

# **Appendix E:**

## **Red Flag and Hazardous Materials**



# INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue  
Room N758-ES  
Indianapolis, Indiana 46204

PHONE: (855) 463-6848  
(855) INDOT4U

**Eric Holcomb, Governor**  
**Michael Smith, Commissioner**

Date: December 14, 2023

To: Site Assessment & Management (SAM)  
Environmental Policy Office - Environmental Services Division (ESD)  
Indiana Department of Transportation (INDOT)  
100 N Senate Avenue, Room N758-ES  
Indianapolis, IN 46204

From: Kristin Wing  
Beam, Longest and Neff, LLC  
8320 Craig Street  
Indianapolis, IN  
[kwing@b-l-n.com](mailto:kwing@b-l-n.com)

Re: RED FLAG INVESTIGATION  
DES #2200148, State Project  
Bridge Rehabilitation  
Park Road over Muscatatuck River, Crosley Fish and Wildlife Area  
Jennings County, Indiana

## PROJECT DESCRIPTION

Brief Description of Project: The Indiana Department of Transportation (INDOT) proposes a bridge rehabilitation project on Park Road over Muscatatuck River in the Crosley Fish and Wildlife Area in Jennings County, Indiana. The existing bridge is a historic non-select truss bridge built in 1910, rehabilitated in 1979 and 2004, repaired in 2015, and closed in 2019 due to deterioration of the deck. The bridge has a timber plank deck, with a main span steel through truss 110 feet long, and two steel pony truss approach spans 49 feet long. The bridge has one lane of traffic with a 9.4-foot clear roadway width. This project will rehabilitate the existing bridge by cleaning and painting the truss, replacing the bridge deck, repairing or replacing verticals, gusset plates, and low chord truss members, replacing some truss secondary members, removing and reconstructing portions of the concrete abutments and pier caps, patching abutments and piers, placing scour countermeasures at all substructure units, and replacing the bridge rail with a steel handrail. Approximately 0.003 acre of tree clearing will take place.

Bridge Work Included in Project: Yes ☒ No ☐ Structure #(s) P000-40-07088 B/ NBI #060380

If this is a bridge project, is the bridge Historical? Yes ☒ No ☐ , Select ☐ Non-Select ☒

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Culvert Work Included in Project: Yes ☐ No ☒ Structure #(s) \_\_\_\_\_

Proposed right of way: Temporary ☐ # Acres \_\_\_\_\_ Permanent ☐ # Acres \_\_\_\_\_, Not Applicable ☒

Type and proposed depth of excavation: Partially grouted revetment riprap or articulated concrete mattress will be placed 18 inches deep around the south abutment. Concrete underpin with no excavation will be placed around Pier 2. Class 2 riprap will be 4 feet deep on the north side of Pier 3, and on the other three sides, grouted and dumped (no

excavation) Class 2 riprap will be placed with a 4 foot depth. Class 1 riprap 2 feet deep will be placed around the north abutment.

Maintenance of traffic (MOT): The road is currently closed at the bridge and will remain closed during construction.

Work in waterway: Yes ☒ No ☐ Below ordinary high water mark: Yes ☒ No ☐

State Project: ☒ LPA: ☐

Any other factors influencing recommendations: N/A

#### **INFRASTRUCTURE TABLE AND SUMMARY**

<b>Infrastructure</b> Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	N/A	Recreational Facilities	N/A
Airports <sup>1</sup>	N/A	Pipelines	N/A
Cemeteries	N/A	Railroads	N/A
Hospitals	N/A	Trails	N/A
Schools	N/A	Managed Lands	1

<sup>1</sup>In order to complete the required airport review, a review of public-use airports within 3.8 miles (20,000 feet) is required.

Explanation:

Managed Lands: One (1) managed land is located within the 0.5 mile search radius. Crosley Fish and Wildlife Area is within the project area. Coordination with the Indiana Department of Natural Resources Fish and Wildlife Division will occur.

#### **WATER RESOURCES TABLE AND SUMMARY**

<b>Water Resources</b> Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	3
Canal Structures – Historic	N/A	Lakes	2
NPS NRI Listed	N/A	Floodplain - DFIRM	2
NWI-Lines	14	Cave Entrance Density	6
IDEM 303d Listed Streams and Lakes (Impaired)	4	Sinkhole Areas	1
Rivers and Streams	13	Sinking-Stream Basins	1

If unmapped water features are identified that might impact the project area, direct coordination with INDOT Environmental Services Division (ESD) Ecology and Waterway Permitting will occur.

Explanation:

NWI-Lines: Fourteen (14) NWI-line segments are located within the 0.5 mile search radius. One (1) NWI-line is located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

IDEM 303d Listed Streams and Lakes: Four (4) 303d Listed Stream segments are located within the 0.5 mile search radius. Vernon Fork Muscatatuck River is located within the project area. Vernon Fork Muscatatuck River is listed as impaired for dissolved oxygen (DO), impaired biotic communities (IBC), and nutrients. Concerning DO, IBC, and nutrients, Best Management Practices (BMPs) will be used to avoid further degradation to the stream.

Rivers and Streams: Thirteen (13) river and stream segments are located within the 0.5 mile search radius. One (1) segment, Vernon Fork Muscatatuck River, is located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

NWI-Wetlands: Three (3) wetland polygons are located within the 0.5 mile search radius. The nearest wetland polygon is located approximately 0.35 mile northeast of the project area. No impact is expected.

Lakes: Two (2) lake polygons are located within the 0.5 mile search radius. The nearest lake polygon is located approximately 0.42 mile north of the project area. No impact is expected.

Floodplains: Two (2) floodplain polygons are located within the 0.5 mile search radius. The project area is located within both of the floodplain polygons. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Cave Entrance Density: Six (6) cave entrance density polygons are located within the 0.5 mile search radius. One (1) cave entrance density polygon is located within the project area. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Sinkhole Areas: One (1) sinkhole area polygon is located within the 0.5 mile search radius. The sinkhole area polygon is located approximately 0.03 mile south of the project area. No impact is expected.

Sinking-Stream Basin: One (1) sinking-stream basin polygon is located within the 0.5 mile search radius. The sinking-stream basin polygon is located approximately 0.22 mile west of the project area. No impact is expected.

#### **MINING AND MINERAL EXPLORATION TABLE AND SUMMARY**

<b>Mining/Mineral Exploration</b>			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	<b>N/A</b>	Mineral Resources	<b>N/A</b>
Mines – Surface	<b>N/A</b>	Mines – Underground	<b>N/A</b>

Explanation:

No mining and mineral exploration resources were identified within the 0.5-mile search radius.

#### **HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY**

<b>Hazardous Material Concerns</b>			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	<b>N/A</b>	Manufactured Gas Plant Sites	<b>N/A</b>
RCRA Generator/ TSD	<b>N/A</b>	Open Dump Waste Sites	<b>N/A</b>
RCRA Corrective Action Sites	<b>N/A</b>	Restricted Waste Sites	<b>N/A</b>



State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	N/A	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	N/A
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage (LUST) Sites	N/A	Notice of Contamination Sites	N/A

Unless otherwise noted, site specific details presented in this section were obtained from documents reviewed on the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC).

Explanation:

No hazardous material concerns were identified within the 0.5-mile search radius.

### **ECOLOGICAL INFORMATION SUMMARY**

The Jennings County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at [https://www.in.gov/dnr/nature-preserves/files/np\\_jennings.pdf](https://www.in.gov/dnr/nature-preserves/files/np_jennings.pdf). A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did indicate the presence of ETR species within the 0.5 mile search radius. Coordination with USFWS and IDNR will occur.

A review of the USFWS database indicated the presence of endangered bat species in or within 0.5 mile of the project area. Additional coordination with INDOT District Environmental personnel will be necessary, and the range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

### **RECOMMENDATIONS SECTION**

Include recommendations from each section. If there are no recommendations, please indicate N/A:

**CULTURAL RESOURCES:** The proposed project involves one historic bridge, P000-40-07088 B/NBI #060380 (Non-Select). The bridge is eligible for listing in the National Register of Historic Places. Coordination with INDOT Cultural Resources Office (CRO) and the Indiana State Historic Preservation Office (SHPO) will occur.

**INFRASTRUCTURE:**

**Managed Land:** One (1) managed land, Crosley Fish and Wildlife Area, is within the project area. Coordination with the Indiana Department of Natural Resources Fish and Wildlife Division will occur.

**WATER RESOURCES:** A Waters of the US Report is recommended based on mapped features and coordination with INDOT ESD Ecology and Waterway Permitting will occur for the following features:

- One (1) NWI-line segment is located within the project area.
- One (1) stream segment, Vernon Fork Muscatatuck River, is located within the project area.
- The project area is located within a floodplain polygon (coordination only).

- One (1) cave entrance density polygon is located within the project area.
- IDEM 303d Listed Streams and Lakes: One (1) IDEM 303d Listed Stream segment, Vernon Fork Muscatatuck River, is located within the project area. Vernon Fork Muscatatuck River is listed as impaired for dissolved oxygen (DO), impaired biotic communities (IBC), and nutrients. Concerning DO, IBC, and nutrients, Best Management Practices (BMPs) will be used to avoid further degradation to the stream.

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

INDOT ESD concurrence: Shelby O'Neal (Signature)

Digitally signed by Shelby O'Neal  
Date: 2023.12.20 09:22:10 -05'00'

Prepared by:  
Kristin Wing  
Senior Environmental Analyst  
Beam, Longest and Neff, LLC

#### Graphics:

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

INFRASTRUCTURE: YES

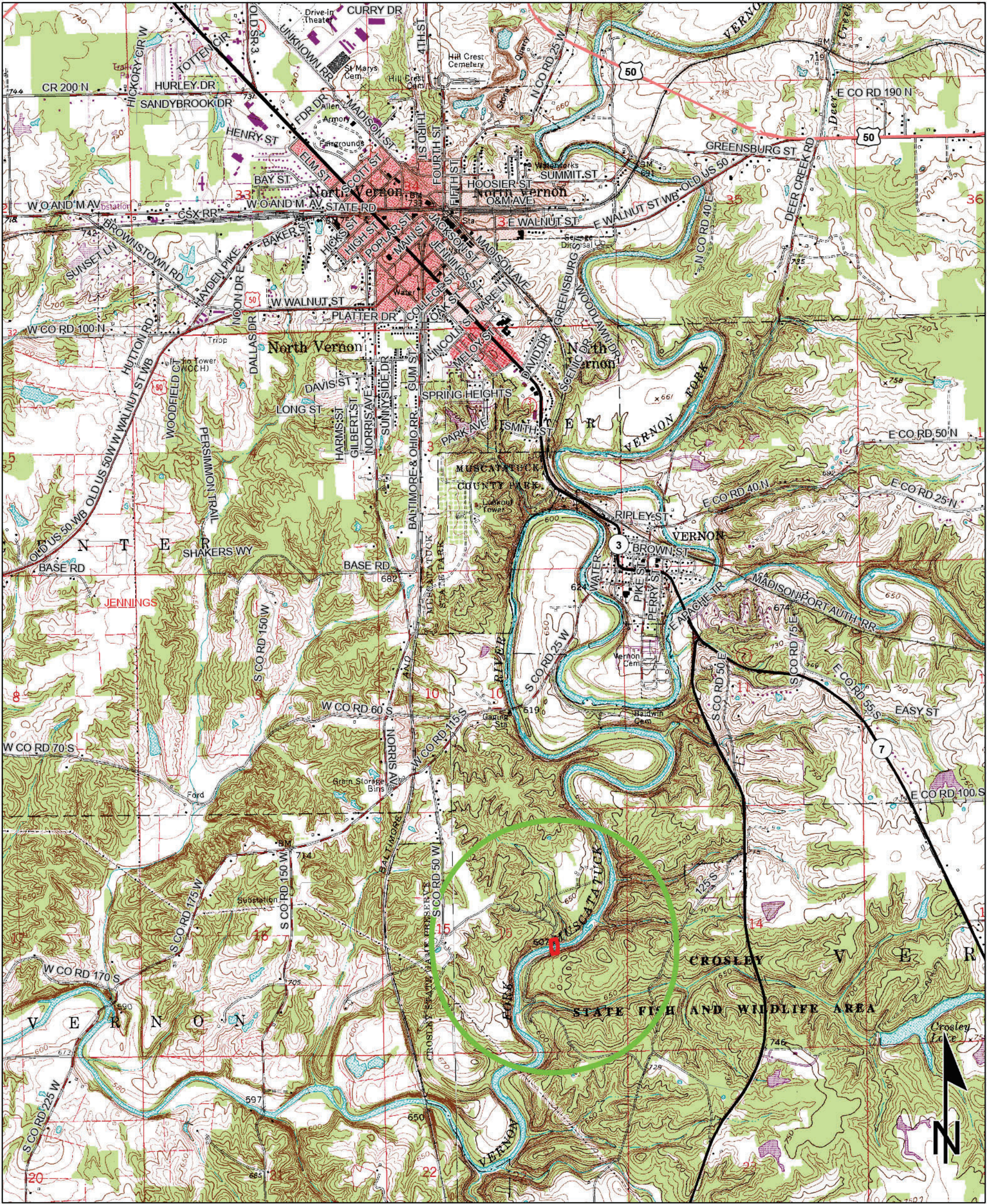
WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A



Red Flag Investigation - Site Location Map  
Park Road over Muscatatuck River, Crosley Fish & Wildlife Area  
Des. No. 2200148, Bridge Rehabilitation  
Jennings County, Indiana



Sources: 0.5 0.25 0 0.5 Miles  
**Non Orthophotography**  
Data - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
Map Projection: UTM Zone 16 N Map Datum: NAD83  
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

VERNON QUADRANGLE  
INDIANA  
7.5 MINUTE SERIES  
(TOPOGRAPHIC)



# Red Flag Investigation - Infrastructure

## Park Road over Muscatatuck River, Crosley Fish & Wildlife Area

### Des. No. 2200148, Bridge Rehabilitation

### Jennings County, Indiana



Sources:

**Non Orthophotography**

Data - Obtained from the State of Indiana Geographical Information Office Library

**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))

Map Projection: UTM Zone 16 N    Map Datum: NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

0.1   0.05   0   0.1 Miles

Religious Facility

Airport

Cemeteries

Hospital

School

Recreation Facility

Pipeline

Railroad

Trails

Managed Lands

County Boundary

Project Area

Half Mile Radius

Toll

Interstate

State Route

US Route

Local Road

E-7

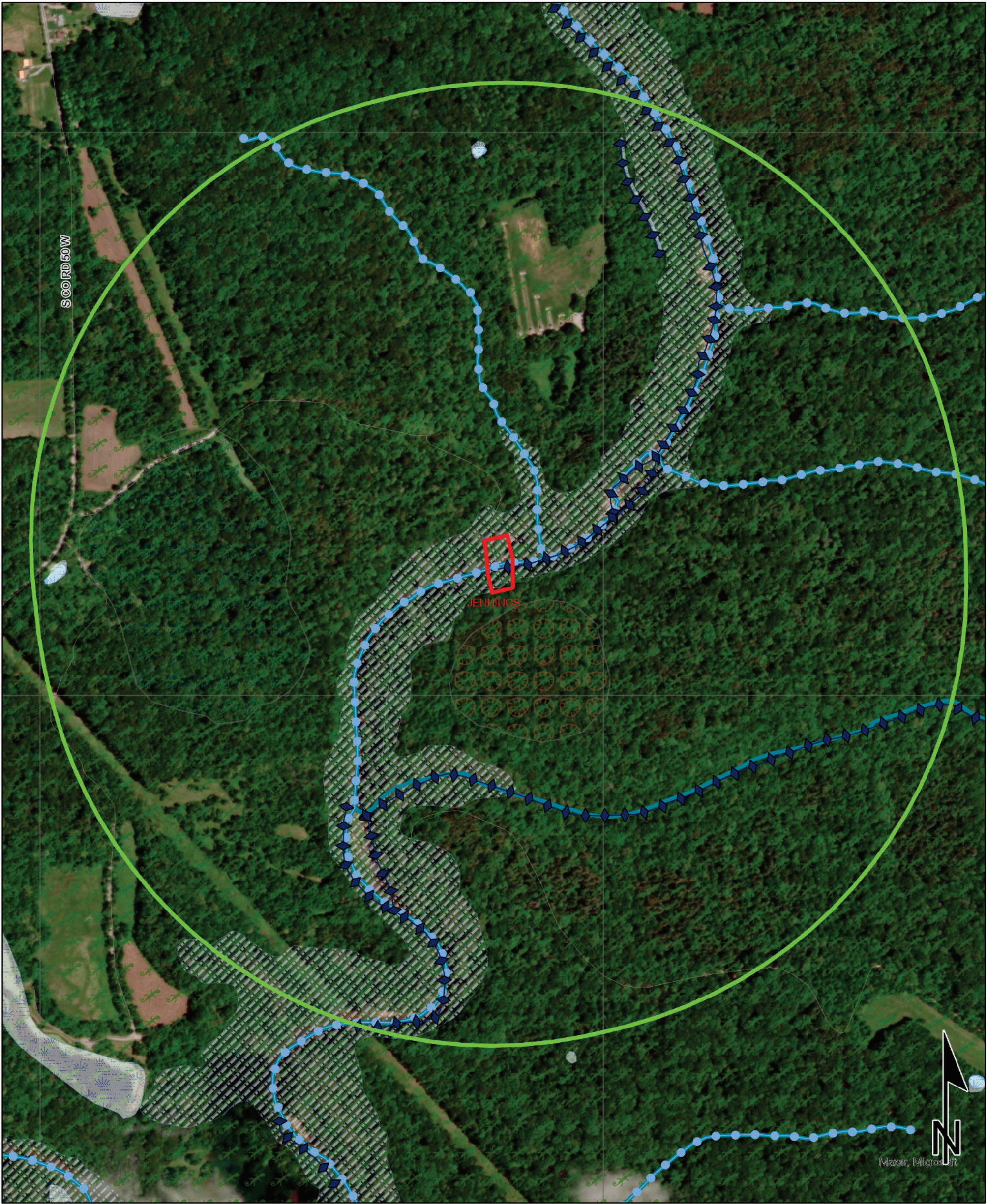


# Red Flag Investigation - Water Resources

## Park Road over Muscatatuck River, Crosley Fish & Wildlife Area

### Des. No. 2200148, Bridge Rehabilitation

### Jennings County, Indiana



**Sources:**

**Non Orthophotography**  
 Data - Obtained from the State of Indiana Geographical Information Office Library

**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))

**Map Projection:** UTM Zone 16 N    **Map Datum:** NAD83

**This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.**

0.1   0.05   0   0.1 Miles

	NWI - Point		Wetlands		Project Area
	Karst Spring		Lake		Half Mile Radius
	NWI- Line		Floodplain - DFIRM		Toll
	Impaired_Stream_Lake		Cave Entrance Density		Interstate
	NPS NRI listed		Sinkhole Area		State Route
	River		Sinking-Stream Basin		US Route
	Canal Structure - Historic		County Boundary		Local Road
	Canal Route - Historic				



# **Appendix F:**

## **Water Resources**

**Waters Report  
Park Road over the Muscatatuck River  
Jennings County, Indiana  
Bridge Project  
Des. No. 2200148**

*Jacob Burskey*  
Approved 1/9/2024

Prepared by: Kristin Wing  
[kwing@b-l-n.com](mailto:kwing@b-l-n.com); 317-806-4342  
Beam, Longest and Neff, LLC (BLN)  
Completed Date: December 27, 2023

## PROJECT INFORMATION

### Date of Field Reconnaissance

July 11, 2023

### Location

Section 15, Township 6 North, Range 8 East  
Vernon, Indiana Quadrangle Map  
Latitude: 38.961776 North, Longitude: 85.616928 West  
Jennings County

## PROJECT DESCRIPTION

The proposed project consists of a bridge rehabilitation on Park Road over the Muscatatuck River in the Crosley Fish and Wildlife Area south of Vernon in Jennings County, Indiana. The existing bridge (P000-40-07088 B/ NBI #060380) is historic non-select truss bridge that is currently closed due to deterioration of the deck. The bridge has a timber plank deck, with a main span steel through truss 110 feet long, and two steel pony truss approach spans 49 feet long. This project will rehabilitate the existing bridge by cleaning and painting the truss, replacing the bridge deck, repairing or replacing verticals, gusset plates, and low chord truss members, replacing some truss secondary members, removing and reconstructing portions of the concrete abutments and pier caps, patching abutments and piers, placing scour countermeasures at all substructure units, and replacing the bridge rail with a steel handrail. The anticipated scour countermeasures will include partially grouted dumped revetment riprap or an articulated concrete mattress on the south spillslope, Class 1 riprap with a 20-foot width will be placed around the north abutment and wings, a concrete underpin will be placed around Pier 2, and partially grouted dumped Class 2 riprap will be placed on 3 sides (channel side and each pier end) of Pier 3 with regular buried Class 2 riprap on the north side of Pier 3. Approximately 0.003 acre of tree clearing will take place. No permanent or temporary right-of-way will be required.

Topographic and aerial maps showing the project location can be found in Figures 2 to 4. The investigated area was selected because it encompasses where work is anticipated to be completed for the project. The general topography of the investigated area is hilly, with steep slopes to the river. It is surrounded by forests with a boat ramp in the northeast quadrant.

## DESKTOP DATA REVIEW

### **National Wetland Inventory (NWI) Information**

One NWI-mapped linear water feature, the Muscatatuck River, is present within the investigated area (Figure 5). The NWI-mapped linear water feature is classified as R2UBH (riverine). The Muscatatuck River was verified to be present during the site visit.

### **National Hydrography Dataset (NHD)**

Figure 5 also depicts data from the NHD, which represents the water drainage network surface water component on the USGS topographic maps. Five NHD flowlines, all artificial paths, are within the investigated area. Three of the artificial path flowlines represent the Muscatatuck River, which was verified to be present within the investigated area during the site visit.

### **Soils**

According to the Soil Survey Geographic (SSURGO) Database for Jennings County, the investigated area does not contain a soil type on the national list of hydric soils (Figure 6). Table 1 lists the soil types present within the investigated area.

**Table 1: Soil Series in the Project Area**

Soil Unit Name	Symbol	NRCS Flooding Frequency	NRCS Drainage Class	NRCS Hydric Soil Category	SSURGO Hydric Rating
Caneyville-Rock outcrop complex, 25 to 60 percent slopes	CcaG	None	Well drained	None	0% hydric
Caneyville and Grayford silt loams, 12 to 25 percent slopes, eroded	CcgD2	None	Well drained	None	0% hydric
Wirt loam, 0 to 2 percent slopes, occasionally flooded, very brief duration	WprAW	Occasional	Well drained	None	0% hydric

**Floodplain**

An Indiana Department of Natural Resources (IDNR) Flood Hazard Map shows the investigated area within the IDNR Approximate Floodway and DNR Approximate Fringe (Figure 7).

**Hydrological Unit Code (HUC)**

The project is in the Indian-Creek-Vernon Fork Muscatatuck River watershed, which is identified by the 12-digit HUC 051202070705 (Figure 8).

**Karst**

The project is in a region of the state with potential for karst topography to be present. No known karst features are mapped within the investigated area, although one is mapped south of the investigated area. No karst features were observed during site visit (Figure 9).

**Attached Documents**

- Graphics (Figures 1-12)
- Ground Level Photographs
- Wetland Data Sheets
- Preliminary Jurisdiction Form

Some attachments have been removed to limit duplication.

**FIELD RECONNAISSANCE**

A field visit to inspect the investigated area for aquatic resources was conducted by BLN staff on July 11, 2023. Existing land use in the investigated area is primarily forested, with a boat ramp in the northeast quadrant. The survey footprint extended approximately 155 feet north and south, and 80 feet east and west from the center of the bridge, to encompass the maximum estimated area of disturbance based on the design. The field investigation identified one waterway, the Muscatatuck River, in the investigated area (Figure 11). No unusual circumstances were encountered during the field investigation.

**Streams**

The investigated area was inspected for the presence of streams; any streams found were mapped, measured, and informally evaluated using the techniques described in *Methods for Assessing Habitat in Flowing Waters: Using the Qualitative Habitat Evaluation Index* (Ohio EPA, 2006). Recommendations on the jurisdictional status of water resources within the project area were made based on guidance from the *US Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook* (2007).

**Muscatatuck River**

The Muscatatuck River is identified on the USGS topographic map, NWI and NHD (Figures 2, 3 and 5) as a perennial stream. According to the USGS StreamStats application, the Muscatatuck River exhibits an upstream drainage area of 199.658 square miles (Figure 10). The Muscatatuck River has an Ordinary High-Water Mark (OHWM) 120 feet wide and 6 feet deep, taken approximately 75 feet upstream of the bridge. The OHWM was the same both upstream and downstream of the bridge within the investigated area. Due to overhead cover, substrate of silt and rocks, presence of pools, and water clarity, the waterway quality was rated as average. Approximately 160 linear feet of the Muscatatuck River is present within the investigated area. Because the Muscatatuck River flows to the East Fork White River, which flows to the White River, which flows to the Wabash River, a Section 10 Traditionally Navigable Water, it would likely be considered a Water of the U.S.



**Table 2: Stream Summary**

Water Feature Name	Photos	Lat/Long	OHHW Width (ft)	OHHW Depth (ft)	USGS Blue-line? Type?	Quality	Substrate	Riffles/ Pools?	Likely Water of US?
Muscatatuck River	1-8, 11-15	38.961776 N 85.616928 W	120	6	Yes, perennial	Average	Silt and rocks	R: N P: Y	Yes

### Wetlands

The *US Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual* and the *2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* were used to determine whether wetlands were present within the investigated area. Wetland/non-wetland determinations were made using guidance and techniques provided by the *Delineation Manual* and *Regional Supplement*, including vegetation (*National Wetland Plant List*, Lichvar et al, 2016), hydrology, and soil characteristics. A sample point was taken in an area where potential wetland hydrology and/or hydrophytic vegetation were observed. The soil observed at the sample point location was compared to the hydric soil indicators presented in the *Field Indicators of Hydric Soils in the United States*.

One sample point was collected in an area with hydrophytic vegetation on a terraced slope near the river in the southeast quadrant of the project area. The other three quadrants were surveyed for wetlands, but no sample points were taken due to steep slopes, a lack of hydrology and hydrophytic vegetation indicators. Dominant vegetation in those areas included smooth hydrangea (*Hydrangea arborescens*, FACU), small flowered leafcup (*Polymnia canadensis*, FACU), wild ginger (*Asarum canadense*, FACU), purple Joe-Pye weed (*Eutrochium purpureum*, FAC), yellow poplar (*Liriodendron tulipifera*, FACU), sugar maple (*Acer saccharum*, FACU), American basswood (*Tilia americana*, FACU), and black walnut (*Juglans nigra*, FACU). An aerial photograph illustrating the sample point location and identified water resource is provided (Figure 11). Also attached to this report are ground-level photographs of the investigated area, a photo orientation map (Figure 12), and the wetland determination data form for the sample point.

**Table 3: Wetland Data Point Summary**

Data Point	Lat/Long	Vegetation	Soils	Hydrology	Wetland
SP1	38.96166299, -85.61698576	Yes	No	Yes	No

### Sample Point 1 (SP1)

SP1 was taken southeast of the bridge to investigate an area with hydrophytic vegetation. Dominant vegetation at SP1 included American hornbeam (*Carpinus caroliniana*, FAC) in the tree stratum, and giant goldenrod (*Solidago gigantea*, FACW) and Culver's root (*Veronicastrum virginicum*, FAC) in the herb stratum. This observation did meet the vegetation criterion for a positive wetland determination, passing the dominance test. Soils in the test pit consisted of a clay loam from 0 to 8 inches with a matrix color of 10YR 4/3 (100%). From 8 to 16 inches, the soils consisted of a clay loam with a color of 10YR 4/3 (95%) and a redox color of 10YR 4/6 (5%) found in the matrix. This observation did not meet the hydric soil criterion for a positive wetland determination. Two secondary indicators (geomorphic position and FAC-Neutral test) of wetland hydrology were observed. This observation meets the hydrology criterion for a positive wetland determination. Although SP1 had sufficient hydrology and vegetation indicators, it lacked hydric soils and, therefore, was designated as an upland point.

### Other Features

The investigated area was also surveyed for other aquatic features, including roadside ditches and open water bodies. Any features identified were evaluated for potential jurisdictional status.

### Roadside Ditches

No roadside ditches were observed in the investigated area.

### Open Water

No open water features were observed in the investigated area.

#### Wildlife Crossings/Birds

Evidence of animal prints was noted underneath the bridge during the field investigation (Photo 13). No evidence of bats or birds was observed.

#### **Conclusions**

BLN conducted a field investigation for wetlands and Waters of the US at the investigated area on July 11, 2023. The investigation identified one waterway, the Muscatatuck River, within the investigated area, and it is likely a jurisdictional feature. If impacts are necessary, mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by USACE. This report is our best judgment based on the guidelines set forth by USACE.

#### **Acknowledgement**

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgment, in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instructional Guidebook*, and other appropriate agency guidelines.



12/27/2023 Kristin Wing  
Senior Environmental Analyst  
Beam, Longest and Neff, LLC





Source: [gis.in.gov/arcgis/rest/services](https://gis.in.gov/arcgis/rest/services)

0 2,000 4,000 Feet

## Legend

Investigated Area

**BLN**  
BEAM-LONGEST-NEFF

**@egis**  
GROUP

**Figure 2: USGS Topo Map**  
Bridge Rehabilitation  
Park Road over Muscatatuck River  
Jennings County, Indiana  
Des 2200148  
Author: Kristin Wing





N Source: gis.in.gov/arcgis/rest/services  
 0 50 100 Feet

**BLN** | **@egis**  
 BEAM·LONGEST·NEFF GROUP

#### Legend

- |                   |                     |
|-------------------|---------------------|
| Investigated Area | Canal Ditch         |
| Riverine          | Coastline           |
| Perennial         | Connector           |
| Intermittent      | Pipeline            |
| Ephemeral         | Underground Conduit |
| Artificial Path   |                     |

**Figure 5: National Wetland Inventory and National Hydrography Dataset Map**  
 Bridge Rehabilitation  
 Park Road over Muscatatuck River  
 Jennings County, Indiana  
 Des 2200148  
 Author: Kristin Wing



Hydric Rating by Map Unit—Jennings County, Indiana  
Figure 6: Des 2200148



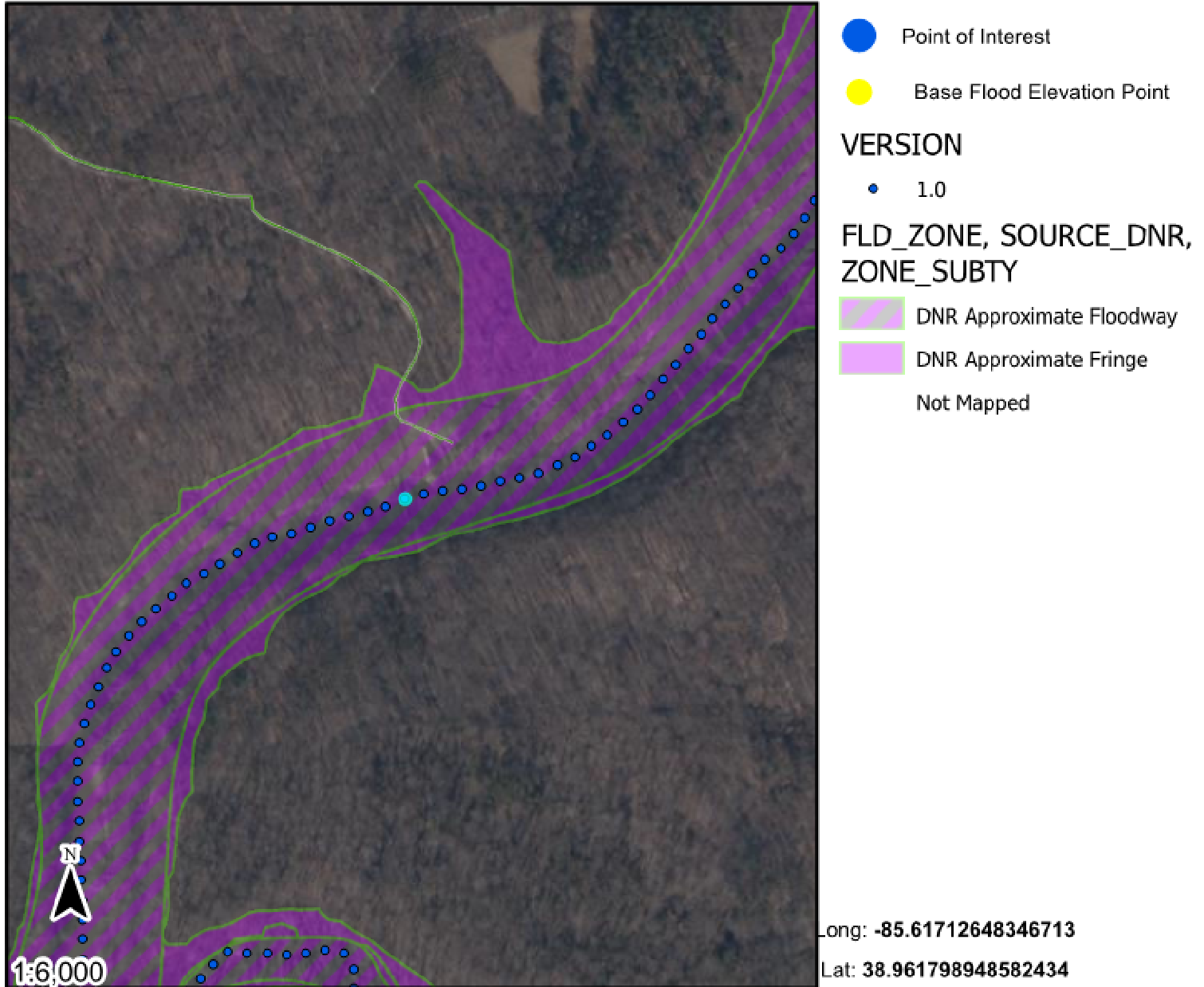
Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

Soil Rating Polygons

- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

2/18/2023



*The information provided below is based on the point of interest shown in the map above.*

County: <b>Jennings</b>	Approximate Ground Elevation: <b>578.0 feet (NAVD88)</b>
Stream Name:	Base Flood Elevation: <b>612.6 Feet (NAVD88)</b>
<b>Vernon Fork Muscatatuck River</b>	Drainage Area: <b>Not Available</b>

Best Available Flood Hazard Zone: **DNR Approximate Floodway**

National Flood Hazard Zone: **FEMA Zone A**

Is a Flood Control Act permit from the DNR needed for this location? **yes**

Is a local floodplain permit needed for this location? **yes-**

Floodplain Administrator: **Marie Shepherd, Executive Director, Area Plan Commission**

Community Jurisdiction: **Jennings County, County proper**

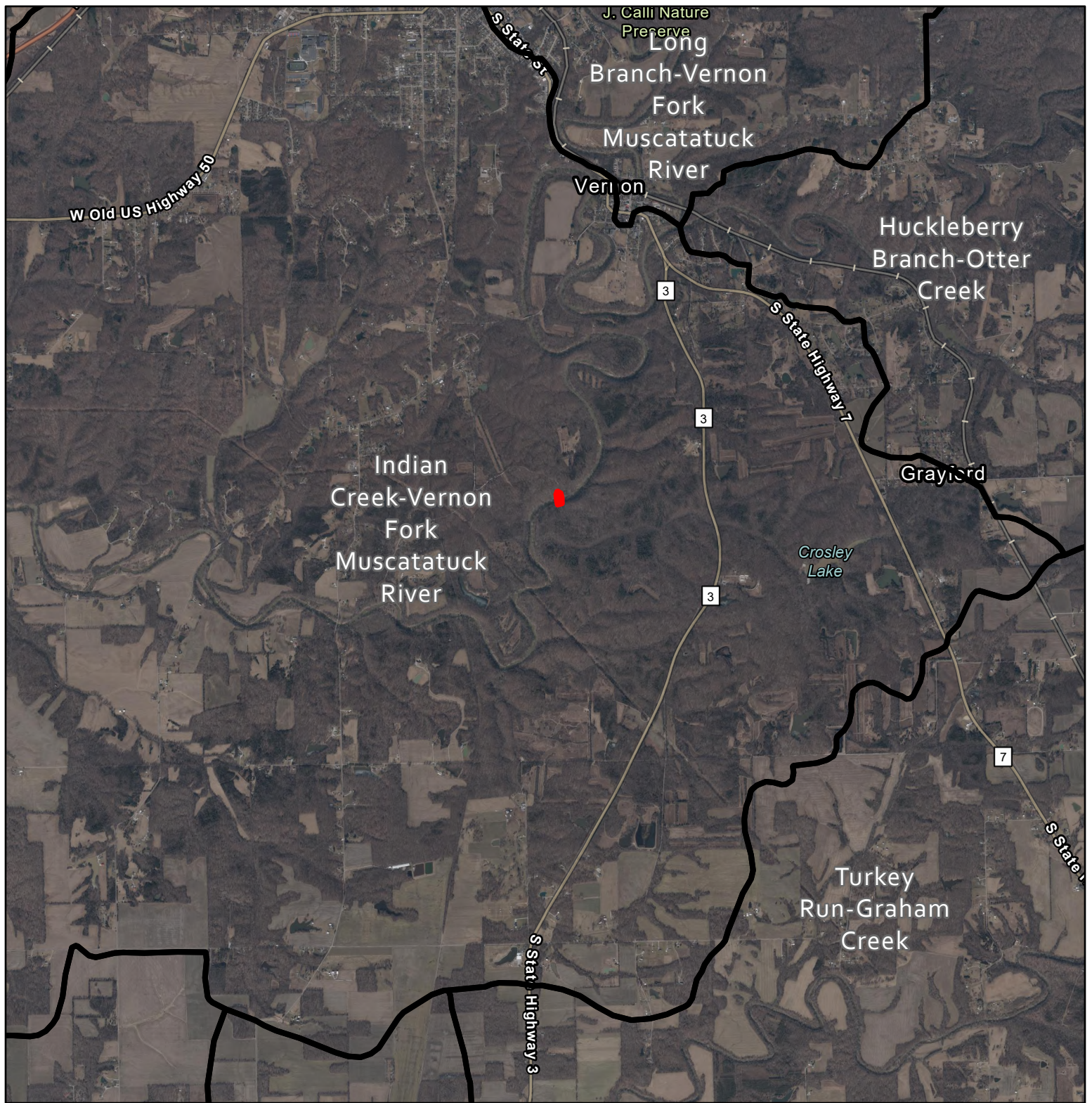
Phone: **(812) 352-3005**

Email: **mshepherd@jenningscounty-in.gov**

US Army Corps of Engineers District: **Louisville**

Date Generated: 12/8/2023





Source: [gis.in.gov/arcgis/rest/services](https://gis.in.gov/arcgis/rest/services)

0 2,500 5,000 Feet

**BLN**  
BEAM · LONGEST · NEFF

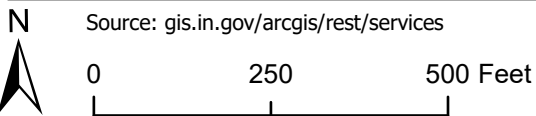
**@egis**  
GROUP

### Legend

- Investigated Area
- Watersheds - HUC 12

**Figure 8: Watershed Map**  
Bridge Rehabilitation  
Park Road over Muscatatuck River  
Jennings County, Indiana  
Des 2200148  
Author: Kristin Wing







Source: [gis.in.gov/arcgis/rest/services](https://gis.in.gov/arcgis/rest/services)



**Legend**

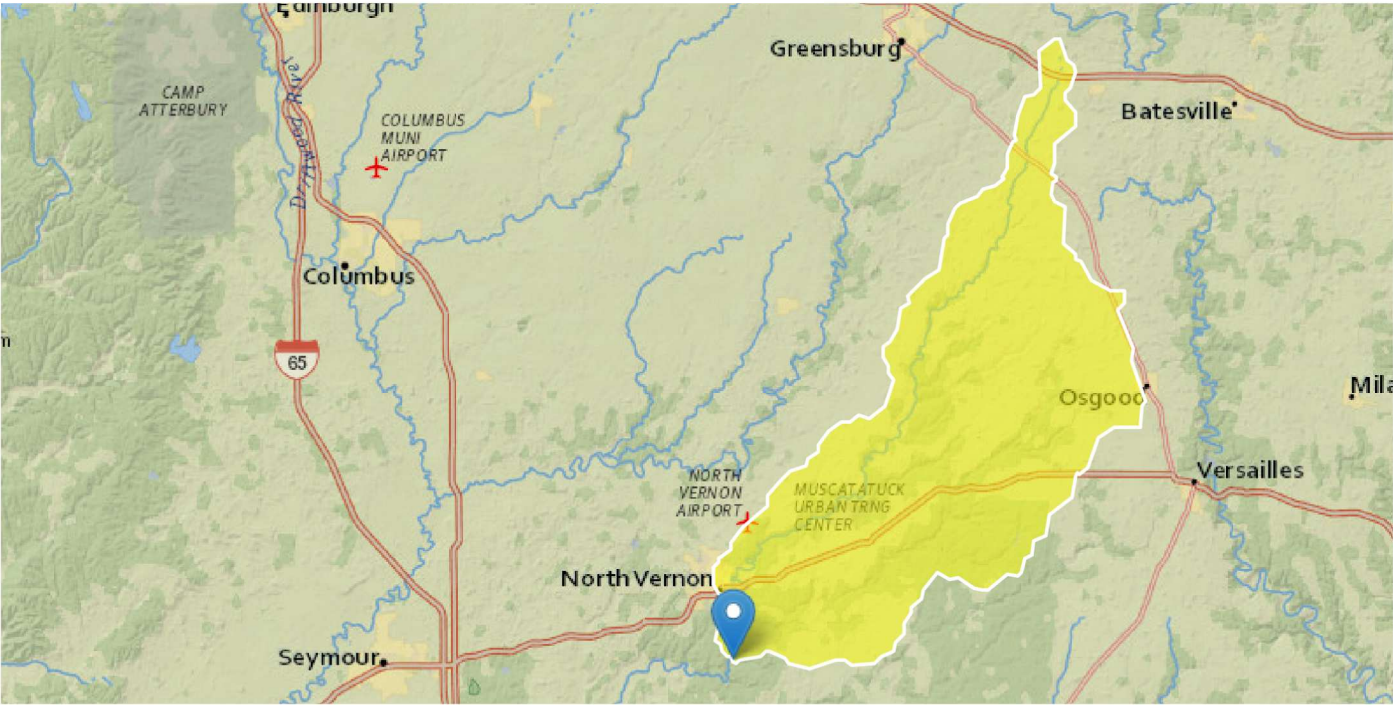
-  Investigated Area
-  Potential Karst Region

**Figure 9: Karst Map**  
Bridge Rehabilitation  
Park Road over Muscatatuck River  
Jennings County, Indiana  
Des 2200148  
Author: Kristin Wing



# Figure 10: Muscatatuck River StreamStats Report

Region ID: IN  
Workspace ID: IN20231207211545352000  
Clicked Point (Latitude, Longitude): 38.96184, -85.61710  
Time: 2023-12-07 16:16:01 -0500



Collapse All

Basin Characteristics

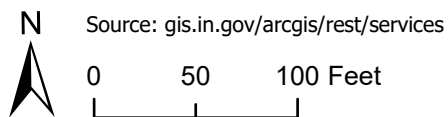
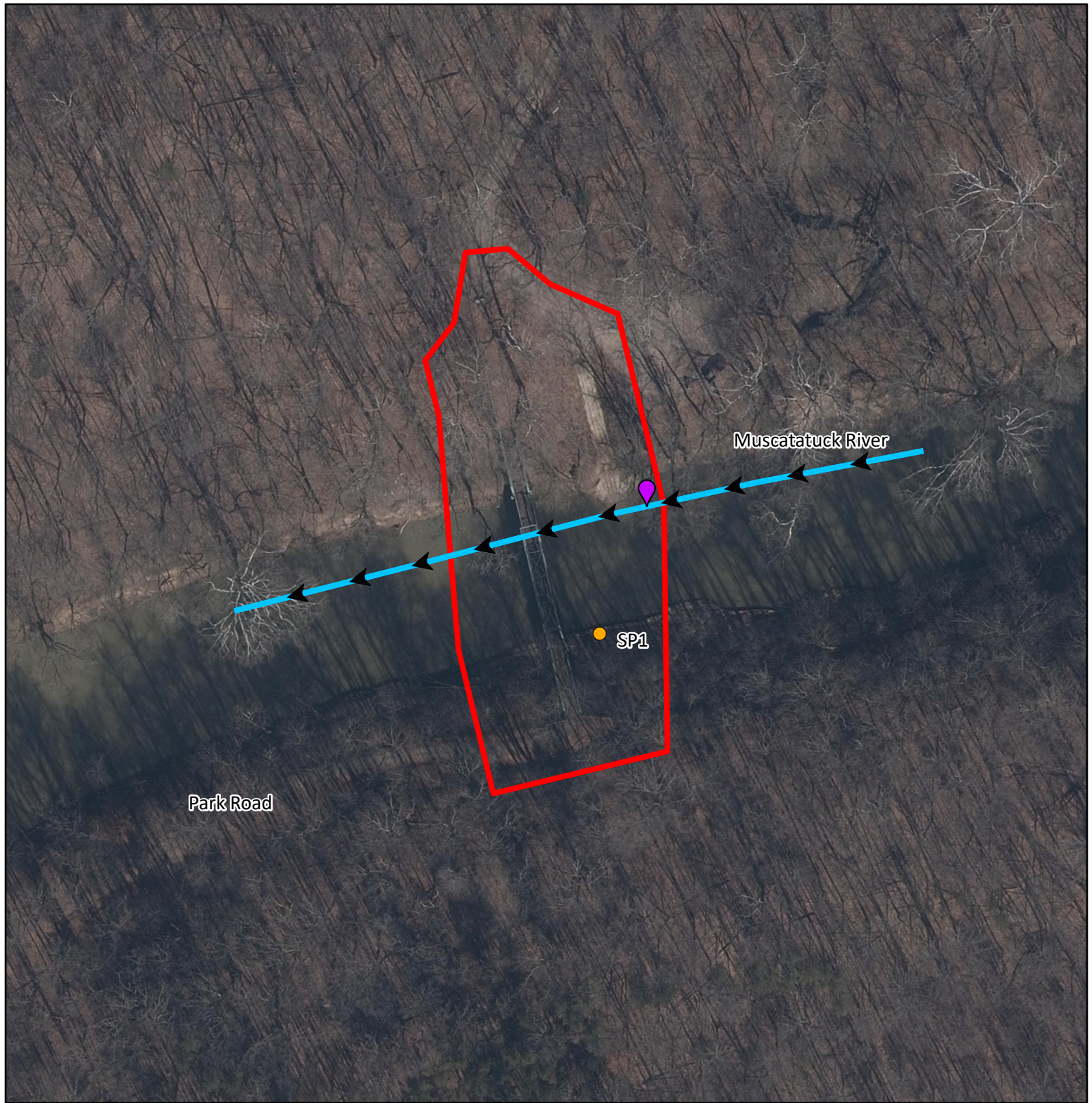
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	199.658	square miles

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#### Legend

- |                   |                   |
|-------------------|-------------------|
| Investigated Area | Muscatatuck River |
| Upland Point      | OHWM              |

**Figure 11: Water Resources Map**  
 Bridge Rehabilitation  
 Park Road over Muscatatuck River  
 Jennings County, Indiana  
 Des 2200148  
 Author: Kristin Wing



# WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Des 2200148 Park Road over Muscatatuck City/County: North Vernon/Jennings Sampling Date: 2023-07-11  
 Applicant/Owner: INDOT State: Indiana Sampling Point: SP1  
 Investigator(s): K. Wing, D. Love Section, Township, Range: 15, 6 N, 8 E  
 Landform (hillslope, terrace, etc.): Terrace Slope Local relief (concave, convex, none): Concave  
 Slope (%): 2 Lat: 38.96166299 Long: -85.61698576 Datum: WGS 84  
 Soil Map Unit Name: WprAW - Wirt loam, 0 to 2 percent slopes, occasionally flooded, very brief duration NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks:		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft r</u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)														
1. <u>Carpinus caroliniana</u>	<u>25</u>	<input checked="" type="checkbox"/>	<u>FAC</u>															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	<u>25</u>	_____	_____	<b>Prevalence Index worksheet:</b> <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species <u>60</u></td> <td>x 3 = <u>180</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>265</u> (B)</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>40</u>	x 2 = <u>80</u>	FAC species <u>60</u>	x 3 = <u>180</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u> (A)	<u>265</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>5</u>	x 1 = <u>5</u>																	
FACW species <u>40</u>	x 2 = <u>80</u>																	
FAC species <u>60</u>	x 3 = <u>180</u>																	
FACU species <u>0</u>	x 4 = <u>0</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>105</u> (A)	<u>265</u> (B)																	
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)</b>																		
1. _____	_____	_____	_____															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	<u>0</u>	_____	_____	<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
<b>Herb Stratum (Plot size: <u>5 ft r</u>)</b>																		
1. <u>Solidago gigantea</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>FACW</u>															
2. <u>Veronicastrum virginicum</u>	<u>25</u>	<input checked="" type="checkbox"/>	<u>FAC</u>															
3. <u>Ranunculus hispidus</u>	<u>10</u>	_____	<u>FAC</u>															
4. <u>Teucrium canadense</u>	<u>10</u>	_____	<u>FACW</u>															
5. <u>Eutrochium fistulosum</u>	<u>5</u>	_____	<u>OBL</u>	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	<u>80</u>	_____	_____	<b>Remarks:</b> (Include photo numbers here or on a separate sheet.)														
<b>Woody Vine Stratum (Plot size: <u>30 ft r</u>)</b>																		
1. _____	_____	_____	_____															
2. _____	_____	_____	_____															
<b>Remarks:</b> (Include photo numbers here or on a separate sheet.)																		

# SOIL

Sampling Point: SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 - 8	10YR 4/3	100					Clay Loam	
8 - 16	10YR 4/3	95	10YR 4/6	5	C	M	Clay Loam	
-								
-								
-								
-								
-								

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>
---	---

Remarks:  
**No hydric soil**

# HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
---	---

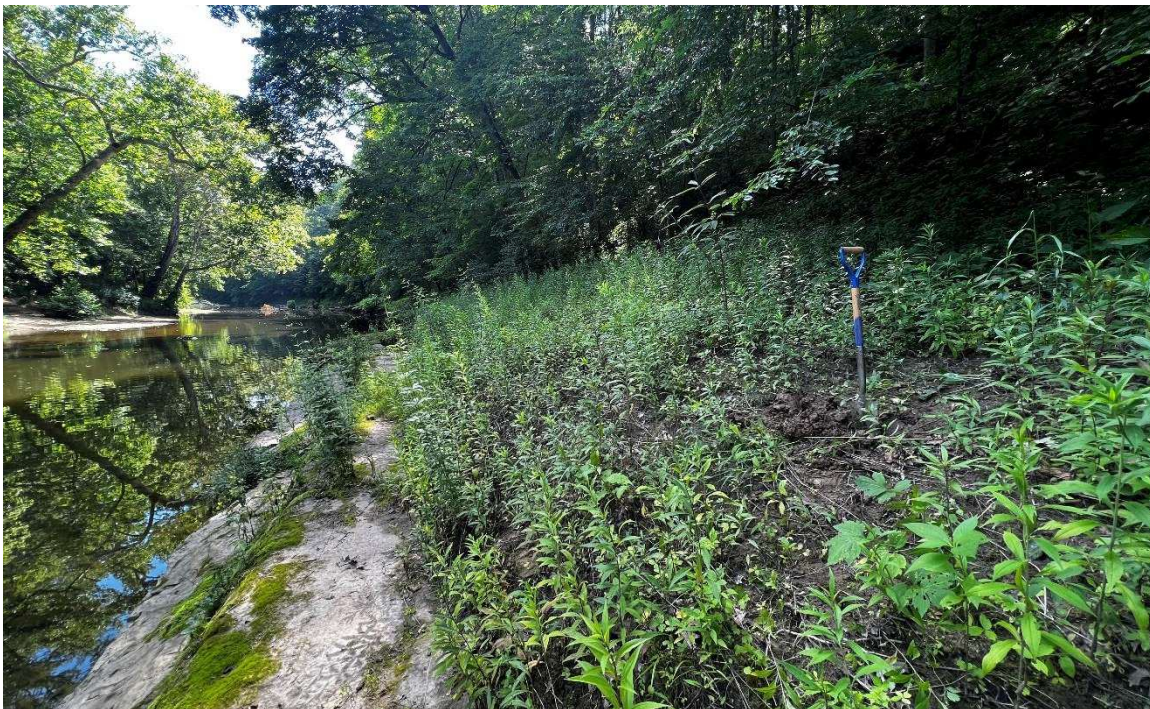
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:





SP1 soil profile (38.96166299 N, 85.61698576 W). SP1 was determined to be an upland point.



SP1 sample location.



## Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM


### **BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR PJD:** 12/27/23

**B. NAME AND ADDRESS OF PERSON REQUESTING PJD:** Kristin Wing, 8320 Craig Street, Indianapolis, IN 46250

**C. DISTRICT OFFICE, FILE NAME, AND NUMBER:**

**D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:**

The proposed project is a bridge rehabilitation on Park Road over the Muscatatuck River in the Crosley Fish and Wildlife Area south of Vernon, in Jennings County, IN. The existing bridge is a historic non-select truss bridge that is closed due to deterioration of the deck. The bridge has a timber plank deck, a main span steel through truss 110 feet long, and two steel pony truss approach spans 49 feet long. This project will rehabilitate the existing bridge by cleaning and painting the truss, replacing the bridge deck, repairing or replacing verticals, gusset plates, and low chord truss members, replacing some truss secondary members, removing and reconstructing portions of the concrete abutments and pier caps, patching abutments and piers, placing scour countermeasures at all substructure units, and replacing the bridge rail with a steel handrail. Approximately 0.003 acre of tree clearing will take place. No permanent or temporary right-of-way will be required. 

**(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)**

State: IN County/parish/borough: Jennings City: Vernon

Center coordinates of site (lat/long in degree decimal format):

Lat.: 38.961776 Long.: -85.616928

Universal Transverse Mercator:

Name of nearest waterbody: Muscatatuck River

**E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

☐ Office (Desk) Determination. Date:

☐ Field Determination. Date(s):

**TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH “MAY BE” SUBJECT TO REGULATORY JURISDICTION.**

<b>Site number</b>	<b>Latitude (decimal degrees)</b>	<b>Longitude (decimal degrees)</b>	<b>Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)</b>	<b>Type of aquatic resource (i.e., wetland vs. non-wetland waters)</b>	<b>Geographic authority to which the aquatic resource “may be” subject (i.e., Section 404 or Section 10/404)</b>
Muscatatuck River	38.961776	-85.616928	160 linear feet	non-wetland	404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "*may be*" waters of the U.S. and/or that there "*may be*" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:




**SUPPORTING DATA. Data reviewed for PJD (check all that apply)**

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☒ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:  
Map: Figures 1-12.
- ☒ Data sheets prepared/submitted by or on behalf of the PJD requestor.  
☐ Office concurs with data sheets/delineation report.  
☐ Office does not concur with data sheets/delineation report. Rationale: \_\_\_\_\_.
- ☐ Data sheets prepared by the Corps: \_\_\_\_\_.
- ☐ Corps navigable waters' study: \_\_\_\_\_.
- ☒ U.S. Geological Survey Hydrologic Atlas: Figure 8.  
☒ USGS NHD data.  
☒ USGS 8 and 12 digit HUC maps.
- ☒ U.S. Geological Survey map(s). Cite scale & quad name: Figure 2 (24,000x), Figure 3 (10,000x), Vernon Quadrangle.
- ☒ Natural Resources Conservation Service Soil Survey. Citation: Figure 6, SSURGO.
- ☒ National wetlands inventory map(s). Cite name: Figure 5, NWI, USFWS.
- ☐ State/local wetland inventory map(s): \_\_\_\_\_.
- ☒ FEMA/FIRM maps: Figure 7.
- ☐ 100-year Floodplain Elevation is: \_\_\_\_\_.(National Geodetic Vertical Datum of 1929)
- ☒ Photographs: ☒ Aerial (Name & Date): State of Indiana Best Available Orthophotography, 2011.  
or ☒ Other (Name & Date): Ground-level photos, 7/11/23, 3/2/23.
- ☐ Previous determination(s). File no. and date of response letter: \_\_\_\_\_.
- ☐ Other information (please specify): \_\_\_\_\_.

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

\_\_\_\_\_  
Signature and date of  
Regulatory staff member  
completing PJD

Kristin Wing   
\_\_\_\_\_  
Signature and date of  
person requesting PJD  
(REQUIRED, unless obtaining  
the signature is impracticable)<sup>1</sup>

<sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

# **Appendix G:**

## **Air Quality**

Indiana Department of Transportation (INDOT)  
State Preservation and Local Initiated Projects FY 2024 - 2028

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2024	2025	2026	2027	2028
Indiana Department of Transportation	43750 / 2100837	Init.	SR 7	Small Structure Replacement	Seymour	.1	STBG	\$924,000.00	Bridge Construction	CN	\$602,400.00	\$150,600.00			\$753,000.00		
Performance Measure Impacted: Bridge Condition																	
Location: N SR 250 AT RP 17+45																	
Comments:Include DES 2100837																	
Indiana Department of Transportation	43759 / 2100052	Init.	US 50	Intersect. Improv. W/ Added Turn Lanes	Seymour	0	NHPP	\$1,283,000.00	Safety Construction	CN	\$685,600.00	\$171,400.00			\$857,000.00		
									Safety ROW	RW	\$16,000.00	\$4,000.00	\$20,000.00				
Performance Measure Impacted: Safety																	
Location: Intersection of County Rd 900W in Jennings County																	
Comments:Include DES 2100052																	
Indiana Department of Transportation	43759 / 2100052	A 11	US 50	Intersect. Improv. W/ Added Turn Lanes	Seymour	0	NHPP	\$1,282,963.00	Safety Construction	CN	\$914,400.00	\$228,600.00			\$1,143,000.00		
Performance Measure Impacted: Safety																	
Location: Intersection of County Rd 900W in Jennings County																	
Comments:Increase CN \$1,143,000 FY2026.																	
Indiana Department of Natural Resources	44218 / 2200148	Init.	MS 0	Bridge Deck Replacement	Seymour	0	STBG	\$1,218,000.00	Local Bridge Program	CN	\$600,000.00	\$150,000.00			\$750,000.00		
Performance Measure Impacted: Bridge Condition																	
Location: Crosley Truss Bridge over Muscatatuck River																	
Comments:Include DES 2200148																	
Indiana Department of Transportation	44436 / 2200604	Init.	SR 3	Small Structure Replacement with Bridge	Seymour	0	STBG	\$1,341,000.00	Bridge Construction	CN	\$769,600.00	\$192,400.00				\$962,000.00	
									Bridge ROW	RW	\$16,000.00	\$4,000.00		\$20,000.00			
Performance Measure Impacted: Bridge Condition																	
Location: over UNT Graham Creek, 6.61 miles S of SR 7																	
Comments:Include DES 2200604																	
Indiana Department of Transportation	44436 / 2200604	M 45	SR 3	Small Structure Replacement with Bridge	Seymour	0	STBG	\$1,341,000.00	Bridge ROW	RW	\$0.00	\$0.00		(\$20,000.00)	\$20,000.00		
Performance Measure Impacted: Bridge Condition																	
Location: over UNT Graham Creek, 6.61 miles S of SR 7																	
Comments:Move RW from FY 25 to FY 26																	
Indiana Department of Transportation	44472 / 2200742	Init.	US 50	Bridge Thin Deck Overlay	Seymour	0	NHPP	\$835,922.00	Bridge Construction	CN	\$668,800.00	\$167,200.00		\$10,000.00		\$826,000.00	
Performance Measure Impacted: Bridge Condition																	
Location: over Muscatatuck River, 2.27 miles E of SR 3																	

\*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

Indiana Department of Transportation (INDOT)  
State Preservation and Local Initiated Projects FY 2024 - 2028

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2024	2025	2026	2027	2028
Jennings County																	
Jennings County	40461 / 1600793	M 98	IR 1012	Road Reconstruction (3R/4R Standards)	Seymour	.086	STBG	\$5,290,444.20	Local Funds	CN	\$0.00	-\$94,753.20		(\$94,753.20)			
									Group IV Program	CN	-\$379,012.80	\$0.00		(\$379,012.80)			

Location: O&M Ave 400ft E of Kipper Ln to Brownstown Rd to the end Hayden Pike																	
Comments:Decreased CN Federal \$379,012.80 and CN Local \$94,753.20.																	
Jennings County	41930 / 1802878	M 94	IR 5140	Bridge Deck Replacement	Seymour	471.6	STBG	\$1,550,583.75	Local Bridge Program	RW	\$200.00	\$0.00	(\$13,000.00)	\$13,200.00			
									Local Funds	RW	\$0.00	\$300.00	(\$3,000.00)	\$3,300.00			
Performance Measure Impacted: Bridge Condition																	
Location: CR 450 E, 0.19 Mile North of CR 485 N, near Butlerville, IN, In Section 9, Township 7 N, Range 9 E																	
Comments:Moving RW phase from FY24 to FY25. No MPO																	
Indiana Department of Transportation	43320 / 2001944	M 94	US 50	Small Structure Replacement	Seymour	0	NHPP	\$1,823,189.00	Bridge Construction	CN	\$276,800.00	\$69,200.00	\$20,000.00		\$326,000.00		
Performance Measure Impacted: Bridge Condition																	
Location: SR 3 to .13 miles W of SR 62 (the new PK for this section is 5377 and is SR 3 to SR 62)																	
Comments:Adding additional \$325,927 to CN funding for FY 26. DES includes 2001950.																	
Jennings County	43648 / 2002992	M 94	IR 8141	Bridge Rehabilitation Or Repair	Seymour	324	STBG	\$2,503,071.00	Local Bridge Program	RW	\$0.00	\$0.00	(\$8,000.00)		\$8,000.00		
									Local Funds	RW	\$0.00	\$0.00	(\$2,000.00)		\$2,000.00		
Performance Measure Impacted: Bridge Condition																	
Location: CR 250 W, 0.02 Mile South of CR 675 N, near Scipio, IN, In Section 5, Township 7 N, Range 8 E																	
Comments:Moving RW phase from FY24 to FY26. Moving CN from FY26 to FY28																	
Indiana Department of Natural Resources	44218 / 2200148	M 98	MS 0	Bridge Deck Replacement	Seymour	0	STBG	\$1,409,922.70	Local Bridge Program	CN	\$153,600.00	\$38,400.00			\$192,000.00		
Performance Measure Impacted: Bridge Condition																	
Location: Crosley Truss Bridge over Muscatatuck River																	
Comments:Add CN to FY2026																	

Jennings County Total

Federal: \$51,587.20

Match :\$13,146.80

2024: -\$6,000.00

2025: -\$457,266.00

2026: \$528,000.00

2027:

2028:

Indiana Department of Transportation (INDOT)  
State Preservation and Local Initiated Projects FY 2022 - 2026

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2022	2023	2024	2025	2026
Indiana Department of Transportation	43759 / 2100052	Init.	US 50	Intersect. Improv. W/ Added Turn Lanes	Seymour	0	NHPP	\$1,126,578.00	Safety Construction	CN	\$685,262.40	\$171,315.60					\$856,578.00
									Safety ROW	RW	\$16,000.00	\$4,000.00			\$20,000.00		
Performance Measure Impacted: Safety																	
Location: Intersection of County Rd 900W in Jennings County																	
Comments:Include DES 2100052																	
Indiana Department of Transportation	43786 / 2100949	Init.	SR 7	Small Structure Maint and Repair	Seymour	.1	STBG	\$750,000.00	Bridge Consulting	PE	\$192,000.00	\$48,000.00	\$240,000.00				
									Bridge Construction	CN	\$408,000.00	\$102,000.00		\$510,000.00			
Performance Measure Impacted: Safety																	
Location: SR 7 Culvert, 4.26 miles N SR 3 N JCT																	
Comments:Include DES 2100948, 2100949																	
Indiana Department of Natural Resources	44218 / 2200148	A 02	MS 0	Bridge Deck Replacement	Seymour	0	STBG	\$1,037,500.00	Local Bridge Program	CN	\$600,000.00	\$150,000.00					\$750,000.00
									Local Bridge Program	PE	\$230,000.00	\$57,500.00		\$187,500.00			\$100,000.00
Performance Measure Impacted: Bridge Condition																	
Location: Crosley Truss Bridge over Muscatatuck River																	
Comments: Add PE in FY 23 and CN in FY 26. No MPO																	
Indiana Department of Transportation	44436 / 2200604	A 02	SR 3	Small Structure Replacement	Seymour	0	STBG	\$1,257,492.00	Bridge ROW	RW	\$16,000.00	\$4,000.00				\$20,000.00	
									Bridge Consulting	PE	\$220,000.00	\$55,000.00		\$275,000.00			
Performance Measure Impacted: Bridge Condition																	
Location: over UNT Graham Creek, 6.61 miles S of SR 7																	
Comments: Add FY23 PE and RW FY 25. No MPO																	

**Jennings County Total**  
Federal: \$71,105,943.19      Match :\$17,438,280.21      2022: \$19,806,333.20      2023: \$27,653,874.35      2024: \$7,742,509.92      2025: \$28,395,593.81      2026: \$4,945,912.12

\*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

# **Appendix H:**

## **Additional Studies**

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated March 2022)

ProjectNumber	SubProjectCode	County	Property
1800405	1800405H	Jennings	Wells (Commiskey) Woods Nature Preserve

\*Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with IDNR, Division of Outdoor Recreation, should occur.





100 North Senate Avenue  
Room N758-ES  
Indianapolis, Indiana 46204

PHONE: (317) 233-6795

**Eric Holcomb, Governor**  
**Michael Smith, Commissioner**

Date: December 23, 2024

Mr. Chad Springer  
Property Manager  
Indiana Department of Natural Resources (IDNR)  
2010 S. State Highway 3  
North Vernon, IN 47265

RE: Section 4(f) Temporary Occupancy  
Des. No. 2200148, Bridge Rehabilitation  
Park Road over the Muscatatuck River  
Jennings County, Indiana

Dear Mr. Springer:

The Indiana Department of Transportation (INDOT), in conjunction with the Indiana Department of Natural Resources (IDNR), is planning a bridge project on Park Road over the Muscatatuck River (Des 2200148) within Crosley Fish and Wildlife Area, in Jennings County, Indiana. The project area is wooded with steep slopes down to the river on each bank, with the bridge over the Muscatatuck River. There is a recreational resource, a boat ramp with a parking lot, adjacent to the bridge in the northeast quadrant of the project area (Figure 3). The project will be federally funded. The preferred alternative is to rehabilitate the existing bridge, P000-40-07088 B (NBI: 060380). This structure is listed as a programmatically determined, non-select historic bridge eligible for the National Register of Historic Places (NHRP) on the Indiana Historic Bridge Inventory list. As such, it will be processed under the Historic Bridge Programmatic Agreement.

### Section 4(f)

The environmental review process includes the determination of the project's potential impacts to Section 4(f) resources. Section 4(f) of the U.S. Department of Transportation Act of 1966 prohibits the use of certain public and historic lands for federally funded transportation facilities unless there is no feasible and prudent alternative. The law applies to significant publicly owned parks, recreation areas, wildlife and waterfowl refuges, and NRHP-eligible or listed historic properties. The above-referenced bridge is within the IDNR property, Crosley Fish and Wildlife Area, which falls within the definition outlined in 23 USC 138, 23 CFR Part 774 (23 CFR 774), and the July 20, 2012 FHWA Section 4(f) Policy Paper as "any publicly owned land from a public park, recreation area, or wildlife and waterfowl refuge of national, state, or local significance as so determined by such officials."

The project will involve construction access and staging on part of the Section 4(f) property's recreational resource near the bridge. No temporary or permanent right-of-way will be needed. Minor impacts to the property will be necessary to complete the project and will consist of removing 5 trees for construction access. During the construction of the scour countermeasures at the piers, the boat ramp may require a maximum of 5 intermittent temporary closures of no longer than 8 hours for each closure. Barricades or tape will be used to temporarily block access to the boat ramp. Signs will be attached to the bridge to alert recreational users of the boat ramp closure. A portion of the parking lot may be used to allow the Contractor easy access to the bridge and provide an area to securely store materials and equipment during construction. The Contractor may not use more than a third of the parking lot area for storage, and the remaining area will remain open to the public. An IDNR construction



in a floodway permit is pending review and tree mitigation deemed necessary by IDNR will be incorporated into this project.

The bridge has been closed since 2019 and will remain closed for the duration of the project. There will be no change in ownership of the land. This work will not cause temporary or permanent adverse changes to the activities, features, or attributes of the property, and disturbed areas will be graded to match existing contours and reseeded with a floodplain seed mix.

The project will not use these resources by taking permanent right of way and will not indirectly use the resource in such a way that the protected activities, features, or attributes that qualify a resource for protection under Section 4(f) are substantially impaired. Construction is anticipated to begin in Spring 2026. The existing property to be affected is primarily gravel, concrete, and a parking lot. The project will not impact the recreational amenities, will not disrupt Section 4(f) attributes, and will not lead to a change in ownership or use of the property.

#### **Section 4(f) Temporary Occupancy:**

Pursuant to 23 CFR 774.13(d), temporary occupancy results when a Section 4(f) property, in whole or in part, is required for construction-related activities. A temporary occupancy is a type of exception to Section 4(f) approval. For Section 4(f) temporary occupancy to not constitute as a Section 4(f) use, the following conditions must be satisfied:

1. Duration must be temporary, i.e., less than the time needed for construction of the project, and there should be no change in ownership of the land; **(The project will not require permanent or temporary right-of-way from Section 4(f) resources)**
2. Scope of the work must be minor, i.e., both the nature and the magnitude of the changes to the Section 4(f) property are minimal; **(The scope of work for this project will be minor in nature. The boat ramp may require intermittent temporary closures, and the parking lot will remain open during construction)**
3. There are no anticipated permanent adverse physical impacts, nor will there be interference with the protected activities, features, or attributes of the property, on either a temporary or permanent basis; **(Activities on the boat ramp and parking lot will be maintained throughout construction with signs, barricades, and tape)**
4. The land being used must be fully restored (i.e., the property must be returned to a condition at least as good as what existed prior to the start of the project); **(Land will be fully restored upon project completion)**
5. There must be documented agreement of the official(s) with jurisdiction over the Section 4(f) resource regarding the above conditions. **(Please see below for a comment and signature line that will serve as your concurrence that the conditions have been met)**

It has been determined that the intermittent temporary closures of the boat ramp for construction access and the temporary staging in a portion of the parking lot meet the criteria listed above and classify as temporary occupancy. In order to proceed with the proposed project under a temporary occupancy that will not constitute a use, INDOT is requesting your concurrence that the proposed temporary impacts to the Crosley Fish and Wildlife Area boat ramp and parking lot under your jurisdiction will adhere to the above criteria.

Please review this information and, if you are in agreement, respond with your concurrence so that the project may proceed. Project location maps and a plan set with plan sheets detailing the construction

are attached for your review. Please do not hesitate to contact me with any questions, comments, or concerns you. Thank you for considering this request.

Sincerely,



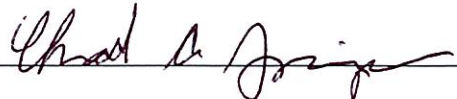
Kristin Wing  
Senior Environmental Analyst  
Egis BLN USA, Inc.  
(317) 806-4342  
[kristin.wing@egis-group.com](mailto:kristin.wing@egis-group.com)

Attachments:

~~Maps (Location, Topographic, Aerial)~~  
~~Plan Sheets~~

Attachments have been removed to limit duplication and the size of the CE document. Maps and plan sheets can be found in Appendix B.

I, Chad Springer, the official with jurisdiction over the property in question have evaluated the project information and concur that the rehabilitation of the bridge meets the conditions of 23 CFR 774.13(d).

OWJ Signature: 

Date: 12/26/24

Chad Springer  
Property Manager  
Indiana Department of Natural Resources (IDNR)