		Fink, Lou Alice	Non-wetland forested riparian corridor along river	< 9' Water at shore
6	31-15-25-100-005.000-015	4345 Hwy. 111 SE, Elizabeth IN	Vacant Land	40.529	43.204		Weisenbach, Ray F.	Non-wetland forested riparian corridor along river	< 9' Water at shore
7	31-15-25-300-005.000-015	4670 Hwy. 111 SE, Elizabeth, IN	Cash Grain/General Farm	19.518	17.999	1	Bowling, Eddie W. & Barbara B.	Non-wetland forested riparian corridor along river	
8	35-15-25-300-010.000-015	4855 Hwy. 111 SE, IN	Cash Grain/General Farm	69.228	67.889	4	Hoke, Burl, Andrea K., & Doris	Non-wetland forested riparian corridor along river, and wetland line running through middle of site	
9	31-15-36-100-020.000-015	5285 Hwy. 111 SE, IN	Cash Grain/General Farm	29	32.1	10	Glaze, Roger L. & Mary Jean	Non-wetland forested riparian corridor along river	< 9' Water at shore
10	31-15-36-100-024.000-015	5365 Hwy. 111 SE, Elizabeth, IN	Cash Grain/General Farm	28.9	27.1	7	Glaze, Roger L. & Mary Jean	Non-wetland forested riparian corridor along river	< 9' Water at shore
11	31-19.01-100-001.000-015	Hwy. 111 SE, Elizabeth, IN	Vacant Land	35.244	32.29		Bkw, Lic	Non-wetland forested riparian corridor along river, and emergent wetland in middle of site	< 9' Water at shore
12	31-20-11-100-005.000-009	Morvins Landing Rd., IN	Cash Grain/General Farm	11.1	15.7		Richard, Wilma Jean	Non-wetland forested riparian corridor along river	< 9' Water at shore
13	31-20-11-100-003.000-009	Morvins Landing Rd., IN	Vacant-Platted Lot	1.9	1.2		Richard, Wilma Jean		
14	31-20-11-100-004.000-009	Morvins Landing Rd., IN	Vacant-Platted Lot	3.5	4.4		Richard, Wilma Jean		
15	31-20-02-300-007.000-009	Hwy. 11 SW, IN	Vacant Land	21.3	20.3		Richard, Wilma Jean		
16	31-20-02-300-008.000-009	Hwy. 11 SW, IN	Vacant Land	11.1	8.6		Richard, Wilma Jean		
17	31-20-02-300-004.000-009	Hwy. 11 SW, IN	Vacant Land	48.5	43		Richard, Wilma Jean		
18	31-20-11-100-002.000-009	Morvins Landing Rd., IN	Cash Grain/General Farm	14.627	20.47		Worley, James L. & Mildred K. Co-Trustee	Non-wetland forested riparian corridor along river	< 9' Water at shore
19	31-20-11-100-006.000-009	Morvins Landing Rd., IN	Vacated Platted Lot	1.115	1.26		Worley, James L. & Mildred K. Co-Trustee	Non-wetland forested riparian corridor along river	< 9' Water at shore
20	31-20-03-300-010.000-009	Hwy. 111 SW IN	Vacant Land	42.679	29.861		Sherman, Ralph E. & Barbara K.	Non-wetland forested riparian corridor along river, and all along left edge of property	< 9' Water at shore
21	31-20-04-400-002.000-009	Hwy. 11 SW IN	Vacant Land	22.384	20		River Marina, Inc.	Non-wetland forested riparian corridor along river	< 9' Water at shore
22	31-20-04-400-001.000-009	Hwy. 11 IN	Vacant Land	19.043	19.128		River Marina, Inc.	Non-wetland forested riparian corridor along river	< 9' Water at shore
23	31-20-04-153-006.010-010	3780 W Hwy. 11 SW Ln	Vacant-Platted Lot	0.912	0		Town of Mauckport	Non-wetland forested riparian corridor along river	< 9' Water at shore
24	31-20-04-157-002.000-009	River Rd. Mauckport, IN	Vacant Land	12.887	13		Joanne Timerlake (Contacted the County?)	Non-wetland forested riparian corridor along river	< 9' Water at shore
25	31-20-05-200-003.000-009	River Rd., IN	Cash Grain/General Farm	15.883	14.75		Joanne Timerlake (Contacted the County?)	Non-wetland forested riparian corridor along river	< 9' Water at shore

26	31-20-05-200-001.000-009	River Rd., IN	Cash Grain/General Farm	38.633	31.099		Richard, denver R. & Wilima J.	Non-wetland forested riparian corridor along river	< 9' Water at shore
27	31-17-32-300-003.000-009	River Rd., IN	Cash Grain/General Farm	53.414	61.5		Timberlake, Arthur R. & Alice C., Jr. Tnts	Non-wetland forested riparian corridor along river	< 9' Water at shore
28	31-17-32-300-001.000-009	River Rd., IN	Cash Grain/General Farm	38.109	44.765		Denzinger, Charles K.	Wetlands present along left side and Non-wetland forested riparian corridor along river	
29	31-17-31-200-003.000-009	River Rd., IN	Cash Grain/General Farm	32.502	34.001	1	Cannon, Le Roy	Forested Wetlands present in the middle of site and Non-wetland forested riparian corridor along river	

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Potential Sites

#	Parcel Number	Owner	Address	Total Acreage	Adj. Acreage	Property Status	Buildings	Road Access	Wetlands*	River Info**	Notes	Letter Respondents
1a	31-15-12-400-007.000-015	McBride, G Wayne & Gail A.	Stucky Road Elizabeth, IN	21.1	21.0	Other Agricultural Use		Hwy. 111	Freshwater Emergent and Forested Wetland present in middle of site and Non-wetland forested riparian corridor along river	< 9' Water at shore		
1b	31-15-13-100-001.000-015	McBride, G Wayne & Gail A.	Doolittle Hill Rd. SE Elizabeth, IN	71.0	72.4	Vacant Land		Hwy. 111	Freshwater Forested/Shrub wetland in middle of site, Non-wetland forested riparian corridor along river	Visible Wreck; < 9' Water at shore	Has plots across the street	
1c	31-15-13-200-001.000-015	McBride, G Wayne & Gail A.	2400 Hwy. 111 SE Elizabeth, IN	18.4	26.8	Other Residential Structures	1	Hwy. 111	Non-wetland forested riparian corridor along river	< 9' Water at shore		
2a	31-15-24-300-005.000-015	Fink, Lou Alice	3805 Hwy 111 SE, IN	132.6	138.3	Cash Grain/ General Farm	4	Hwy. 111	Non-wetland forested riparian corridor along river	< 9' Water at shore	Has a plot across the street	
2b	31-15-25-100-001.000-015	Fink, Lou Alice	Hwy 111 SE Elizabeth, IN	77.2	79.9	Vacant Land		Hwy. 111	Non-wetland forested riparian corridor along river	< 9' Water at shore	Has a plot across the street	
3	31-15-25-100-005.000-015	Weisenbach, Ray F.	4345 Hwy. 111 SE, Elizabeth, IN	40.5	43.2	Vacant Land		Hwy. 111	Non-wetland forested riparian corridor along river	< 9' Water at shore		
4	31-15-25-300-005.000-015	Bowling, Eddie W. & Barbara B.	4670 Hwy. 111 SE, Elizabeth, IN	19.5	18.0	Cash Grain/ General Farm	1	Hwy. 111	Non-wetland forested riparian corridor along river			
5	35-15-25-300-010.000-015	Hoke, Burl, Andra K., & Doris	4855 Hwy. 111 SE, IN	69.2	67.9	Cash Grain/ General Farm	4	Hwy. 111	Non-wetland forested riparian corridor along river, and wetland line running through middle of site		Possible erosion problem (Elizabeth Water Company); plot across the street	
6	31-19-01-100-001.000-015	Bkw, Lic	Hwy. 111 SE Elizabeth, IN	35.2	32.3	Vacant Land		Hwy. 111	Non-wetland forested riparian corridor along river, and emergent wetland in middle of site	< 9' Water at shore	Stream running through; plot across the street	Possible owner Brian Welsh, in which case Yes he would be willing
7a	31-20-11-100-005.000-009	Richard, Wilma Jean	Morvins Landing Rd., IN	11.1	15.7	Cash Grain/ General Farm		Morvins Landing Rd. SW	Non-wetland forested riparian corridor along river	< 9' Water at shore		
7b	31-20-11-100-003.000-009	Richard, Wilma Jean	Morvins Landing Rd., IN	1.9	1.2	Vacant-Platted Lot		Morvins Landing Rd. SW				
7c	31-20-11-100-004.000-009	Richard, Wilma Jean	Morvins Landing Rd., IN	3.5	4.4	Vacant-Platted Lot		None				
7d	31-20-02-300-007.000-009	Richard, Wilma Jean	Hwy. 11 SW, IN	21.3	20.3	Vacant Land		Hwy. 11			Stream running through	
7e	31-20-02-300-008.000-009	Richard, Wilma Jean	Hwy. 11 SW, IN	11.1	8.6	Vacant Land		Morvins Landing Rd. SW			Stream running through	
7f	31-20-02-300-004.000-009	Richard, Wilma Jean	Hwy. 11 SW, IN	48.5	43.0	Vacant Land		Hwy. 11			Stream running through	
8	31-20-03-300-010.000-009	Sherman, Ralph E. & Barbara K.	Hwy. 11 SW, IN	28.7	34.8	Vacant Land		None	Non-wetland forested riparian corridor along river, and all along left edge of property	< 9' Water at shore	Stream running through, Adjoining property immediately north for further development, with plot across the street (Different owner: Denzinger, Chrales K.)	
9a	31-20-04-400-002.000-009	River Marina, Inc.	Hwy. 11 SW, IN	22.4	20.0	Vacant Land		Hwy. 11	Non-wetland forested riparian corridor along river	< 9' Water at shore		Possible owner Art Mengle, in which case Yes he would be willing
9b	31-20-04-400-001.000-009	River Marina, Inc.	Hwy. 11, IN	19.0	19.1	Vacant Land		Hwy. 11	Non-wetland forested riparian corridor along river	< 9' Water at shore		Possible Owner Art Mengle, in which case Yes he would be willing
10a	31-20-04-178-007.000-010	Kingsley, Stanley	Water Street Mauckport, IN 47142	1.0	0.0	Other Residential Structures	1	Walnut St. SW	Non-wetland forested riparian corridor along river	< 9' Water at shore	Next to Mauckport Boat Dock	
10b	31-20-04-178-006.000-010	Kingsley, Stanley	Water Street Mauckport, IN 47142	0.9	0.0	Vacant-Platted Lot		Main St. SW	Non-wetland forested riparian corridor along river	< 9' Water at shore	Next to Mauckport Boat Dock	

#	Parcel Number	Owner	Address	Total Acreage	Adj. Acreage	Property Status	Buildings	Road Access	Wetlands*	River Info**	Notes	Letter Respondents
10	31-20-04-153-006.010-010	Town of Mauckport	3780 W Hwy. 11 SW Ln, IN	0.9	0.0	Vacant-Platted Lot		Main St. SW	Non-wetland forested riparian corridor along river	< 9' Water at shore	Next to Mauckport Boat Dock	Yes/No
11a	31-20-04-157-002.000-009	Joanne Timerlake	River Rd. Mauckport, IN	12.9	13.0	Vacant Land		River Rd. SW	Non-wetland forested riparian corridor along river	< 9' Water at shore		
11b	31-20-05-200-003.000-009	Joanne Timerlake	River Rd., IN	15.9	14.8	Cash Grain/ General Farm		None	Non-wetland forested riparian corridor along river	< 9' Water at shore		
12	31-20-05-200-001.000-009	Richard, Denver R. & Wilma J.	River Rd., IN	38.6	31.1	Cash Grain/ General Farm		None	Non-wetland forested riparian corridor along river	< 9' Water at shore		
13	31-17-32-300-001.000-009	Denzinger, Charles K.	River Rd., IN	38.1	44.8	Cash Grain/ General Farm		River Rd. SW	Wetlands present along left side and Non-wetland forested riparian corridor along river	**Less then 2 miles from Haunted Hallow Mussel Beds**	Has a plot across the street	
14	31-17-31-200-003.000-009	Cannon, Le Roy	River Rd., IN	32.5	34.0	Cash Grain/ General Farm	1	River Rd. SW	Forested Wetlands present in the middle of site and Non-wetland forested riparian corridor along river	**1.6 miles from Haunted Hallow Mussel Beds**	Contributing Historical Landmark***	

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory
** From U.S. Army Corps of Engineers, Ohio River Navigation Charts
*** Historical Landmarks gathered from Harrison County Interim Report

	Willing
	Possibly willing
	No response

Potential Sites Near the Junction of 211 and 111:

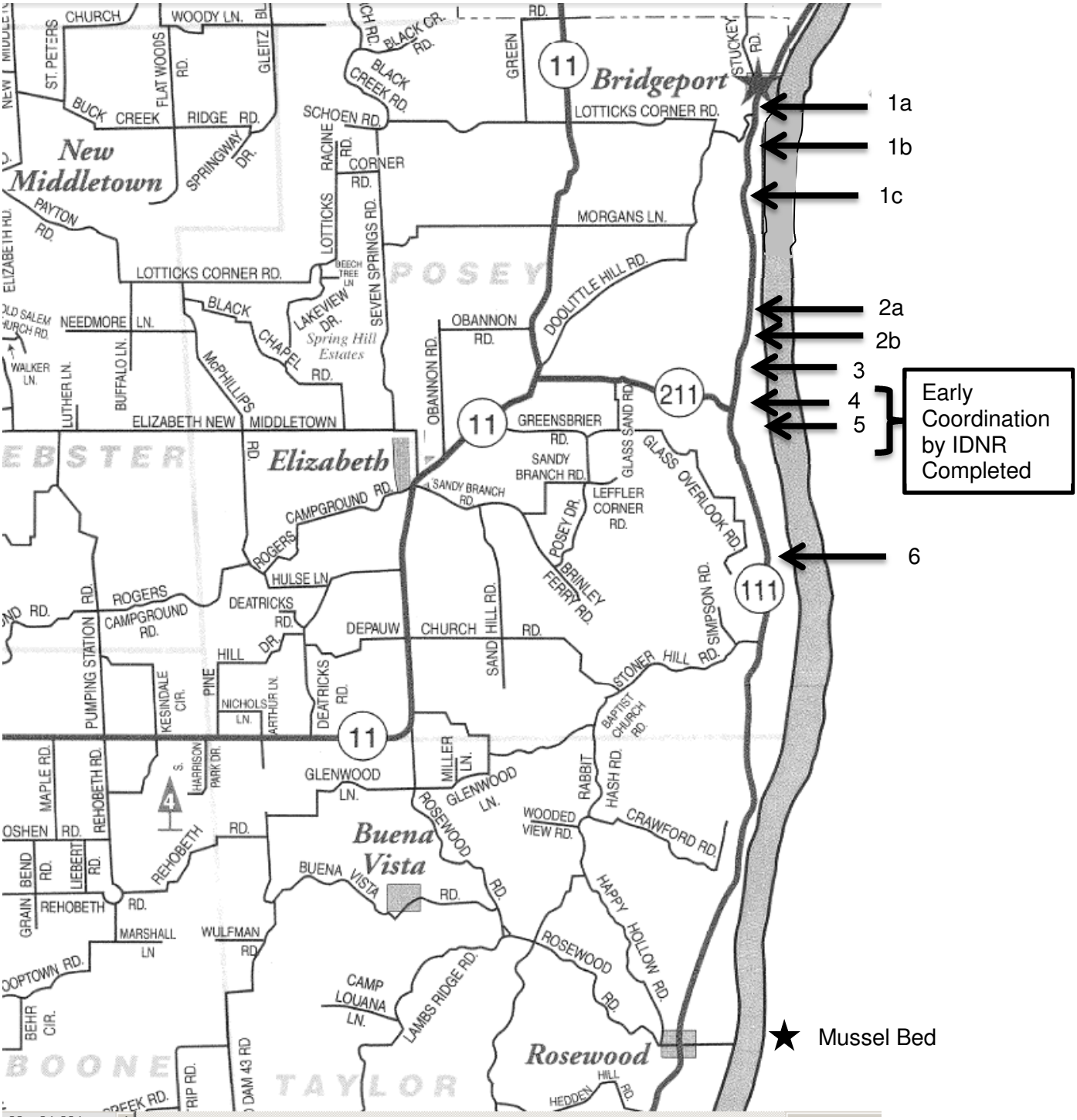
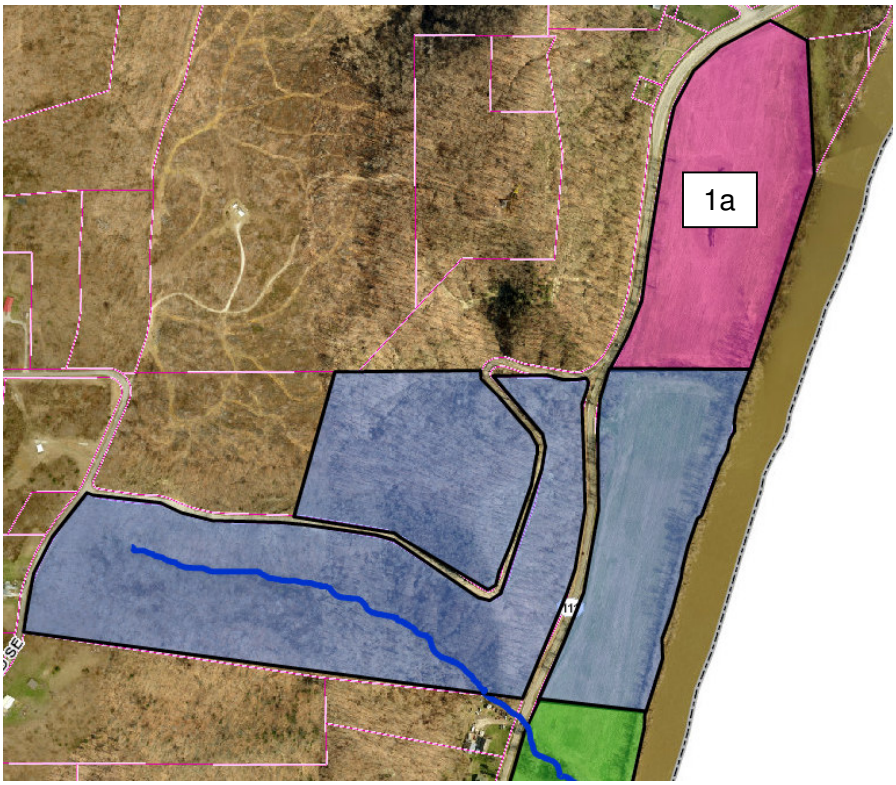


Figure 1: Location of Potential Sites near the Junction of 211 and 111

Site 1a:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
1a	31-15-12-400-007.000-015	Stucky Road Elizabeth, IN	Other Agricultural Use	21.1	21	

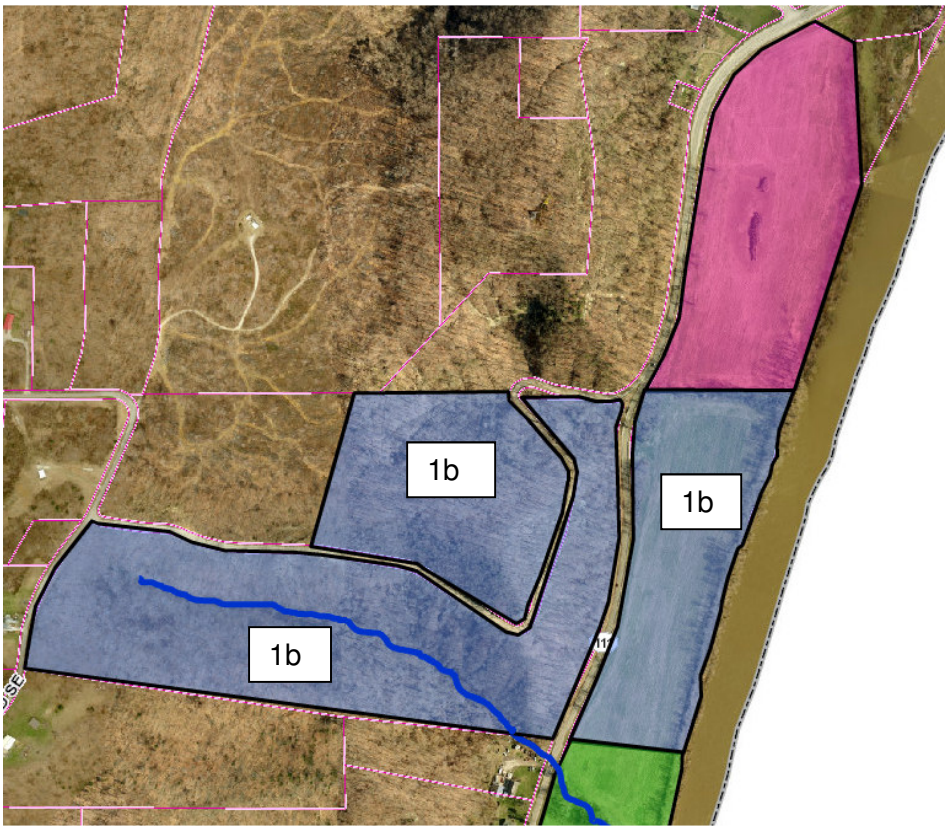
#	Wetlands*	River Info**
1a	Freshwater Emergent and Forested Wetland present in middle of site and Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 1b:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
1b	31-15-13-100-001.000-015	Doolittle Hill Rd. SE Elizabeth, IN	Vacant Land	71.0	72.4	Has Plots Across the Street

#	Wetlands*	River Info**
1b	Freshwater Forested/Shrub Wetland in middle of site, and Non-wetland forested riparian corridor along river	Visible Wreck, < 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 1c:

#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
1c	31-15-13-200-001.000-015	2400 HWY 111 SE, Elizabeth, IN	Other Residential Structures	18.4	26.8	1 Structure

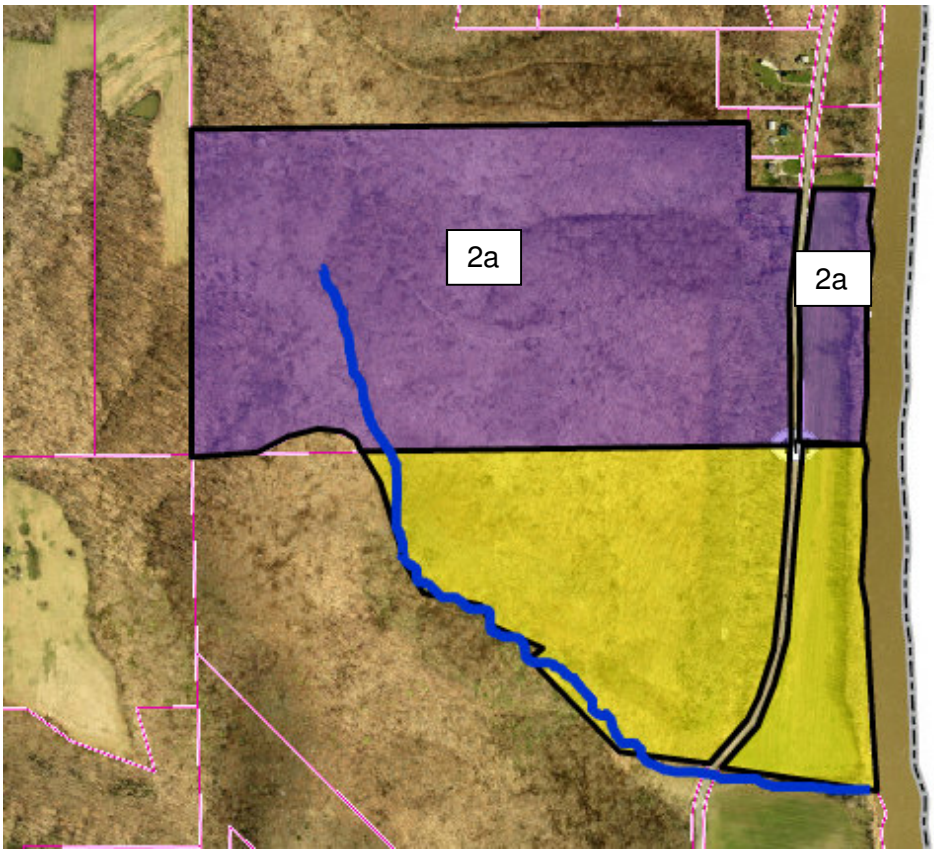
#	Wetlands*	River Info**
1c	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 2a:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
2a	31-15-24-300-005.000-015	3805 Hwy 111 SE, IN	Cash Grain/ General Farm	132.6	138.3	4 Structures, Plots Across the Street

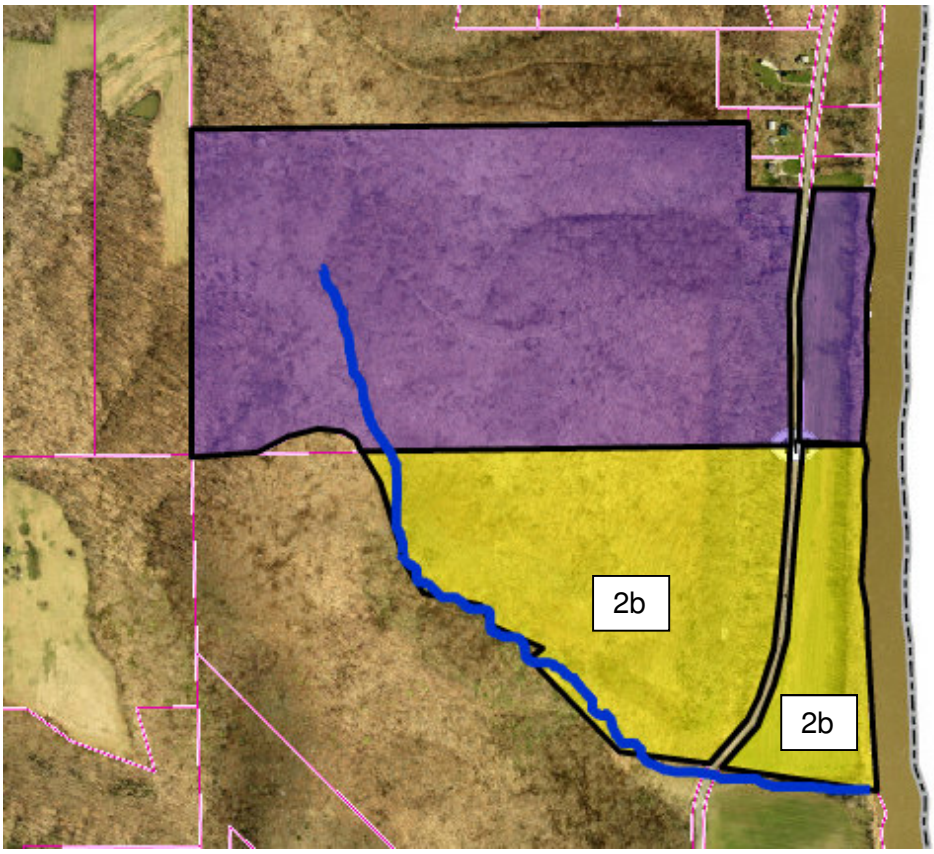
#	Wetlands*	River Info**
2a	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 2b:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
2b	31-15-25-100-001.000-015	Hwy 111 SE, Elizabeth, IN	Vacant Land	77.2	79.9	Has Plot Across the Street

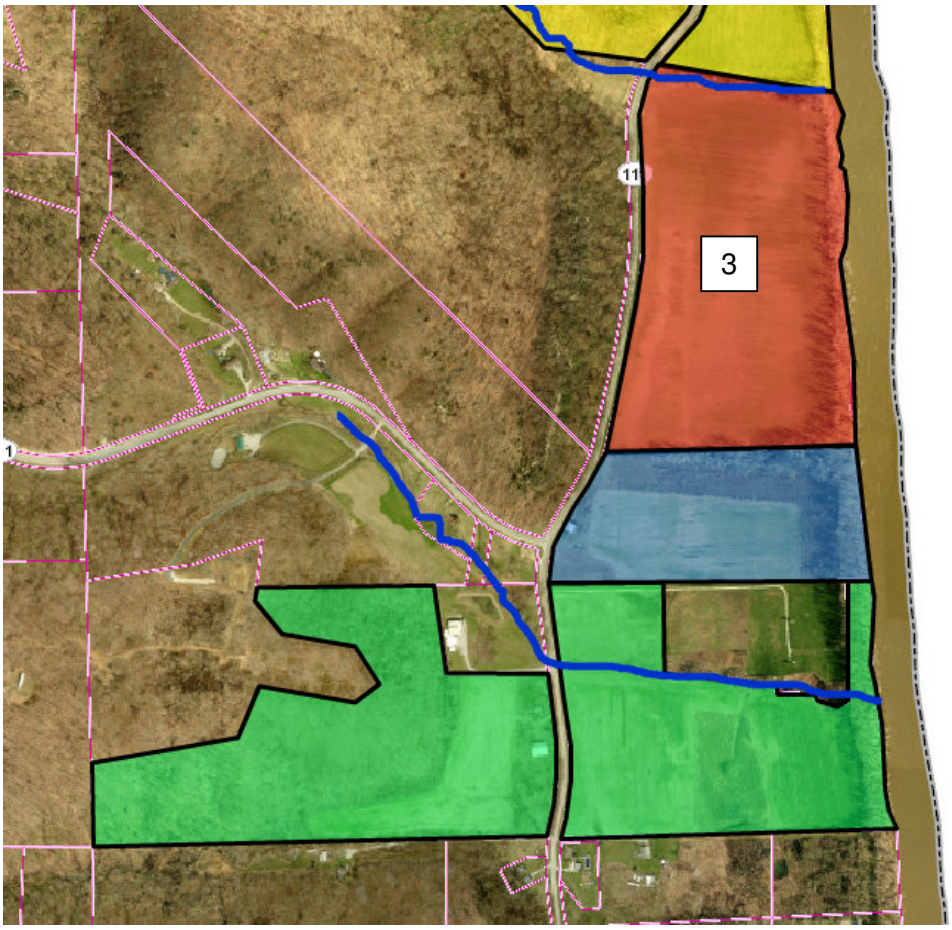
#	Wetlands*	River Info**
2b	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 3:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
3	31-15-25-100-005.000-015	4345 Hwy. 111 SE, Elizabeth, IN	Vacant Land	40.5	43.2	

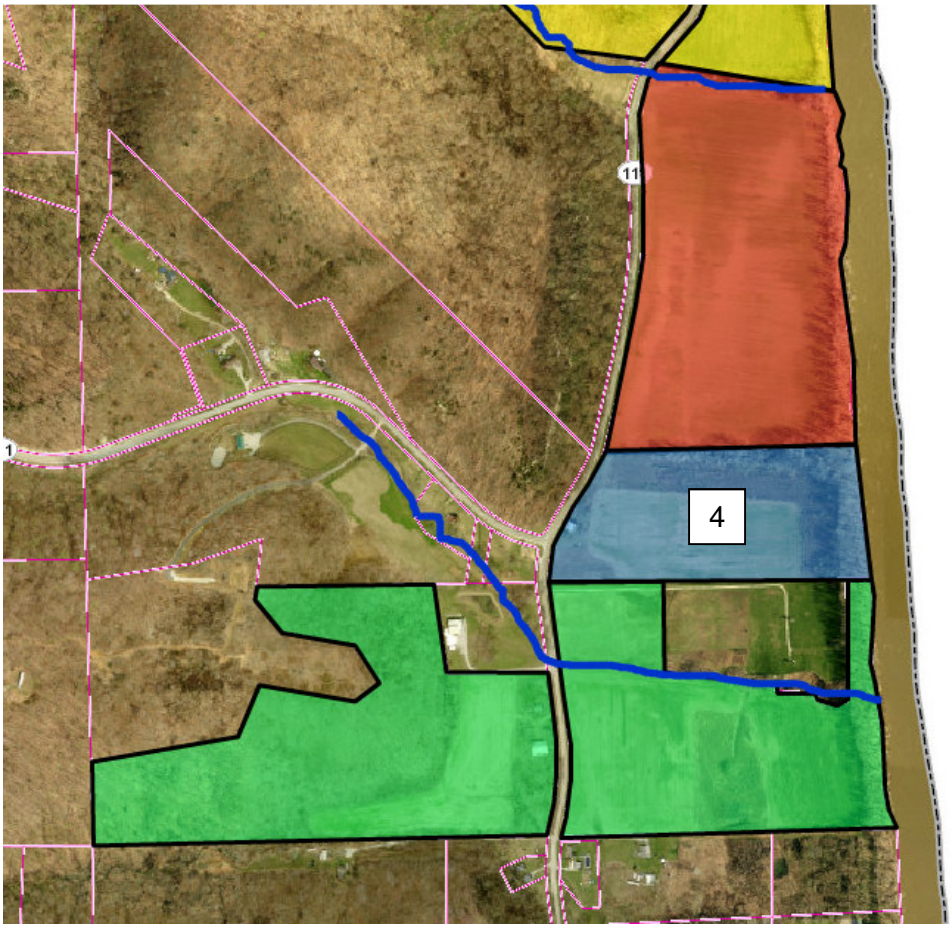
#	Wetlands*	River Info**
3	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 4:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
4	31-15-25-300-005.000-015	4670 Hwy. 111 SE, Elizabeth, IN	Cash Grain/ General Farm	19.5	18.0	1 Structure

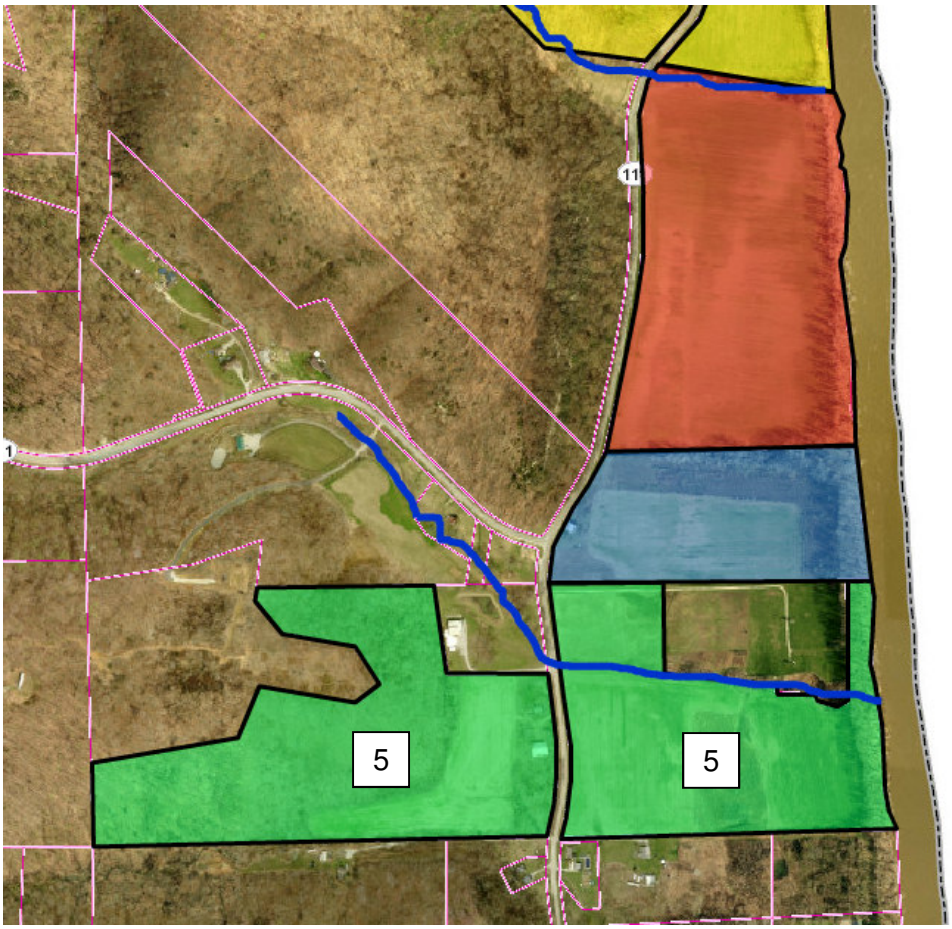
#	Wetlands*	River Info**
4	Non-wetland forested riparian corridor along river	

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 5:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
5	35-15-25-300-010.000-015	4855 Hwy. 111 SE, IN	Cash Grain/ General Farm	69.2	67.9	4 Structures, Plot Across the Street, Possible Erosion Problem

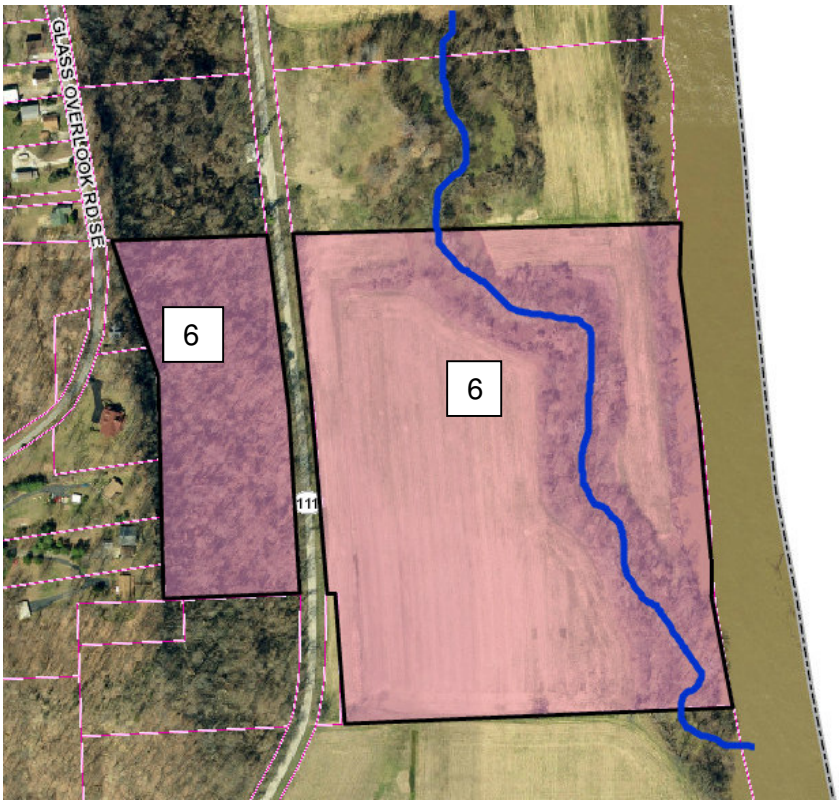
#	Wetlands*	River Info**
5	Non-wetland forested riparian corridor along river, and wetland line running through middle of site	

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 6:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
6	31-19.01-100-001.000-015	Hwy. 111 SE, Elizabeth, IN	Vacant Land	35.2	32.3	Has Plot Across the Street

#	Wetlands*	River Info**
6	Non-wetland forested riparian corridor along river, and emergent wetland in middle of site	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Potential Sites Near Mauckport:

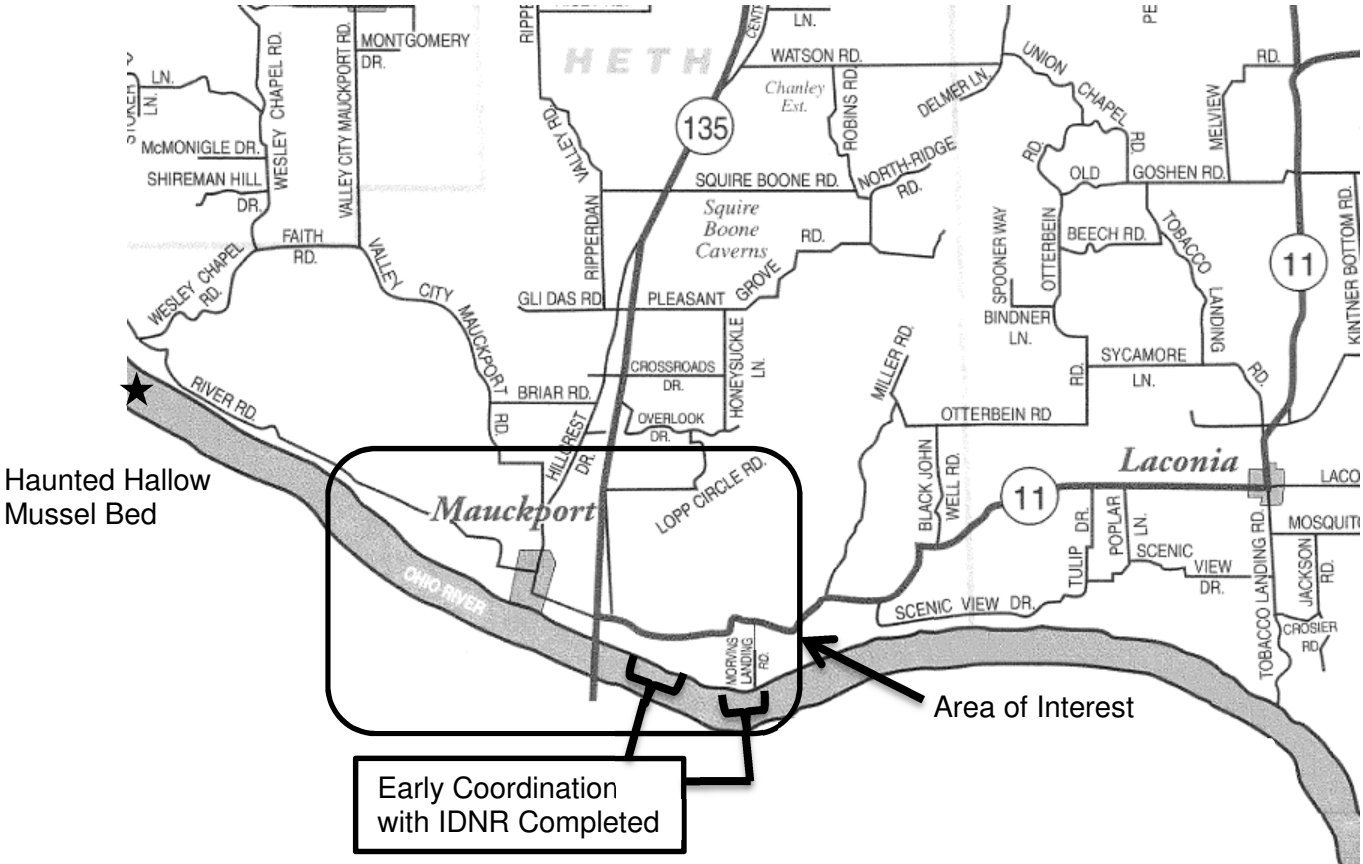


Figure 7: Area of Interest near Mauckport

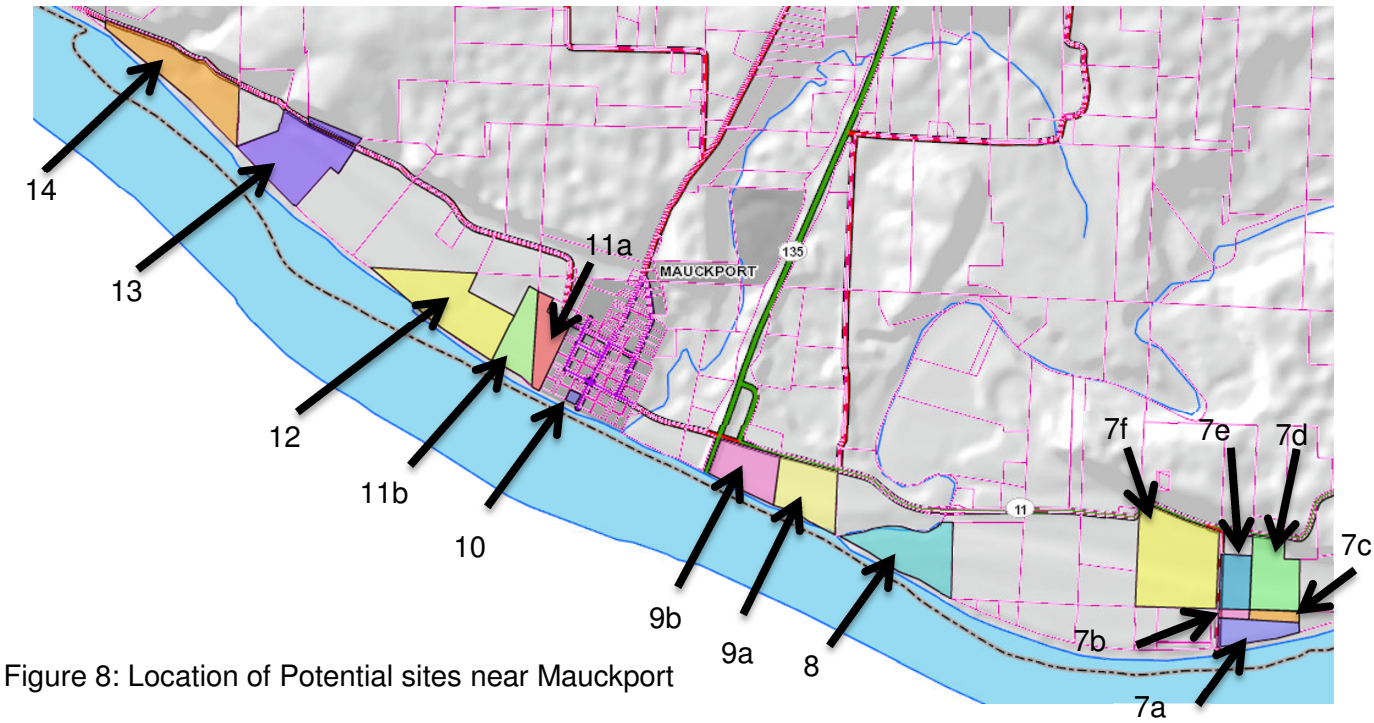


Figure 8: Location of Potential sites near Mauckport

S:\COL\4000--4099\4055\005\Wrd\Potential Sites Reviewed.docx

Site 7:

#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
7a	31-20-11-100-005.000-0009	Morvins Landing Rd., IN	Cash Grain/ General Farm	11.1	15.7	
7b	31-20-11-100-003.000-009	Morvins Landing Rd., IN	Vacant-Platted Lot	1.9	1.2	
7c	31-20-11-100-004.000-0109	Morvins Landing Rd., IN	Vacant-Platted Lot	3.5	4.4	
7d	31-20-02-300-007.000-009	Hwy. 11 SW, IN	Vacant Land	21.3	20.3	Stream running through
7e	31-20-02-300-008.000-009	Hwy. 11 SW, IN	Vacant Land	11.1	8.6	Stream running through
7f	31-20-02-300-004.000-009	Hwy. 11 SW, IN	Vacant Land	48.5	43.0	Stream running through

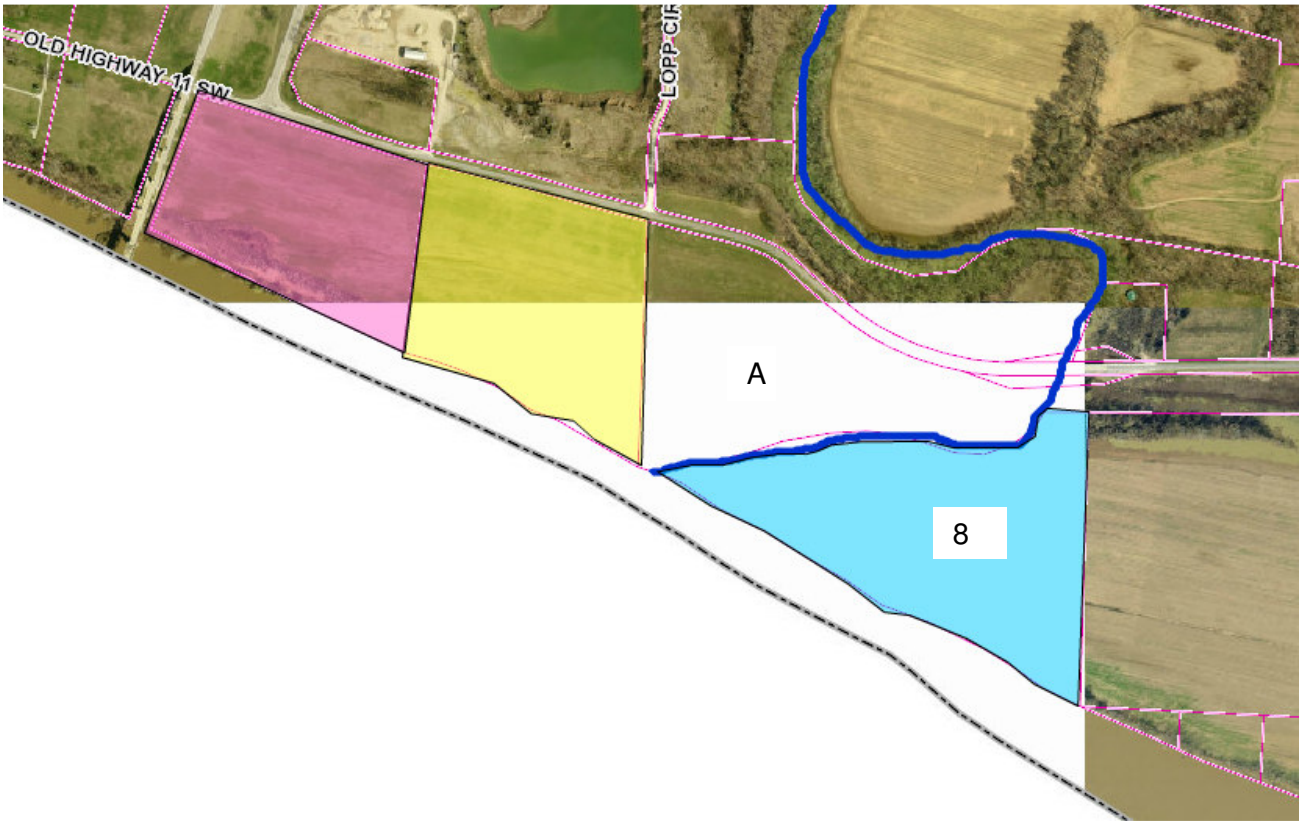
#	Wetlands*	River Info**
7a	Non-wetland forested riparian corridor along river	< 9' Water at shore
7b		
7c		
7d		
7e		
7f		

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory
** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

No additional wetlands, environmental issues, or historical sites were noted on the adjacent properties.

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRM.

Site 8:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
8	31-20-03-300-001.000-009	Hwy. 111 SW, IN	Vacant Land	28.7	34.8	Along Buck Creek

#	Wetlands*	River Info**
8	Non-wetland forested riparian corridor along river, and all along left edge of property	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory
** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

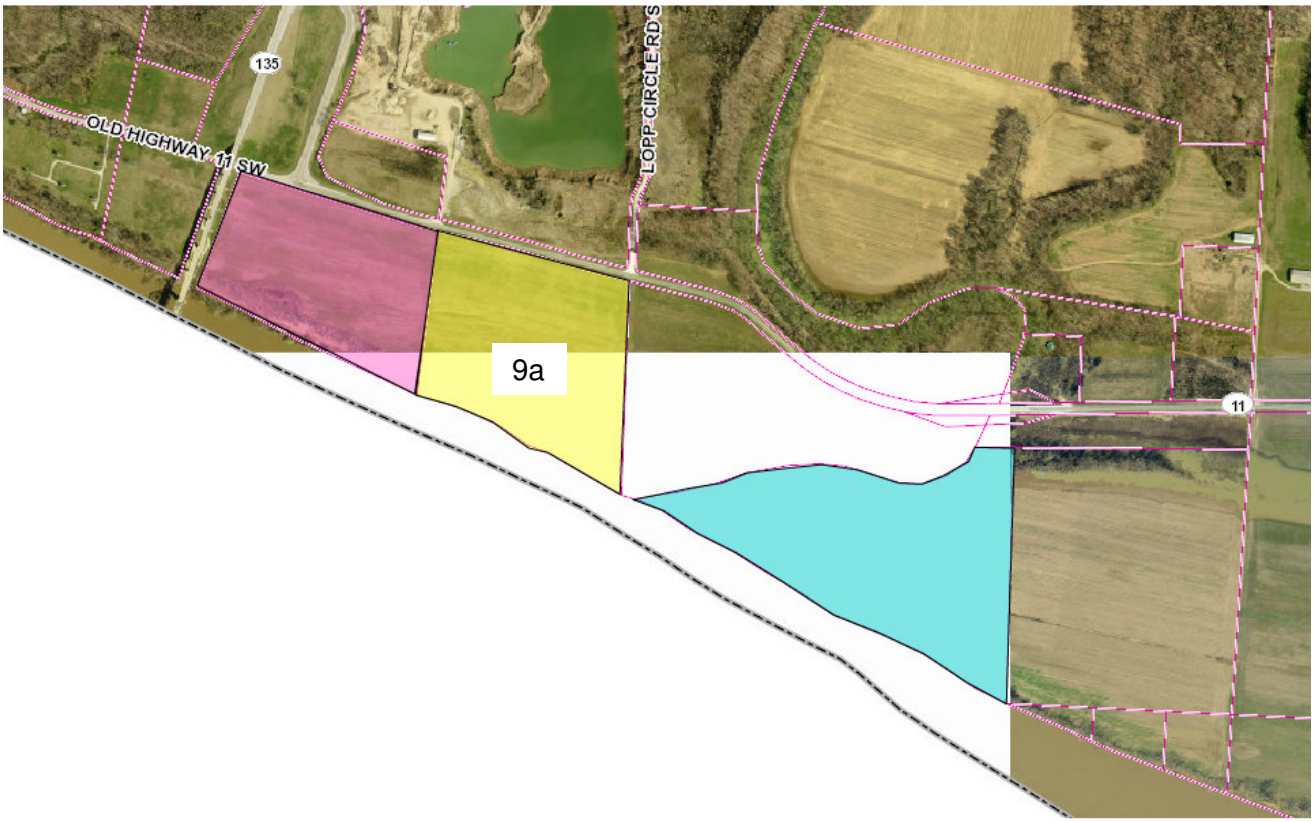
Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 8 Adjacent Property Notes:
Owners notated by letters on the above map
"A" - Denzinger, Charles K. (Total Acreage: 42.7, Adjusted Acreage: 29.9)

Freshwater Forested/Shrub wetland noted along Buck Creek. No additional environmental issues, or historical sites were noted on the adjacent property.

S:\COL\4000--4099\4055\005\Wrd\Individual Sites\Site 8.docx

Site 9a:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
9a	31-20-04-400-002.000-009	Hwy. 11 SW, IN	Vacant Land	22.4	20	

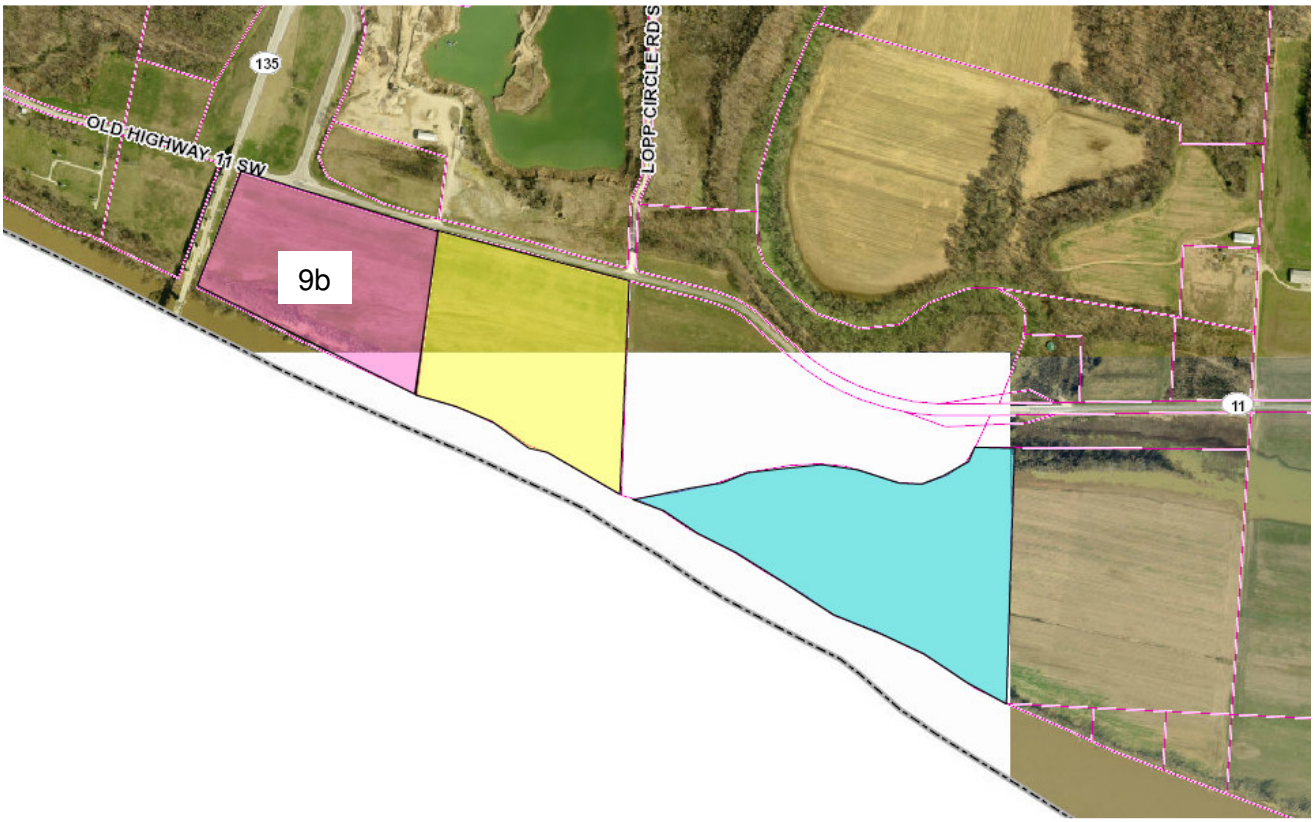
#	Wetlands*	River Info**
9a	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 9b:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
9b	31-20-04-400-001.000-009	Hwy. 11, IN	Vacant Land	19.0	19.1	

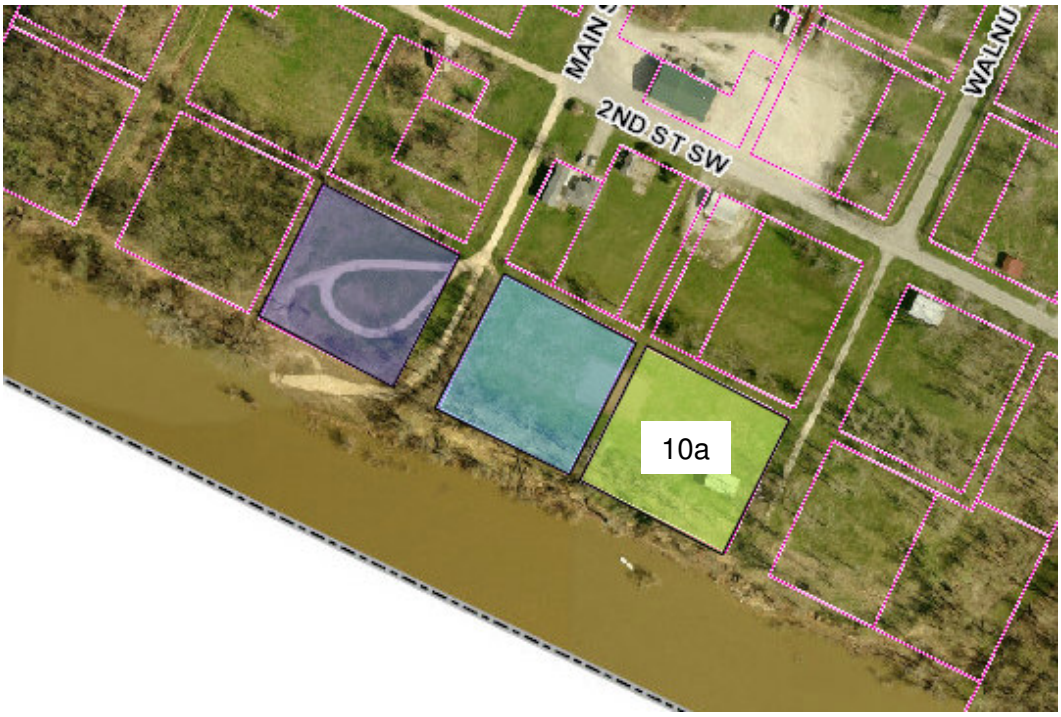
#	Wetlands*	River Info**
9b	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 10a:



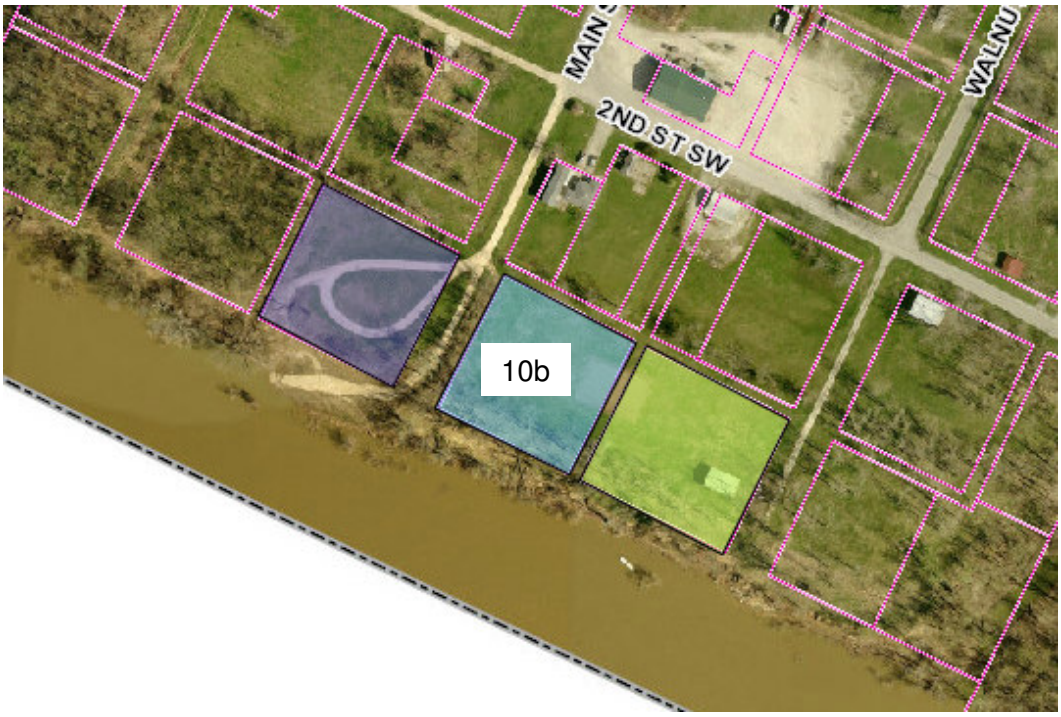
#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
10a	31-20-04-178-007.000-010	Water Street, Mauckport, IN	Other Residential Structures	0.9	0	Next to Mauckport Boat Dock

#	Wetlands*	River Info**
10a	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory
** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 10b:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
10b	31-20-04-178-006.010-010	Water Street, Mauckport, IN	Vacant-Platted Lot	0.9	0	Next to Mauckport Boat Dock

#	Wetlands*	River Info**
10b	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 10:

#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
10	31-20-04-153-006.010-010	3780 W Hwy. 11 SW Ln, IN	Vacant-Platted Lot	0.9	0	Next to Mauckport Boat Dock

#	Wetlands*	River Info**
10	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 11a:

#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
11a	31-20-04-157-002.000-009	River Rd., Mauckport, IN	Vacant Land	12.9	13	Contacted the County?

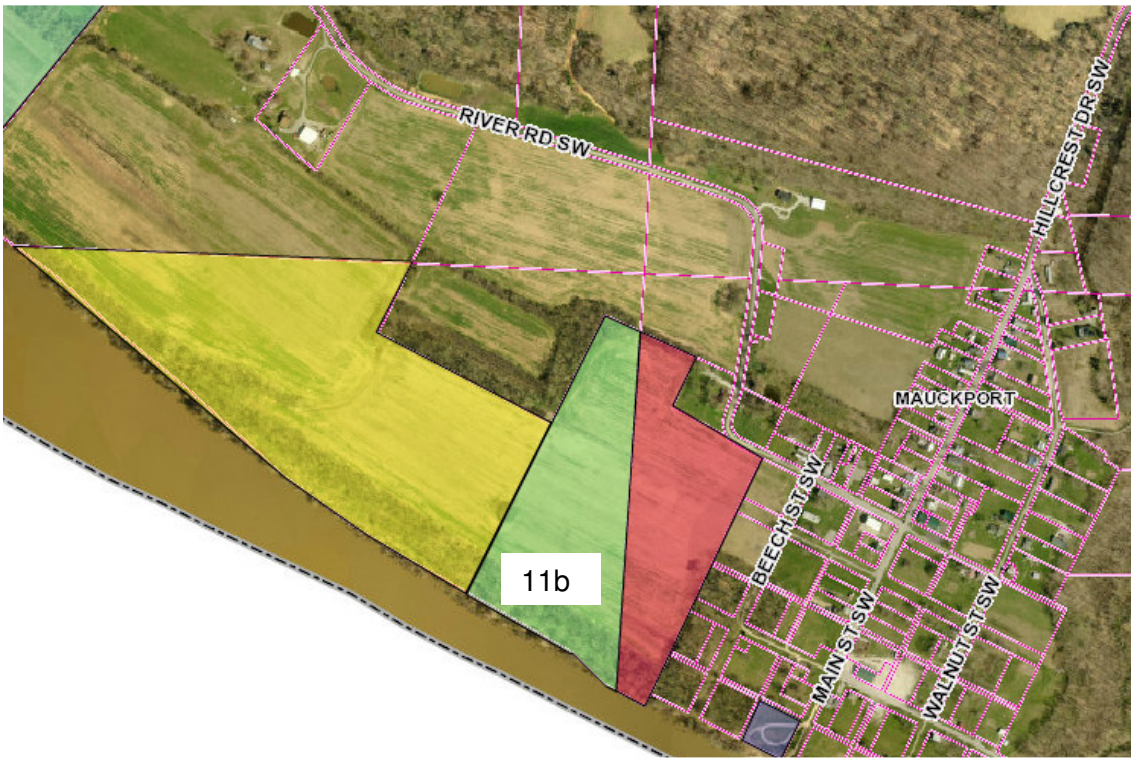
#	Wetlands*	River Info**
11a	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 11b:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
11b	31-20-05-200-003.000-009	River Rd., IN	Cash Grain/ General Farm	15.9	14.8	Contacted the County?

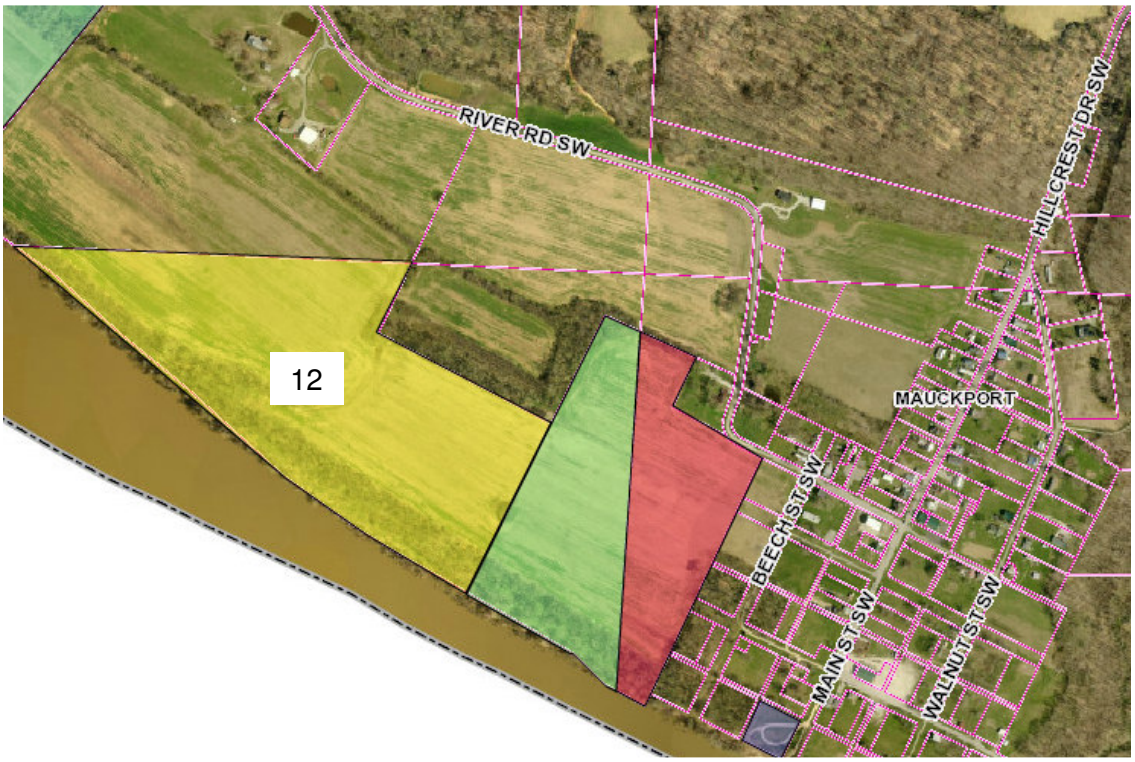
#	Wetlands*	River Info**
11b	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 12:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
12	31-20-05-200-001.000-009	River Rd., IN	Cash Grain/ General Farm	38.6	31.1	Have plot across the street

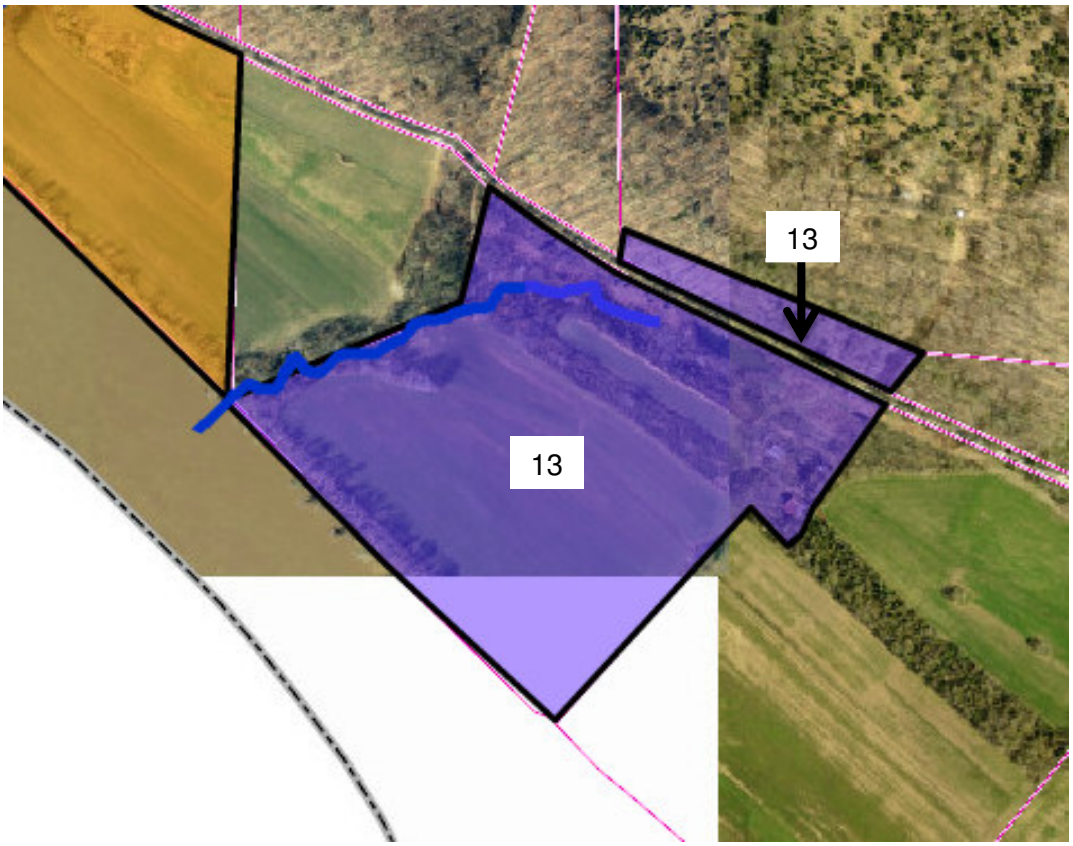
#	Wetlands*	River Info**
12	Non-wetland forested riparian corridor along river	< 9' Water at shore

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 13:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
13	31-17-32-300-001.000-009	River Rd., IN	Cash Grain/ General Farm	38.1	44.8	

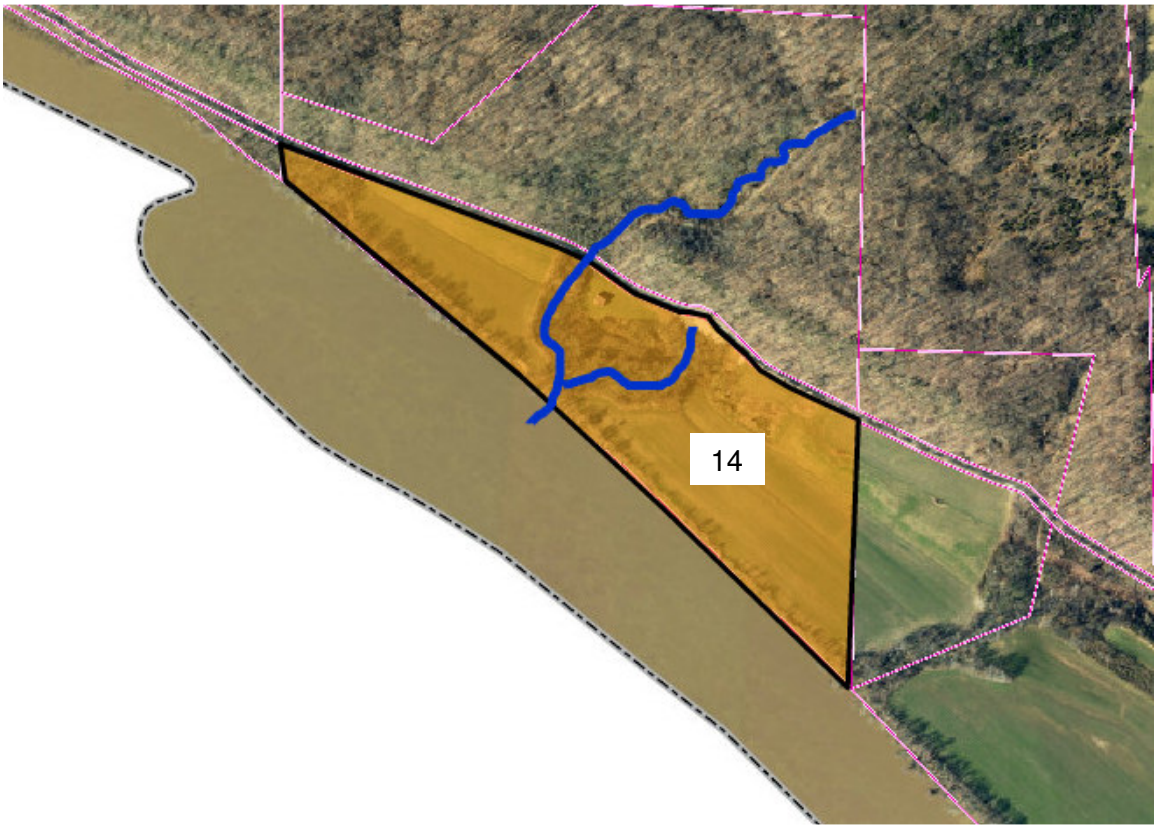
#	Wetlands*	River Info**
13	Wetlands present along left side and Non-wetland forested riparian corridor along river	**Less then 2 miles from Haunted Hallow Mussel Beds**

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory

** From U.S. Army Corps of Engineers, Ohio River Navigation Charts

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

Site 14:



#	Parcel Number	Address	Property Status	Total Acreage	Adj. Acreage	Notes
14	31-17-31-200-003.000-009	River Rd, IN	Cash Grain/ General Farm	32.5	34.0	1 Structure, Contributing Historical Landmark***

#	Wetlands*	River Info**
14	Forested Wetlands present in the middle of site and Non-wetland forested riparian corridor along river	**1.6 miles from Haunted Hallow Mussel Beds**

* Wetlands were delineated through IndianaMap and U.S. Fish and Wildlife Service, National Wetlands Inventory
** From U.S. Army Corps of Engineers, Ohio River Navigation Charts
*** Historical Landmarks gathered from Harrison County Interim Report

Using IndianaMap's many layers it was found that none of these parcels appear to have any significant environmental issues. It was also seen that all of these parcels fall within floodplains outlined by DFIRMs.

THIS IS NOT A PERMIT

RQAW CORPORATION

DEC 30 2010

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife

Early Coordination/Environmental Assessment

DNR #: ER-15113 **Request Received:** June 17, 2010

Requestor:
RQAW Corporation
Kelley M Aronson
10401 North Meridian Street
Suite 401
Indianapolis, IN 46290-1158

Project: Development of recreational areas along the Ohio River consisting of a boat ramp, restrooms, picnic area, and playground (4 sites); onsite meeting request

County/Site info: Harrison

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

Regulatory Assessment: This proposal will require the formal approval for construction in a floodway under the Flood Control Act, IC 14-28-1. Please submit a copy of this letter with the permit application.

Natural Heritage Database: The Natural Heritage Program's data have been checked.
To date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity.

Fish & Wildlife Comments: We were not able to adequately assess the potential impacts to fish, wildlife and botanical resources resulting from the project with the information provided. However, we offer the following preliminary recommendations based on the information that was provided:

We recommend that the Rosewood site be discarded as a potential boat ramp site due to a known mussel bed that exists near the Indiana side of the Ohio River at that location. Also at the Rosewood site, part of the forested riparian corridor along the Ohio River is listed as forested wetland by the National Wetland Inventory (NWI) maps.

The Morvins Landing and SR 211 sites do not appear to contain wetlands according to the NWI maps; however, only a wetlands determination can positively rule out the presence of wetlands. These sites, as with the other sites, include non-wetland forested riparian corridors along the river which will be impacted by the construction of a boat ramp and related facilities. There appears to be no documented mussel resources close to the sites.

The Mauckport site is at the confluence of Buck Creek and the Ohio River. Part of the forested riparian corridor at the confluence of these two waterways is listed as forested wetland by the NWI maps. The Haunted Hollow mussel bed is located close to the mouth of Haunted Hollow Creek approximately 3.5 river miles downstream from the Mauckport boat ramp site. With the implementation and maintenance of sound erosion and sediment control practices until all bare and disturbed areas are fully revegetated, construction of the proposed project at this location should not result in significant impacts to the Haunted Hollow mussel bed.

Due to the presence or potential presence of wetlands at these sites, we recommend contacting and coordinating with the Indiana Department of Environmental Management (IDEM) 401 program and also the US Army Corps of Engineers (USACE) 404 program. A wetland determination/delineation is recommended to determine the wetland status of potential boat ramp sites.

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State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife

Early Coordination/Environmental Assessment

Impacts to non-wetland forest under 1 acre should be mitigated at a 1:1 ratio, while impacts to non-wetland forest over 1 acre should be mitigated at a minimum 2:1 ratio. Impacts to wetlands should be mitigated at the appropriate ratio. For more information, see http://www.in.gov/legislative/register/20061213-IR-312060562NRA.xml.pdf.

Fish, wildlife, and botanical resource losses as a result of this project can be minimized through implementation of the following measures and will be a requirement of a permit.
Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue), legumes, and native shrub and hardwood tree species as soon as possible upon completion.
Minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush.
Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
Do not cut any trees suitable for Indiana bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark) from April 1 through September 30.
Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
Plant native hardwood trees along the top of the bank and right-of-way to replace the vegetation destroyed during construction.
Post "Do Not Mow or Spray" signs along the right-of-way.
Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
Seed and protect all disturbed slopes that are 3:1 or steeper with erosion control blankets (follow manufacturer's recommendations for selection and installation; seed and apply mulch on all other disturbed areas.

Contact Staff: Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife

Our agency appreciates this opportunity to be of service. Please do not hesitate to contact the above staff member at (317) 232-4160 or 1-877-928-3755 (toll free) if we can be of further assistance.

Date: December 27, 2010

J. Matthew Buffington
Environmental Supervisor
Division of Fish and Wildlife

THIS IS NOT A PERMIT

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife

Early Coordination/Environmental Assessment

DNR #: ER-15113-1 **Request Received:** January 13, 2012

Requestor:
Strand Associates Inc
Anthony J Akles, PE
629 Washington Street
Columbus, IN 47201-6231

Project: Preparation of a boat ramp study for the construction of boat ramps on the Ohio River at Site 5 (junction of SR 211 and SR 111) and Site 10 (next to Mauckport boat dock)

County/Site info: Harrison

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

Regulatory Assessment: This proposal will require the formal approval for construction in a floodway under the Flood Control Act, IC 14-28-1. Please submit a copy of this letter with the permit application.

Natural Heritage Database: The Natural Heritage Program's data have been checked.
The following plant and animal species have been documented within 1/2 mile of the two project sites, as indicated:

Site 5:
1) ANIMAL
Ohio Pigtoe (Pleurobema cordatum) - special concern
2) PLANTS
a) Illinois Blackberry (Rubus centralis) - state endangered
b) Downy Gentian (Gentiana puberulenta) - state threatened
c) Long-awn Hairgrass (Muhlenbergia capillaries) - state endangered
d) Golden Alexanders (Zizia aptera) - state rare

All of the listed plants above, except the Illinois Blackberry, are plants that are found on dry hillsides in a limestone glade community. There would not likely be any impacts to these plants resulting from the boat ramp site. Since the Illinois Blackberry is a historical presence, the Division of Nature Preserves anticipates no impacts to this species, as well as the other plant species.

Site 10:
1) ANIMALS
a) Peregrine Falcon (Falco peregrines) - state endangered
b) Allegheny Woodrat (Neotoma magister) - state endangered
2) PLANT
Bottomland Broomrape (Orobanche riparia) - state endangered

The Bottomland Broomrape is a floodplain species and has been mapped on high level terraces very close to the project area. It is more likely to be found on Site 10a or 10b rather than the previously disturbed Site 10. For Site 10, the Division of Nature Preserves recommends that the proposed boat ramp be built in the previously disturbed site.

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State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife

Early Coordination/Environmental Assessment

Fish & Wildlife Comments: The following are comments regarding the listed animal species above.

1) Ohio Pigtoe:
Since areas for the boat ramps are far removed from mussel bed locations, and construction activities should be minimal, we do not foresee any impacts to this species.

2) Peregrin Falcon:
A Peregrin Falcon pair was known to occur at the SR 135 bridge a few years ago, but they have not been seen in recent years. The proposed boat ramp near Site 10 would not result in impacts to a peregrine falcon pair if they occur at the bridge site again in the future.

3) Allegheny Woodrat:
We do not foresee any impacts to the Allegheny Woodrat resulting from the project.

If Site 5 (SR 111 and SR 211) is selected, we recommend:
- Avoiding impacts to the creek flowing through the middle of the site and to its forested riparian corridor.
- Minimizing impacts to the Ohio River's forested riparian corridor and mitigate impacts as follows:
  a) Impacts to non-wetland forest under 1 acre should be mitigated at a 1:1 ratio.
  b) Impacts to non-wetland forest over 1 acre should be mitigated at a minimum 2:1 ratio.

If Site 10 (Mauckport) is selected, we recommend:
- Minimizing impacts to the Ohio River's forested riparian corridor and mitigate impacts as follows:
  a) Impacts to non-wetland forest under 1 acre should be mitigated by planting 5 trees 1" to 2" in diameter-at-breast height (dbh) for each tree which is removed that is 10" dbh or greater.
  b) Impacts to non-wetland forest over 1 acre should be mitigated at a minimum 2:1 ratio.

Provide a smooth surface along the banks by using open-celled concrete block mats instead of riprap for bank armoring. Revegetate the area with native herbaceous species (any native seed mix should contain at least 10 species including native grasses and sedges).

If riprap is used, naturalize the riprap area by inserting live cuttings through the riprap layer 1-2' into the soil below at a density of 2-6 cuttings per square yard. For more information, see http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17553.wba, page 16-28 (joint planting technique).

The following species are suitable for live cuttings:
- Buttonbush (Cephalanthus occidentalis);
- Silky dogwood (Cornus amomum);
- Gray dogwood (Cornus racemosa);
- Snowberry (Symphoricarpos alba);
- Pussy willow (Salix discolor);
- Sandbar willow (Salix interior);
- Elderberry (Sambucus canadensis);
- Nannyberry (Viburnum lentago); and
- Arrowwood (Viburnum dentatum)

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State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife

Early Coordination/Environmental Assessment

Additional measures that should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources, include the following:

1. Revegetate all bare and disturbed areas in the floodway with a mixture of native grasses, sedges, wildflowers, and also native hardwood trees and shrubs as soon as possible upon completion. Do not use any varieties of Tall Fescue or other non-native plants (e.g. crown-vetch).
2. Minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush.
3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
4. Do not cut any trees suitable for Indiana bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark) from April 1 through September 30.
5. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
6. Plant native hardwood trees along the top of the bank and right-of-way to replace the vegetation destroyed during construction.
7. Post "Do Not Mow or Spray" signs along the right-of-way.
8. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
9. Seed and protect all disturbed slopes that are 3:1 or steeper with erosion control blankets (follow manufacturer's recommendations for selection and installation; seed and apply mulch on all other disturbed areas.

Contact Staff: Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife

Our agency appreciates this opportunity to be of service. Please do not hesitate to contact the above staff member at (317) 232-4160 or 1-877-928-3755 (toll free) if we can be of further assistance.

Date: February 10, 2012

Christie L. Stanifer
Environ. Coordinator
Division of Fish and Wildlife

APPENDIX D
PUBLIC PARTICIPATION

Harrison County Engineer's Office

Harrison County Government Center
245 Atwood Street, Suite 217
Corydon, Indiana 47112

Commissioners
James Goldman
Carl Mathes
Jim Klinstiver

November 7, 2011

RE: Harrison County Boat Ramp Study

Dear Property Owner,

Harrison County has contracted with Strand Associates to coordinate with local and environmental officials to identify two potential sites for an Ohio River boat ramp. These sites would provide public access points to the Ohio River and could also include other amenities such as fishing areas, a shelter-house, a playground, and other recreational amenities. For accessibility purposes, we anticipate that the locations recommended will be reasonably near SR 135 at the Ohio River and SR 211 at the Ohio River, but this will be determined for certain by the study.

You are receiving this letter because you have been identified as an owner of property adjacent to the Ohio River. If you have any information you feel would assist Harrison County in this process, we would like to hear from you. If you would like for your property to be considered for this, or to be specifically left out of consideration, please let us know.

You can contact us by email at k.russel@harrisoncounty.in.gov. You may also contact us by phone or by US mail as shown at the top and bottom of this page.

Sincerely,

Please respond back by?

Kevin J. Russel, PE
Harrison County Engineer

Cc: File

Boat Ramp Study Survey

Property Owner	Address	Phone #	Consider Y/N	Comments	Parcel Number	My Comments
Betty Hardin	100 SR 111		N		31-15-12-400-008.000-015	
William Kopp	3340 HWY 111 SE Elizabeth		Y		31-15-24-200-002.000-015 31-15-24-200-023.000-015	Too Small
Roger Glaze	5365 HWY 111		N		31-15-36-100-024.000-015	Was being considered
Roger Glaze	5265 HWY 111		N		31-15-36-100-020.000-015	Was being considered
Jim King	Near 211		Y			
Mike Jones	Near Evans Knob Rd		N		31-22-08-100-010.000-019	
James L. Worley & Mildred Worley	Down river side of ramps toward Brandenburg Morvin Ferry Landing		N		31-20-11-100-002.000-009 31-20-11-100-006.000-009	2 Parcels were being considered
Dolores Kranjnak	?	(502) 345-6505	Y		31-19-13-300-001.000-019	Possible site, about 3.5 miles south of Junction
Russell & Sharon Scott	?		Y		31-15-13-400-011.000-015	Too Small
David Steen	Cedar Farm (all properties)		N			All along west shore of peninsula
Brian Welsh	5969 HWY 111 S		Y		31-15-36-300-030.000-015 31-19-01-100-001.000-015	Possibly the plots owned by 'Bkw, Lic'
Burl, Doris & Sandy Hoke	right off 211 past the water co property		Y		31-15-25-300-010.000-015	Is being considered
Stanley Kingsley & Holly Kingsley	?		Y	Very adamant about wanting it in Mauckport		Own about 15 Parcels around the Mauckport boat ramp
Michael Summers	1 mile south of HWY 111 & HWY 211 JCT		Y		31-19-01-100-026.000-015	About 14 Acres…a little small
James P Utley			Y		31-15-24-200-005.000-015	Too Small
Terri Allen	?		Y		31-15-36-100-007.000-015?	Too Small
Linda Keller Runden	?		Y		31-12-22-400-004.000-007	Too Far
Chris Walsburger	Bridgeport		Y		31-15-24-200-014.000-015	Too Small
Mary Thompson	3040 HWY 111		N		31-15-24-200-004.000-015	
Wade Smith	16930 Green St. Central		Y		31-16-02-352-002.000-021	Too Small
Doris Jean & Sherman R Crosier	Mauckport		Y		31-20-03-400-004.000-009	Not on shorline, not sure who owns shoreline here
Mary Sheridan	Bottom of Doolittle Hill	813-767-0223	Y		31-19-14-300-009.000-019?	Too far from the shore
Art Mengle	Near Mauckport Bridge	502-817-1203	Y	Archeological permits done. Had been approved by Corp of Engineers	31-20-04-400-001.000-009 31-20-04-400-002.000-009	Possibly the plots owned by 'River Marina Inc.'
Jim Baker	Next to Horseshoe Casino		Y		31-15-12-400-006.000-015	Across street from potential site
JoAnn Board	11605 Rosewood		Y		31-19-35-100-005.000-019 31-19-35-200-002.000-019	Too Small
Frank A. Campisano	?		Y		31-15-24-200-017.000-015	Too Small
Cathy Coffman	?		N		31-16-11-102-002.000-021	
Doug & Sandy Sherman	?		N		31-20-02-400-005.000-009	
Kent Yeager	?		N		31-20-03-200-005.000-009 31-20-10-200-003.000-009	
Town of Mauckport (Robert Crosier	?		N		31-20-04-153-006.010-010	Existing Boat Ramp
Charlie Shiremen	?		N		31-16-11-101-002.000-021	
Larry Key	?	502-552-5219	Y		31-19-24-100-009.010-019	25 Acres, most on wrong side of the road
Jerry Sanders	Donald New Estate	765-346-3014	Y	(son in law to Donald New)	31-15-13-400-001.000-015	Too Small
Diana Sailor	?		Y			Can't find one by the river
Jo Ann Timberlake	?	267-4131	Y		31-20-05-200-003.000-009 31-20-04-157-002.000-009 31-20-04-154-001.000-010 31-20-04-156-001.000-010	2 properties being considered
Town of Corydon	3620 W.Hwy.11, Mauckport	812-738-3958	N	Property is 14.09 acres, used as a water withdrawal facility for the Town of Corydon	31-20-04-300-001.000-009	
Francis Lopp	2 sections ?	812-944-2017	N		31-22-10-200-002.000-019 31-22-03-100-003.000-019	
Daisy M Ward	3360 HWY 111 SE		Y	Directly across from Greenwood boat dock in Louisville KY	31-15-24-200-024.000-015	Too Small
Ed Bowling	4670 HWY 111 SE		Y	18 acres	31-15-25-300-005.000-015	Is being considered
Old Dam 43 Assoc Jack Tonini@gmail.com Jack would like to be contacted anytime discussed on Commissioner agenda	A the end of Old Dam 43		N	14 parcels of property		
Steve Dugan	14405 Hwy 111	502-797-1674	Y	4 acres, utilities present	31-22-08-200-006.000-019 31-22-08-200-009.000-019	Too Small
Elanor Thiemman	9000 HWY 111 SE	502-777-8580	N		31-19-13-300-006.000-019	
Michael Lancia	2890 HWY 111		Y		31-15-13-400-014.000-015	Too Small

Wilima Richard	Old Marvin Ferry Rd		Y		31-20-11-100-005.000-009 31-20-11-100-004.000-009 31-20-11-100-003.000-009 31-20-02-300-007.000-009 31-20-02-300-008.000-009 31-20-02-300-004.000-009	Would be a great place in place of other properties by Morvins Landing
Rick Wrighthouse	Past Doolittle Hill HWY 111		Y		31-15-13-400-005.000-015?	Too Small
Arthur Timberlake	11550 River Rd SW, Mauckport		N		31-17-32-300-003.000-009	Was being considered

Agenda
Public Information Meeting
Harrison County Boat Ramp Study
Harrison County, Indiana
June 20, 2012, 7 P.M.

Meeting Location: First Floor Banquet Room, Harrison County Government Center

Meeting Purpose: Present the Harrison County Boat Ramp Study

1. Welcome and introduction of county officials and consultants.

2. General statement about project and the goals of the study.

3. Presentation of findings included in the draft report.

4. Opportunity for county officials to speak.

4. Informal question and answer.

c: All Participants

STRAND ASSOCIATES®

Meeting Register
Public Information Meeting
Harrison County Boat Ramp Study
Harrison County, Indiana
June 20, 2012, 7 P.M.

Name	Name
Steve Duggan	Clyde Sailor
Anna Curts	Diana Sailor
Teresa Sutton	Glen Burke
Dewayne Keeling	Dolores Krajniak
Richard E. Dale	Steve Boehman
Jack Tonini	Hugh W. Brown
Ralph E. Sherman	M. Kay Harley
Nina Faith	[illegible] Howard
JoAnn Timberlake	Karen [illegible]
Phil Smith	Terri Sanders
[illegible]	Dennis Sanders
Wayne King	George [illegible]
Margaret Kaige	Burl Hoke
J. Gordon Ledon	Steven Day
Jim Klinstiver	
Eric Wise	
Steve Smith	
[illegible]	

Boat Ramp Public Mtg
June 20,2012
7pm
Harrison County Government Ctr.

Name	Address	Phone #
Dr. Kay Harley	308 E. Park Place Jeffersonville, In. 47130	(812) 283-314

Comments:

Source: The Corydon Democrat

Remove Images

Boat ramp site narrowed to 2

by Ross Schulz

June 26, 2012

Nearly 50 Harrison County residents and other interested parties gathered last Wednesday night at the Harrison County Government Center to learn more about the potential Ohio River boat ramp project.

Strand Associates, the group hired to complete the site location study, narrowed the list to two main sites: one near the meeting of state roads 211 and 111 and the other in Mauckport near S.R. 135.

Harrison County's southern border has 45 miles of shoreline along the Ohio River with only one public boat ramp for citizens to use, but the ramp is not well-maintained or suitable for more than a few boats.

The county has 4,198 registered fishing licenses and an additional 9,305 boaters registered in Harrison, Crawford, Floyd and Washington counties.

Strand Associates representative Eric Brunn speaks about the boat ramp project last Wednesday evening at a public meeting in the Government Center in Corydon. *Photo by Ross Schulz*

"A public boat ramp would not only grant river access to Harrison County citizens, but also encourage those from the surrounding counties to visit," a Strand Associates representative said.

The Harrison County Commissioners, if they vote to proceed with the project, will have the final say on which site to select, and then would request funding from the county council.

The estimated total cost of the site near Elizabeth is $1.8 million while the Mauckport site comes in at $1.2 million. Both estimates include the total package of amenities including sports fields, walking paths, concession areas, rest rooms, benches, picnic tables, grills, boat loading piers, parking lots, shelter houses, playgrounds, splash parks and amphitheaters. The Elizabeth site could also include a campground.

The group spoke about multiple grants that could be secured to help pay for the project, including the Harrison County Community Foundation and Land and Water Conservation Fund.

The recommended site near Elizabeth is located immediately south of the intersection of state roads 211 and 111. The parcel is split by S.R. 111, leaving 31 acres directly along the river and 38 acres on the other side of S.R. 111, which Strand Associates recommends for camping. The site is 85 percent woodland and 14 percent tillable land and has 0.22 mile of shoreline and 0.22 mile of road frontage.

"The site contains ample footage of both road access and river access," Strand representatives said.

The property owners are Burl, Doris and Sandy Hoke.

The recommended sites for the Mauckport project includes the existing public boat ramp. The site could include three parcels, all an acre or less in size, which is 53 percent woodland and 46 percent tillable. It has .13 mile of shoreline and 0.04 mile of road frontage to Main Street.

Stanley Kingsley is the owner of the southern two parcels, and the town of Mauckport owns the other.

Strand representatives said there's no known negative environmental impacts on either the Mauckport or Elizabeth sites, but archeological studies have yet to be completed.

County engineer Kevin Russel said the Harrison County Parks Department would most likely be responsible for maintaining the boat ramp area.

As for a timeline for construction, Russel said everything would have to go smooth with approval of the board of commissioners and county council for it to begin next summer.

Hugh Burns, Elizabeth town manager, said he and the town support the project, as does Posey Township Trustee Steve Smith.

Comments from Public Information Meeting:

From: Nina Faith [mailto:nlfaith@frontier.com]
Sent: Friday, June 22, 2012 11:00 AM
To: k.russel@harrisoncounty.in.gov
Subject: Mauckport site boat ramp plan

Kevin,
I would like to give my personal opinion on the Ohio River Boat Ramp project.

I think the Mauckport plan is a good idea. The area is easy to get to by way of SR 135, SR 11 and SR 79 in Brandenburg, Ky. A four-lane highway has been built in Kentucky and possibly four-lanes will be built on the Indiana side in the future.

The Mauckport site has adequate fire protection from a firehouse in the town and another firehouse in Central, about 3 miles north on SR 135. The firemen have adequate training fighting fires that might occur and medical training for personal safety.

The boat ramp plan might encourage local people to start some small business, such as, service station, bait shop or restuarant. Also, a few people around the area might be employed at the park.

I have heard that some people think the boat ramp at Brandenburg was built too steep to launch their boat, therefore, they put in at Mauckport.

I have had some relatives from other states visit with our family through the years and they thought the Ohio River was beautiful, so we might as well take advantage of a resource already here.

5085 O'Bannon Road
Elizabeth Indiana 47117

~~ SAILING ~~_/) ~~

July 2, 2012

Kevin Russel, P.E.
County Engineer
245 Atwood Street Ste 217
Corydon Indiana 47112

RE: Boat Ramp

Mr. Russel,

I am writing regarding the proposed Harrison County boat ramps to be located at Elizabeth and/or Mauckport Indiana. I attended the public meeting and prior to that sent written support of the proposal to the County Commissioners. That letter will be forwarded to you also.

While amentities such as campgrounds; picnic areas; ball fields; and ampitheaters would not have a negative impact I would like a greater emphasis is placed on boaters' needs and on the features associated with boating. In my opinion the purpose of the ramps is to create convenient use of the Ohio River. See my following recommendations:

1) Loading and unloading (LU) wharf/dock should be increased in size and in fact two separate LU docks should be constructed at each location. In my experience boaters are often waiting in line to access the LU dock. Quick loading and unloading increases public safety and enhances convenience.

2) Boat dock/slips need to be included. Docks would provide daylong, overnight, or longer, safe and secure tie ups. Boaters would travel longer distances and spend more time at the location if they did not have to pull their boat immediately after use and could instead keep the boat in the water. The family might spend the weekend camping or pursuing other local activities. The docks could be reserved for a fee or free. The design at each location needs to ensure sufficient docks are included and that future additional docks will be possible.

3) The slope of the boat ramps need to be able to handle fixed-keel sailboats. These boats require a steeper slope. Maximum boat length would need to be determined. Providing a steep slope ramp will allow access for a greater variety of boats.

4) The first location to be considered should be Mauckport. Pulling a boat, especially one of any size, along Hwy. 135 would be much easier than traveling the windy roads of Elizabeth. In addition, I believe the sailing events which we can develop after a ramp is completed would be best suited for the Mauckport location with participants traveling from other counties and across the bridge from Kentucky. However, the Elizabeth site has advantages also by potentially drawing boaters from Louisville for special events.

While boating can be fun, handling a boat can also be stressful. Designing the boat ramps and the boating areas as convenient and enjoyable as possible increases public participation. The purpose of the ramps, in large part, is to increase public use of the Ohio River. Thank you for consideration of my comments.

Tanya Tuell
TanyaTuell@gmail.com
502-396-0660

Please include with Page 1:

I do not have an estimate regarding how many, but we know boaters travel the Ohio River from far north to reach the Gulf of Mexico and farther destinations. Adequate docks and related services located in Harrison County could be promoted to these travelers. Add to that our friendly hospitable citizens and we can create a well-known, welcoming mariner's dockage.

Tanya Tuell

~~ SAILING ~~_/)~~

5085 O'Bannon Road
Elizabeth Indiana

December 10, 2011

Commissioner James Goldman
Commissioner Jim Klinstiver
Commissioner Buck Mathes

Dear Commissioners,

I am writing in support of the proposed Harrison County boat ramp.

As someone who enjoys sailing I have found time spent on the Ohio River to be an always interesting experience based upon everchanging river conditions, weather and time of year.

During the summer months and into fall I am a crew member during weekly Wednesday night Derby City Sailing races. I've sailed since 2004 and completed various training programs locally and elsewhere. I also volunteer with River Cities Community Sailing Program during the Learn-To-Sail Clinic held each year at which time youth groups and adults alike are introduced to sailing.

With adequate river access I believe we could develop a sailing comunity in Harrison County. It would be a new and exciting sport for all ages. I would enjoy establishing our own Learn-To-Sail Clinics and teaching participants how to sail.

In researching whether we could promote our stretch of the Ohio River as a desirable sailing destination and tourist attraction I contacted one of my sailing instructors, Captain Joe Brown. I have attached his letter of support.

I believe the boat ramp will allow and perhaps introduce community access to one of our county's greatest local natural resources, the Ohio River.

Sincerley,

Tanya Tuell
TanyaTuell@gmail.com
502-396-0660 cell