

## **Appendix D**

### **Section 106 of the National Historic Preservation Act (NHPA)**

## Minor Projects PA Project Submittal and Assessment Form

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### SECTION 1

*Submittal of this form is only required for projects where Category B applies. Projects qualifying under Category A do not require submittal of this form. SECTION 2 (for Conditions of Category B.1 for curb/sidewalk) or SECTION 3 (for Conditions of Category B.9 for drainage structures) may be required as determined by INDOT-Cultural Resources Office (INDOT-CRO) review. INDOT-CRO will notify applicant if the Minor Projects PA does not apply.*

#### **Part 1: Project Information-Completed by Applicant (Consultant/PM/Project Sponsor/INDOT District Staff)\***

*\*A qualified professional historian (QP) is not required to complete Part I INDOT-Cultural Resources Office (INDOT-CRO) staff will be responsible for completion of Part II.*

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**Original Submission Date:** April 1, 2023

**Amended Submission Date\*:**

*\*Consult with INDOT-CRO to determine whether an amendment is required. For revisions/updates to original form, please detail in applicable sections below. Please use red font to distinguish the revisions/updates.*

#### **Submitted By (Provide Name and Firm/Organization):**

Elizabet Biggio  
Architectural Historian II  
Butler, Fairman, & Seufert, Inc.  
ebiggio@bfsengr.com

**Project Designation Number:** 2003065

**Route Number:** County Road 1050 South

**Feature crossed (if applicable):** Grant Creek

**City/Township:** Liberty Township

**County:** Wabash County

#### **Project Description:**

The Wabash County Board of Commissioners proposes a project involving Wabash Co. Bridge 143 carrying County Road (CR) 1050 South over Grant Creek in Wabash County, Indiana (NBI #8500465). The project is within Liberty Township on the USGS La Fontaine Quadrangle, in Section 28, Township 26 North, Range 7 East.

Wabash County Bridge 143 is a c. 1960 three-span concrete channel beam bridge. The bridge is approximately 67.5 feet long with a clear roadway width of 24.6 feet. It carries two 11.5-foot lanes of traffic with 1-foot shoulders and is on a 30-degree skew. Bridge 134 was determined non-historic in the Indiana Historic Bridge Inventory. CR 1050 South is a two-lane, east-west rural local road. The clear roadway width is 18 feet. The detour length is 3 miles. Land use in the area is forested, agricultural, and residential.

The need for the project derives from the condition of the bridge, particularly the substructure, which was given a condition rating of 4 (out of 9) or "poor" in the May 17, 2022 Bridge Inspection Report. The purpose of the project is to provide an improved crossing of Grant Creek.

The proposed project will replace Wabash Co. Bridge 143. The new bridge will be a single span, approximately 92.33 feet long. The out to out coping will be approximately 44.25 feet. The bridge will carry two 12-foot lanes of traffic with 8.63-foot shoulders. Riprap will be installed. In order to construct the bridge one side at a time, use of a causeway and temporary road widening is anticipated. CR 1050 dead-ends to the west of the project area, and Wabash Co. Bridge 143 provides the only access to the properties west of Grant Creek.

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CR 1050 North will retain its straight horizontal alignment. The total project length will be approximately (0.25 mile) long. Approximately 2.1 acres of permanent and 0.6 acre of temporary right-of-way acquisition will be required. The maximum depth of excavation for the installation of the new bridge, channel clearing, and benching will be approximately 6 feet. Approximately 0.9 acre of tree clearing will be required. Construction is anticipated to begin in the Fall of 2025.

**If the project includes any curb, curb ramp, or sidewalk work, please specify the location(s) of such work:** N/A

**For bridge or small structure projects, please list feature crossed, structure number, NBI number, and structure type:**

Grant Creek  
NBI No. 8500465  
Structure No. 85-00143  
Concrete Beam

**For bridge projects, is the bridge included in INDOT's Historic Bridge Inventory (<https://www.in.gov/indot/2531.htm>)?**

☒ Yes ☐ No

**If yes, did the inventory determine the bridge eligible for or listed in the National Register of Historic Places? Please provide page # of entry in Historic Bridge Inventory.**

☐ Yes ☒ No

**Inventory Page #** 1044

**Will there be right-of-way acquisition as part of this project?**

☒ Yes ☐ No

**If yes was checked above, please check all that apply:**

☒ Permanent ☒ Temporary ☐ Reacquisition

**If applicable, identify right-of-way acquisition locations in text below and in attached mapping. Please specify how much (both temporary and permanent) and indicate what activities are included in the proposed right-of-way:**

Approximately 1.16 acres of permanent and 0.10 acre of temporary right-of-way acquisition will be required. Acquisition is expected on all sides of the bridge in order to accommodate the new structure and for construction access, largely for the causeway.

**Is there any potential for additional temporary right-of-way to be needed later for purposes such as access, staging, etc.?**

☐ Yes ☒ No

**Archaeology (check one):**

☐ **All proposed activities are presumed to occur in previously disturbed soils\***

*\*INDOT-CRO will notify you if project area includes undisturbed soils and requires an archaeological reconnaissance.*

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- ☒ **Project takes place in undisturbed soils and the archaeology report is included in submission or will be forthcoming\***

*\* If an archaeology report is required, the Minor Projects PA Form will not be finalized until the report is reviewed and approved by INDOT-CRO. For INDOT-sponsored projects, INDOT-CRO may be able to complete the archaeological investigation. If you would like to request that INDOT-CRO complete an archaeological investigation, please contact the INDOT-CRO archaeology team lead. See CRM Pt. 1 Ch. 3 for current contact information.*

**Please specify all applicable categories and condition(s) (highlight applicable conditions in yellow)\*:**

B-12. Replacement, widening, or raising the elevation of the superstructure on existing bridges, and bridge replacement projects (when both the superstructure and substructure are removed), under the following conditions [BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]:

### **Condition A (Archaeological Resources)**

One of the two conditions listed below must be met (EITHER Condition i or Condition ii must be satisfied):

- i. Work occurs in previously disturbed soils; OR
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

### **Condition B (Above-Ground Resources)**

The conditions listed below must be met (BOTH Condition i and Condition ii must be satisfied)

- i. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; AND
- ii. With regard to the subject bridge, at least one of the conditions listed below is satisfied (AT LEAST one of the conditions a, b or c, must be fulfilled):
  - a. The latest Historic Bridge Inventory identified the bridge as non-historic (see <http://www.in.gov/indot/2531.htm>);
  - b. The bridge was built after 1945, and is a common type as defined in Section V. of the Program Comment Issued for Streamlining Section 106 Review for Actions Affecting Post-1945 Concrete and Steel Bridges issued by the Advisory Council on Historic Preservation on November 2, 2012 for so long as that Program Comment remains in effect AND the considerations listed in Section IV of the Program Comment do not apply;
  - c. The bridge is part of the Interstate system and was determined not eligible for the National Register under the Section 106 Exemption Regarding Effects to the Interstate Highway System adopted by the Advisory Council on Historic Preservation on March 10, 2005, for so long as that Exemption remains in effect.

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Check ☐ if SECTION 2: Minor Projects PA Category B-1, Condition B-ii Submission is included

Check ☐ if SECTION 3: Minor Projects PA Category B-9, Condition B-i-c-2 or B-ii-b-3 Submission is included

### Part II: Completed by INDOT-CRO

*Amendments will be shown in red font.*

#### Information reviewed (please check all that apply):

General project location map ☒ USGS map ☒ Aerial photograph ☒ Soil survey data ☒

General project area photos ☒ Archaeology Reports ☒ Historic Property Reports ☐

Indiana Historic Buildings, Bridges, and Cemeteries Map/Interim Report ☒

Bridge inspection information/BIAS ☒ Historic Bridge Inventory Database ☒

SHAARD ☒ SHAARD GIS ☒ Streetview Imagery ☒ County GIS Data/Property Cards ☒

#### Other (please specify):

Connolly, Jocelyn

2023 Phase Ia Archaeological Reconnaissance Survey for the Proposed CR E 1050 S over Grant Creek Bridge #143 Project, Wabash County, Indiana (INDOT Des. No. 2003065). Report on file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, IN.

Are there any commitments associated with this project? If yes, please explain and include in the Additional Comments Section below.      yes ☐      no ☒

Does the project result in a de minimis impact to a Section 4(f) protected historic resource? If yes, please explain in the Additional Comments Section below.      yes ☐      no ☒

#### Additional Comments:

##### Above-ground Resources

With regard to above-ground resources, an INDOT Cultural Resources Office (CRO) architectural historian, who meets the Secretary of the Interior's Professional Qualification Standards per 36 CFR Part 61, performed a desktop review. An area of potential effects (APE) of 0.25 mile was examined. First, the historian checked the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Wabash County. No listed properties are located within the APE.

The Wabash County data for the Indiana Historic Sites and Structures Inventory (IHSSI) was reviewed through the Indiana State Historic Architectural and Archaeological Research Database (SHAARD), and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). No IHSSI properties are recorded within the APE.

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According to the IHSSI rating system, generally properties rated "contributing" do not possess the level of historical or architectural significance necessary to be considered individually National Register eligible, although they would contribute to a historic district. If they retain material integrity, properties rated "notable" might possess the necessary level of significance after further research. Properties rated "outstanding" usually possess the necessary level of significance to be considered National Register eligible, if they retain material integrity. Historic districts identified in the IHSSI are usually considered eligible for the National Register.

The eastern half of the APE, located on the north and south sides of CR 1050 S east of Grant Creek, is composed of wooded areas and agricultural fields. The western half of the APE, located on the north and south sides of CR 1050 S west of Grant Creek, contains six residential properties. Property record cards, which include photographs, found online for Wabash County were examined. The first property west of the bridge is 2407 E 1050 S, which contains a 1 ½-story house built in 1988 and outbuildings from the 2010s. The next house property is 2373 E 1050 S, which contains an early 20<sup>th</sup> century wood-frame house with modern outbuildings. The house has a hipped roof with a shed-roof front dormer. It also has a modern porch, vinyl siding and windows, and a large garage addition. The next house is located at 2326 E 1050 S. It is a 1970 ranch house with a pole barn. It appears to have some replacement doors and windows, and perhaps new siding. The next property is 2318 E 1050 S, which contains a 1988 ranch house and modern outbuildings. The next house is located at 2291 E 1050 S. It is a one-story structure built in 2009 with contemporary outbuildings. The final house within the APE is located at 2258 E 1050 S. It is an early 20<sup>th</sup> century T-plan structure that has been heavily altered. It has vinyl siding and windows and multiple additions that obscure its original massing. Based on their alterations and/or their lack of significance, none of the properties within the APE appear to rise to the level of significance to be considered National Register eligible individually; nor does the potential for a historic district appear to exist. None of the properties warrant an IHSSI rating higher than contributing.

With regard to the bridge itself, Wabash County No. 143 (NBI No. 8500465) is a 3-span reinforced concrete channel beam structure that was built in 1960. It was determined not to be National Register eligible in the Indiana Historic Bridge Inventory.

Based on the available information, as summarized above, no above-ground concerns exist.

### **Archaeological Resources**

An INDOT-CRO archaeologist who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 reviewed the Phase Ia archaeological reconnaissance submitted by Gray & Pape, Inc. on behalf of Butler, Fairman & Seufert, Inc. (Connolly 2023).

A 3.7-acre survey area was examined through a combination of systematic shovel probing (n=55), soil coring (n=2), and visual inspection of disturbed areas. The area encompassing CR E 1050 S and Wabash County Bridge #143 has been previously disturbed from the construction of the country road, existing bridge, Grant Creek, embankment, a gravel driveway, and buried utilities. The north and south sides of CR E 1050 S within the survey area boundaries were subject to visual inspection and shovel probing in 15 m intervals within untilled agricultural fields with 30 percent visibility and wooded tract areas. Two bucket auger probes were excavated on the northside of CR E 1050 S on a narrow floodplain west of Grant Creek due to the presence of alluvial soils. One of the augers was excavated by extending the floor of one of the shovel probes. All shovel tests and bucket augers were negative. No archaeological sites were documented as a result of the survey and no further investigation is recommended (Connolly 2023).

Therefore, there are no archaeological concerns as long as the project scope and footprint do not change.

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**Accidental Discovery:** If any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction within 100 feet of the discovery will be stopped, and INDOT-CRO and the Division of Natural Resources-Division of Historic Preservation and Archaeology (DNR-DHPA) will be notified immediately.

**INDOT-CRO staff reviewer(s):** Mary Kennedy, Matt Coon, and KayLee Blum

INDOT Approval Date: 6/12/2023

Amendment Approval Date (if applicable):

*\*\*\*Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.*



# INDIANA ARCHAEOLOGICAL SHORT REPORT

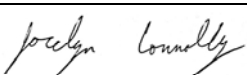
State Form 54566 (R3 / 3-22)

## INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF HISTORIC PRESERVATION AND ARCHAEOLOGY

402 West Washington Street, Room W274  
Indianapolis, Indiana 46204-2739  
Telephone Number: (317) 232-1646  
Fax Number: (317) 232-0693  
E-mail: [dhpa@dnr.IN.gov](mailto:dhpa@dnr.IN.gov)

Where applicable, the use of this form is recommended but not required by the Division of Historic Preservation and Archaeology (DHPA).

Name(s) of author(s) Jocelyn Connolly		Date (month, day, year) 6/9/2023
Title of project Phase Ia Archaeological Reconnaissance Survey for the Proposed CR E 1050 S over Grant Creek Bridge #143 Project, Wabash County, Indiana (INDOT Des. No. 2003065)		
This document is being used to report on the results of: <input type="checkbox"/> Records check only <input checked="" type="checkbox"/> Records check and Phase 1a archaeological reconnaissance <input type="checkbox"/> An addendum to a previous archaeological report. For an addendum, provide the following information.		
Name(s) of author(s) of previous report		
Title of previous report		
Date of previous report (month, day, year)	DHPA number	

PROJECT OVERVIEW			
Description of project The proposed project will replace Wabash Co. Bridge 143 (Figure 1). The need for the project derives from the condition of the ca. 1960 bridge, particularly the substructure, which was given a condition rating of 4 (out of 9) or "poor" in the May 17, 2022 Bridge Inspection Report. The bridge is experiencing transverse and longitudinal cracking on the wearing surface, beams, and piers. The existing bridge is also below the flood elevation of the downstream Mississinewa Reservoir, located approximately 3 miles downstream, resulting in overtopping. The purpose of the project is to provide an improved crossing of Grant Creek, with an overall condition of "good", or at least a 7 (out of 9). The new bridge will be a single span, approximately 92.33 feet long. The bridge will carry two 12-foot lanes of traffic with 8.63-foot shoulders. Riprap will be installed. The project area is approximately 0.21 miles long and will require 0.59 acres of temporary ROW, as well as 1.88 acres of permanent ROW. In order to construct the bridge one side at a time, use of a causeway and temporary road widening is anticipated. CR E 1050 S dead-ends to the west of the project area, and Wabash Co. Bridge 143 provides the only access to the properties west of Grant Creek.			
INDOT designation number(s) 2003065	Project number 22-89006.001	DHPA number	DHPA plan number
Prepared for: (Company / Institution / Agency) Butler, Fairman & Seufert, Inc.			
Name of contact Elizabet Biggio			
Address (number and street, city, state, and ZIP code) 8450 Westfield Blvd., Suite 300, Indianapolis, IN 46240-8302			
Telephone number (317)713-4615	E-mail address ebiggio@bfsengr.com		
Name of principal investigator Jocelyn Connolly			
Name of company / institution Gray & Pape, Inc.			
Address (number and street, city, state, and ZIP code) 1318 Main St., Ste. 1			
Telephone number (513)287-7700	E-mail address jconnolly@graypape.com		
Signature of principal investigator (Required) 		Date (month, day, year) 6/9/2023	

PROJECT LOCATION						
County Wabash	USGS 7.5' series topographic quadrangle La Fontaine, IN				Civil township Liberty	
Legal Location						
Grid alignment						
1/4	1/4	1/4	1/4	Section	Township	Range

The pre- and industrial history of Wabash County through the 19th and early 20th centuries largely reflects broader statewide trends of shifts from subsistence agriculture to industry.

Records check (*Check all that apply*)

- ☐ The project area does not have the potential to contain archaeological resources. *Provide explanation / justification.*
- ☐ There are previously recorded archaeological resources within the project area, but those resources do not warrant additional archaeological investigation. *Provide explanation / justification.*
- ☒ The project area contains previously recorded archaeological resources that warrant additional investigation and/or the project area has the potential to contain archaeological resources. *Provide explanation / justification.*
- ☒ Based upon the records check results, a reconnaissance has been conducted.
- ☐ A cemetery is located within or adjacent to the project area.

Explanation / justification

A 1/2-mile radius of the survey area was examined for this Literature Review. Historical mapping suggests basic continuity over the past century in this region as an agricultural/residential area (USGS 1953a, 1953b). The earliest available maps of the project area show it as just east of the Mo-Shin-go-ma-sha Reserve No. 22, and not far north of the "Old Indian Village," located above the confluence of Josina/Jocinah Creek and the Mississinewa River (Figure 3) (Andreas 2022[1876]:64, Paul 2022[1875]:50). The records check did not identify any previously recorded archaeological resources within the project area, but, based on previous cultural resource surveys conducted in the general vicinity (Figure 2), and the presence of possible undisturbed soils, the project area has the potential to contain archaeological resources.

Phase 1a archaeological reconnaissance (*Check all that apply*)

- ☐ No Phase 1a reconnaissance was conducted.
- ☒ Phase 1a reconnaissance located no archaeological resources.
- ☐ Previously recorded sites were in the project area.
- ☐ Artifacts and/or features at a previously recorded site(s) within the project area were not discovered. *List the site(s) below.*
- ☐ Phase 1a reconnaissance has identified landforms conducive to buried archaeological deposits. *Describe below.*

List sites.

Describe landforms.

The project area consists of the Grant Creek floodplain on the otherwise flat to rolling till plain.

Number of shovel probes excavated  
55

Number of cores / auger probes  
2 auger probes (1 of which was in the floor of a shovel test pit)

Describe disturbances. Attach photographs documenting disturbances.

Much of the survey area was disturbed (Figure 4). The most significant agent of disturbance was the construction of Bridge 143 over Grant Creek. Field 2 experienced landscaping when the adjacent house and driveways were constructed. Installation of additional infrastructure including roadside ditches and above- and below-ground utility lines, have all been sources of disturbance in the survey areas. The disturbance was revealed by visual inspection, and is documented in the following section (Figures 4-7).

Actual area surveyed (hectares)  
1.5

Actual area surveyed (acres)  
3.7

Explain results of fieldwork.

Field 1 is in corn stubble with 30% visibility and was shovel tested at 15-m intervals (Figures 4 and 5). Field 1 is on the east side of the creek. Soils were eroded and very shallow. A total of 41 shovel tests were excavated in this area, which contained 5–25 cmbs of dark brown (10YR 3/3) silt loam over yellowish brown (10YR 5/6) clay subsoil. No artifacts or sites were identified.

Field 2 is in a wooded tract with a drainage cut on the south side of the road that was surveyed through visual walkover (Figures 4 and 6). The area on the immediate north side of the road has 30% slope and was pedestrian surveyed. The remainder of the wooded area was covered in leaf litter and was shovel tested at 15-m intervals. Soils were eroded and very shallow. Three shovel tests were excavated in this area, which contained 5–15 cmbs of dark brown (10YR 3/3) silt loam over yellowish brown (10YR 5/4) silty clay subsoil. No artifacts or sites were identified.

Field 3 is in a wooded tract located on both sides of the creek and was shovel tested at 15-m intervals (Figures 4 and 7). Two auger tests were excavated on the narrow floodplain west of the creek, one of which was placed in the floor of a shovel test pit (A14). Areas of excessive slope and the drainage were not shovel tested. Soils on the east side of the creek were eroded and very shallow. Eleven shovel tests were excavated in this area, two of which contained subsoil at the surface. The nine remaining shovel tests contained 5–20 cmbs of dark brown (10YR 3/3) silt loam over yellowish brown (10YR 5/6) clay subsoil. The auger found the aforementioned subsoil continued to a depth of 80 cmbs, followed by extremely compact sediments with redoximorphic features. The auger test was terminated at 80–90 cmbs. No artifacts or sites were identified.

## RECOMMENDATIONS

Records check (Check all that apply)

- ☐ No archaeological investigation is recommended before the project is allowed to proceed because the records check has determined that the project area does not have the potential to contain archaeological resources.
- ☐ A Phase 1a archaeological reconnaissance is recommended.
- ☒ Based upon the records check results, a Phase 1a archaeological reconnaissance was recommended and has been conducted.
- ☐ A cemetery development plan may be required under Indiana Code 14-21-1-26.5 because project ground disturbance will be within 100 feet of a cemetery.

Phase 1a archaeological reconnaissance (Check all that apply)

- ☒ It is recommended that the project be allowed to proceed as planned because the Phase 1a archaeological reconnaissance has located no archaeological sites within the project area and/or previously recorded sites that were investigated warrant no additional investigation.
- ☐ It is recommended that Phase 1c archaeological subsurface reconnaissance be conducted before the project is allowed to proceed. The Phase 1a archaeological reconnaissance has determined that the project area includes landforms which have the potential to contain buried archaeological deposits.

Other recommendations / commitments

**Pursuant to IC-14-21-1, if any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646.**

REQUIRED ATTACHMENTS

- ☒ Figure showing project location within Indiana
- ☒ USGS topographic map showing the project area (1:24,000 scale)
- ☒ Aerial photograph showing the project area, land use and survey methods
- ☒ Photographs of the project area, including, if applicable, photographs documenting disturbances
- ☒ Project plans (if available)

Other attachments

Project landowners, historical map.

References cited (See short report instructions for required references to be consulted)

Andreas, Alfred Theodore

2022[1876] Map of Wabash County. Page 64 in Illustrated historical atlas of the State of Indiana. Baskin, Forster & Co., Chicago, Illinois. Reproduced by the David Rumsey Collection. <https://www.davidrumsey.com/luna/servlet/s/627t6g>. Accessed December 2022.

Crow, Warder

1934 Indians of Wabash County, Indiana, edited 1959 by Mary C. O'Hair. Wabash County Historical Society, Wabash, Indiana.

Cunningham, Wilbur M.

1948 A Study of the Glacial Kame Culture of Michigan, Ohio, and Indiana. Museum of Anthropology Occasional Contributions 12:31–32. University of Michigan Press, Ann Arbor.

Environmental Systems Research Institute (ESRI)

2018 Aerial Imagery flown May 2, 2018. ESRI, Redlands, California.

Faulkner, Charles H.

1972 The Late Prehistoric Occupation of Northwestern Indiana: A Study of the Upper Mississippian Cultures of the Kankakee Valley. Prehistory Research Series No. 5(1):13–122, Indiana Historical Society, Indianapolis.

Glenn, Elizabeth J.

1977 Ethnohistoric Report on the Battle of Mississinewa. In Ethnohistorical and archaeological descriptive accounts of the War of 1812 Mississinewa Campaign and aftermath: project report, edited by B. K. Swartz, Jr. Ball State University Archaeological Report 14.

Hixson, W. W. & Company

1920 Plat Books of Indiana Counties, Volume 6 (T–W). W. W. Hixson & Company, Rockford, Illinois.

Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology

2022a Guidebook for Indiana Historic Sites and Structures Inventory – Archaeological Sites.

[https://www.in.gov/dnr/historic/files/hp-archaeology\\_guidebook.pdf](https://www.in.gov/dnr/historic/files/hp-archaeology_guidebook.pdf). Accessed December 2022.

# **Appendix E**

## **Red Flag Investigation**

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Indianapolis, IN 46240  
317.713.4615  
bfsengr.com



INDIANAPOLIS | LAFAYETTE | MERRILLVILLE  
FORT WAYNE | PLAINFIELD | SOUTH BEND | LOUISVILLE

Date: December 30, 2022

To: Site Assessment & Management  
Environmental Policy Office - Environmental Services Division (ESD)  
Indiana Department of Transportation  
100 N Senate Avenue, Room 758-ES  
Indianapolis, IN 46204

From: Elizabet Biggio  
Butler, Fairman, & Seufert, Inc.  
8450 Westfield Boulevard, Suite 300  
Indianapolis, IN 46240  
ebiggio@bfsengr.com

Re: RED FLAG INVESTIGATION  
DES 2003065, Local Project  
Wabash Co. Bridge 143  
CR 1050 South over Grant Creek  
Wabash County, Indiana

## PROJECT DESCRIPTION

### Brief Description of Project:

The Wabash County Board of Commissioners proposes a project involving Wabash Co. Bridge 143 carrying County Road (CR) 1050 South over Grant Creek in Wabash County, Indiana (Structure #85-00465). The project is within Liberty Township on the USGS La Fontaine Quadrangle, in Section 28, Township 26 North, Range 7 East.

Wabash County Bridge 143 is a c. 1960 three-span concrete channel beam bridge. The bridge approximately is 67.5 feet long with a clear roadway width of 24.6 feet. The need for the project derives from the condition of the bridge, particularly the substructure, which was given a condition rating of 4 (out of 9) or "poor" in the May 17, 2022 Bridge Inspection Report. The purpose of the project is to provide an improved crossing of Grant Creek.

The proposed project will replace Wabash Co. Bridge 143. The new bridge will be a single span, approximately 92.33 feet long. The out to out coping will be approximately 44.25 feet. The bridge will carry two (2) 12-foot lanes of traffic with 8.63-foot shoulders. Riprap will be installed. The project area is approximately 0.25 mile long. In order to construct the bridge one side at a time, use of a causeway and temporary road widening is anticipated. CR 1050 dead-ends to the west of the project area, and Wabash Co. Bridge 143 provides the only access to the properties west of Grant Creek.

Bridge and/or Culvert Project: Yes ☒ No ☐ Structure #85-00465

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).

Proposed right of way: Temporary ☒ # Acres 0.10 Permanent ☒ # Acres 1.16, Not Applicable ☐  
 Type and proposed depth of excavation: To removal the existing and install a new bridge, channel clearing, and benching to a depth of approximately 6 feet  
 Maintenance of traffic (MOT): Phased construction, keeping one lane of traffic open at all times.  
 Work in waterway: Yes ☒ No ☐ Below ordinary high water mark: Yes ☒ No ☐  
 State Project: ☐ LPA: ☒  
 Any other factors influencing recommendations: The project description is subject to change

### **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	<b>N/A</b>	Recreational Facilities	<b>N/A</b>
Airports <sup>1</sup>	<b>N/A</b>	Pipelines	<b>N/A</b>
Cemeteries	<b>N/A</b>	Railroads	<b>N/A</b>
Hospitals	<b>N/A</b>	Trails	<b>N/A</b>
Schools	<b>N/A</b>	Managed Lands	<b>1</b>

<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. Mississinewa Lake is located approximately 0.30 mile northwest of the project area. No impact is expected.

### **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	<b>N/A</b>	Canal Routes - Historic	<b>N/A</b>
Karst Springs	<b>N/A</b>	NWI - Wetlands	<b>8</b>
Canal Structures – Historic	<b>N/A</b>	Lakes	<b>3</b>
NPS NRI Listed	<b>N/A</b>	Floodplain - DFIRM	<b>3</b>
NWI-Lines	<b>3</b>	Cave Entrance Density	<b>N/A</b>
IDEM 303d Listed Streams and Lakes (Impaired)	<b>N/A</b>	Sinkhole Areas	<b>N/A</b>
Rivers and Streams	<b>11</b>	Sinking-Stream Basins	<b>N/A</b>

Explanation:

**NWI-Wetlands:** Eight (8) wetlands are located within the 0.5 mile search radius. Two (2) wetlands are located within the project area. A Waters of the U.S. Report is recommended and coordination with the appropriate agency, if applicable, will occur.

**Lakes:** Three (3) lakes are mapped within the 0.5-mile search radius. The nearest lake is approximately 0.33 mile northwest of the project area. No impact is expected.

**Floodplain-DFIRM:** Three (3) floodplain polygons are located within the 0.5 mile search radius. The project is located within one (1) floodplain polygon. Coordination with the appropriate agency occur.

**NWI-Lines:** Three (3) NWI-Line segments are located within the 0.5-mile search radius. One (1) NWI-Line segment is located within the project area along Grant Creek. A Waters of the U.S. Report is recommended and coordination with the appropriate agency, if applicable, will occur.

**Rivers and Streams:** Eleven (11) stream segments are located within the 0.5 mile search radius. Grant Creek is located within the project area. A Waters of the U.S. Report is recommended and coordination with the appropriate agency, if applicable, will occur.

#### **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>4</b>	Mineral Resources	<b>N/A</b>
Mines – Surface	<b>N/A</b>	Mines – Underground	<b>N/A</b>

Explanation:

**Petroleum Wells:** Four (4) petroleum wells are located within the 0.5 mile search radius. The nearest petroleum well is located approximately 0.04 mile south of the project area. Coordination with IDNR Oil and Gas Division will occur.

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

Explanation: No hazardous materials were identified within the 0.5 mile search radius.

## **ECOLOGICAL INFORMATION SUMMARY**

The Wabash 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\\_wabash.pdf](https://www.in.gov/dnr/nature-preserves/files/np_wabash.pdf). A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of ETR species. Coordination with USFWS and IDNR will occur.

A review of the USFWS Database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in a rural area surrounded by agriculture and forested area. The May 17, 2022 inspection report for Bridge 85-00143 states that no evidence of bats was seen or heard under the bridge. 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**

INFRASTRUCTURE: N/A

WATER RESOURCES:

A Waters of the US Report is recommended based on mapped features and coordination with the appropriate agency, if applicable, will occur for the following features:

- Two (2) wetlands are located adjacent to the project area.
- The project area is located within a floodplain (coordination only).
- One (1) stream segment, Grant Creek, flows through the project area.
- One (1) NWI-Line segment is located within the project area.

MINING/MINERAL EXPLORATION: One petroleum well is located approximately 0.04 mile south of the project area. Coordination with IDNR Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION:

Coordination with IDNR and USFWS 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:

**Dariane  
Davis**

Digitally signed by  
Dariane Davis  
Date: 2023.01.03  
10:36:42 -05'00'

(Signature)

Prepared by:

Elizabeth Biggio

Butler, Fairman, & Seufert, Inc.

**Graphics:**

SITE LOCATION: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: N/A

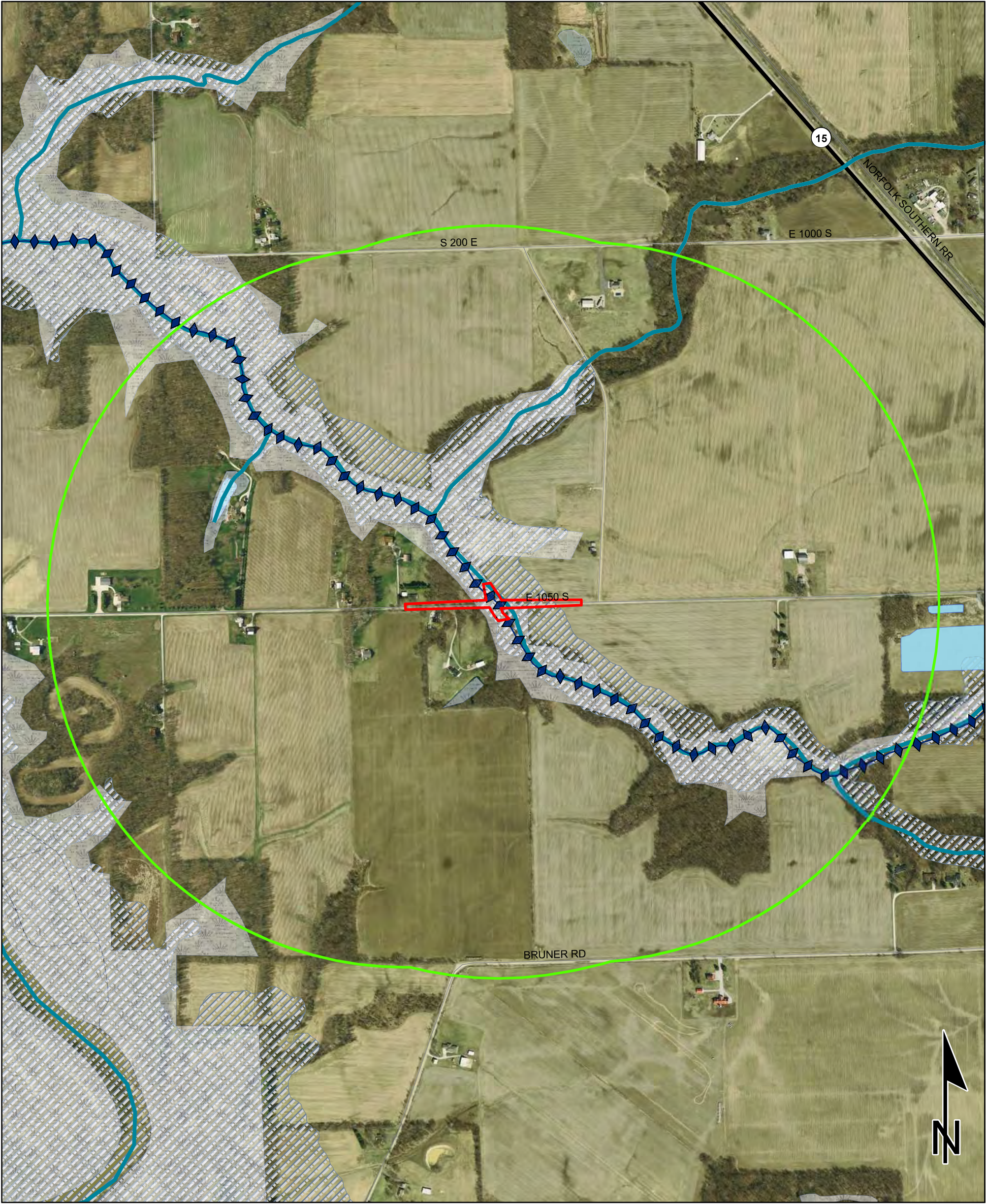
Red Flag Investigation - Infrastructure  
County Road 1050 South over Grant Creek  
Des. No. 2003065, Wabash Co. Bridge 143 Replacement  
Wabash County, Indiana



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.**

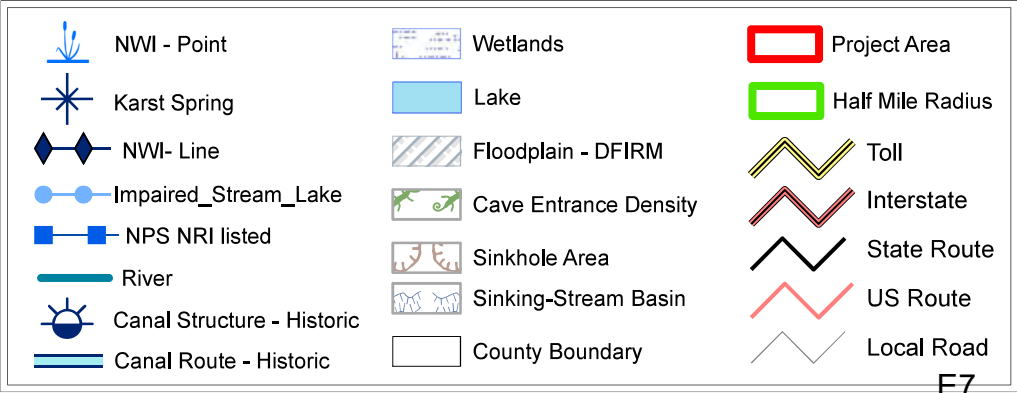
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources  
County Road 1050 South over Grant Creek  
Des. No. 2003065, Wabash Co. Bridge 143 Replacement  
Wabash County, Indiana



Sources:  
**Non Orthophotography**  
**Data** - Obtained from the State of Indiana Geographical Information Office Library  
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This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

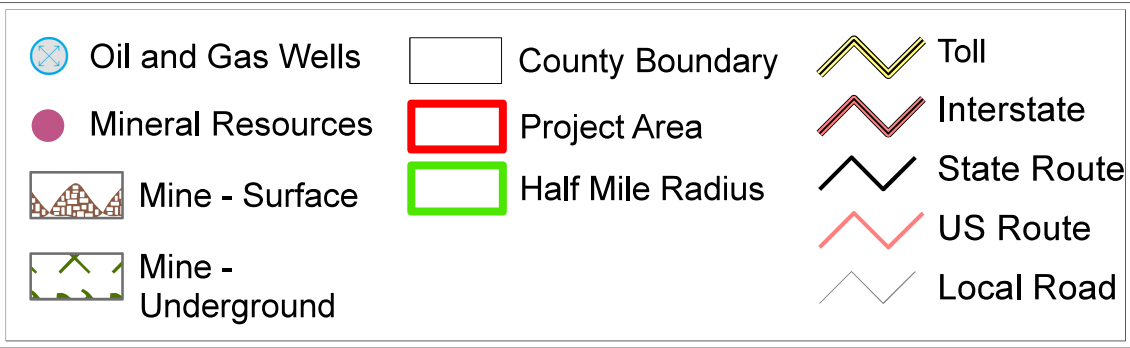


Red Flag Investigation - Mining and Mineral Resources  
County Road 1050 South over Grant Creek  
Des. No. 2003065, Wabash Co. Bridge 143 Replacement  
Wabash County, Indiana



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.



# **Appendix F**

## **Ecological and Water Resources**

**“WATERS OF THE U.S.” DETERMINATION REPORT**  
**Wabash County Bridge 143 over Grant Creek, Wabash County**  
**Bridge Replacement Project**  
**Des. No. 2003065**

Prepared By: Neal Bennett, PWS #2425  
Butler, Fairman & Seufert, Inc.  
[nbennett@bfsengr.com](mailto:nbennett@bfsengr.com)  
May 1, 2023

**Date(s) of Field Investigation**

April 19, 2023

**Project Location**

Section 28, Township 26 North, Range 7 East on the United States Geological Survey (USGS) LaFontaine Indiana Quadrangle Map, within Wabash County, Indiana

LAT. 40.673994; LONG. -85.744228

**Area of Investigation**

The area investigated is located approximately 1.3 miles west of LaFontaine, Indiana. The study area consisted of agricultural ground, roadside slope, and forested areas along Grant Creek at CR 1050. Approximately 2.75 acres was investigated. The entire site was investigated by walking transects and making visual observations of the landscape looking for any visual evidence of wetland characteristics (Attachment 1). Sampling points, where necessary, were taken in all areas mapped as wetlands on the National Wetland Inventory (NWI), where wetland characteristics were observed, and in any potential problem areas. Any drainage feature that displayed a defined channel and ordinary high-water mark were considered potentially jurisdictional streams. Any features that did not meet these criteria were not considered as streams.

**Desktop Reconnaissance**

**Site(s) Background**

Prior to the field investigation, reference materials were consulted to gain information about the site. These include, the USGS LaFontaine, IN quadrangle map was used to determine contours of the site and locate any water bodies in the area, as well as to provide a legal description of the area. The Natural Resources Conservation Service's (NRCS) Web Soil Survey website<sup>1</sup> was consulted to determine if the project area contained any soils listed in either the *Hydric Soils of the United States* manual or the Indiana State list of hydric soils along with a description of characteristics displayed by the mapped soil types of the area (Attachments 3 – 5). The U.S. Fish and Wildlife Service (USFWS) NWI Map was used to find and classify any previously catalogued wetlands in the project area (Attachment 2). The Indiana Department of Natural Resources' (IDNR) floodplain map was consulted to gain an understanding of historic flood locations and frequency that may impact the study area (Attachment 7). The USGS National Hydrologic Dataset was used to find any mapped waterway features in or near the project area (Attachment 6). All this information provided a background for the hydrologic regime of the area.

<sup>1</sup> <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

### **National Wetlands Inventory (NWI) Map**

The following is a list of mapped wetlands located either within or near the proposed project limits (Attachment 2).

- Riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH) waterway known as Grant Creek
- Lacustrine, littoral, unconsolidated bottom, artificially flooded (L2UBK) waterway overlapping Grant Creek which is the backwater effected area of the Mississinewa Reservoir.

### **Soil Map Data**

According to the NRCS Web Soil Survey website<sup>2</sup> for Wabash County, Indiana (Attachments 3-5), the following table summarizes the soil types found in the investigation area, including characteristics such as Flooding Frequency, Drainage Class, Hydric Soil Category, and Hydric Rating.

Soil Unit Name	Symbol	NRCS Flooding Frequency	NRCS Drainage Class	NRCS Hydric Soil Category	SSURGO Hydric Rating
Genesee loam	Ge	Occasional	Well drained	Partially	7%
Hennepin loam	HeG	None	Well drained	Non-Hydric	0
Miami silt loam	MhB2	None	Moderately well drained	Partially	6%

Table 1: Soil Survey Summary Table

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

According to the USGS NHD map, there is one stream/river mapped in the study area (Attachment 6). The stream is Grant Creek, which flows northwest through the study area.

### **USGS 12-digit Hydrologic Unit Code (HUC-12)**

051201030603, Grant Creek – Mississinewa River

### **Attached Documentation**

- Maps of the study area (state, quad, aerial, NWI, floodplain, soil, StreamStats, NHD, photo/data point)
- Photographs of the study area
- Wetland Data Sheets
- Preliminary Jurisdictional Determination (PJD) Form

### **Field Reconnaissance**

The study area limits extend from the end of Bridge 143 approximately 200 feet east and west along CR 1050. At the bridge, the study limits were extended north and south for approximately 150 feet, to investigate the entire forested riparian areas along Grant Creek and to evaluate for the presence of any wetlands or streams. The area was investigated by walking transects west to east and north to south within the study limits for the project and looking for any visual evidence of waterway or wetland characteristics. Any wetland boundaries and sampling point locations were recorded in the field using a handheld Global Positioning System (GPS) unit with

<sup>2</sup> <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

submeter accuracy. Ordinary high-water mark (OHWM) and bankfull measurements were taken when present at a water feature and dominant substrate material was identified by conducting a pebble count. If present, roadside ditches were examined for possible jurisdictional status. Any areas that exhibited wetland characteristics (hydrophytic vegetation, hydrology, and hydric soils) were investigated to determine if the area should be classified as wetland. Field data collection was completed based on the methodologies presented in the 1987 *U.S. Army Corps of Engineers Wetland Delineation Manual* ('87 Manual) and the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Midwest Region Version 2.0* (Regional Supplement). Field methods did not deviate from the standard methods found in the '87 Manual or the Regional Supplement.

A field visit to the project area was conducted on April 19, 2023, to investigate for potential features that may classify as “Waters of the U.S.” or “Waters of the State” within the study limits. Based on the daily rainfall data obtained from the Community Collaborative Rain, Hail, and Snow Network<sup>3</sup>, the project location received 0.12 inches of rainfall in the 48 hours preceding the site visit. Jurisdictional wetland and stream determinations were based on the Pre-2015 “Waters of the U.S.” regulatory guidance as outlined in the Clean Water Act following the *Rapanos v. United States* Supreme Court decision (1986).

### **Waterway(s)**

One (1) mapped waterway was observed within the study area. This waterway is known as Grant Creek and is identified as a perennial USGS blue line stream that flows northwest through the project area, and discharges into Mississinewa River approximately 2.5 miles downstream of the study location. Grant Creek is within the backwater affected area of the Mississinewa River, making it flooded occasionally when the reservoir is allowed to fill to capacity. Grant Creek has a drainage area upstream of the study limits of approximately 8.382 square miles (as calculated using the web-tools on the USGS *Indiana StreamStats* website<sup>4</sup>) (Attachment 8). This waterway falls within the larger Grant Creek – Mississinewa River Watershed identified by the USGS HUC-12 051201030603. Grant Creek is classified as a riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH) waterway. It is of average poor due to the lack of an intact riparian corridor, moderate sinuosity, and extreme bank erosion. Additionally, the stream channel is entrenched. The substrate is primarily gravel and assorted sizes of cobble. The creek has an approximate average 36.5-foot bankfull width and approximate average 2.24-foot bankfull depth. The OHWM depth is approximately 1.5 feet and width is approximately 18.0 feet. All stream measurements were taken at LAT/LONG 40.673860; -85.744168. During the site visit conducted on April 19, 2023, Grant Creek contained flowing water. Grant Creek is determined to be a “Waters of the U.S.” because it is a blue-line feature (jurisdictional stream) with an OHWM.

An unmapped stream feature was observed in the southwest quadrant of Bridge 143. It begins approximately 700 feet southwest of the bridge. It begins in an agriculture field, flows northeast for approximately 400 feet, passes beneath a driveway, then continues approximately 120 before meeting with CR 1050. It then flows east along the southside of CR 1050 for approximately 180 feet before discharging into Grant Creek. This unmapped stream feature is identified as Unnamed Tributary (UNT) to Grant Creek for the purposes of this report. UNT to Grant Creek as a 2.5-foot OHWM width and a 5-inch OHWM depth. The substrate was primarily mud with gravel overlain.

<sup>3</sup> [CoCoRaHS Maps](#)

<sup>4</sup> <https://streamstats.usgs.gov/ss/>

Stream Name	Photo Numbers	Latitude/ Longitude (UTM NAD 83)	OHHM width/depth	USGS ID	Presence of Riffles/Pools	Channel Substrate	Functional Quality	Likely Water of the U.S.	Linear Ft. in Study Area
Grant Creek	2 - 4	40.673860/ -85.744168	18.0 ft. / 1.5 ft.	Perennial (solid blue line)	Yes	Gravel/ Cobble	Poor	Yes	300 ft.
UNT to Grant Creek	9 - 10	40.673922/ -85.744384	2.5 ft. / 0.4 ft.	Not Mapped	No	Mud/Gravel	Poor	Yes	300 ft.

Table 2: Stream Survey Summary Table

### **Wildlife Evidence and Concerns**

Raccoon and deer tracks were observed beneath Bridge 143 during the site investigation. Therefore, there is adequate opening for wildlife to pass beneath the bridge. Some stone revetment is present around the abutments. One abandoned bird nest was observed. No other evidence of birds or bats was observed using the bridge (Attachment 12, photo #5).

### **Wetlands**

One area was identified as potential wetlands during the field investigation. A sampling point was taken in this area and was evaluated for all three criteria to be considered a wetland as described in the '87 *Manual* and as currently applied in the *Midwest Regional Supplement* manual.

Sampling Point 1 was taken in a low contour area that indicated the potential for frequent or prolonged hydrology within the floodplain of Grant Creek. The area is mapped as Genesee loam, which has a low hydric inclusion rating of 7%. The soil profile matched the description for Genesee loam and did not contain any hydric soil field indicators. The area did not contain an overstory or understory. The dominant species was *Phalaris arundinacea*. This community is hydrophytic dominant. The soil was loamy and appeared well-drained. No evidence of frequent or prolonged hydrology was observed as the floodplain surface is approximately 2.5 feet above the water surface elevation of Grant Creek under normal conditions. This indicates that groundwater is found at least 30 inches below the surface. As a result, Sampling Point 1 is a non-wetland data point (Attachments 17 – 18).

Data Point ID	Photo #	Latitude/ Longitude (UTM NAD 83)	Hydrophytic Vegetation Present	Hydric Soil Present	Wetland Hydrology Present	Is the Sampled Area within a Wetland?
1	11 - 13	40.673925 / -85.744134	Yes	No	No	No

Table 3: Wetland Data Summary Table

### **Floodplains**

The project is located within the regulated floodplain (Zone A) along Grant Creek ([INdiana Floodplain Information Portal](#)).

### **Open Water**

No open water areas were observed in the investigated area.

### **Roadside Ditches (RSDs)**

No roadside ditches were observed within or adjacent to the project area.

### **Conclusion**

A field investigation was conducted on April 19, 2023, by BF&S to evaluate the presence of Waters of the U.S. for the replacement of Bridge 143 carrying CR 1050 over Grant Creek in Wabash County, Indiana. Desktop reconnaissance and field observations identified two streams, Grant Creek and UNT to Grant Creek, within the study area. No wetlands were observed.

Based on its contribution of flow into the Mississinewa River, the blue-line perennial stream located approximately 2.5 miles downstream, Grant Creek should be considered "Waters of the U.S." Grant Creek and the UNT to Grant Creek are the only jurisdictional features identified during the investigation.

These waterways are likely *Waters of the U.S.* Every effort should be taken to avoid and minimize impacts to these features. If impacts are necessary, then mitigation may be required. INDOT Environmental Services Division should be contacted immediately if impacts occur. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgement based on the guidelines set forth by the 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 judgement in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instruction Guidebook*, and other appropriate agency guidelines.



May 1, 2023  
Neal Bennett, PWS  
Ecologist/Director of Environmental Services  
[nbennett@bfsengr.com](mailto:nbennett@bfsengr.com)

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# Wabash County Bridge 143

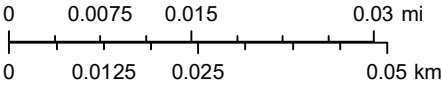


April 19, 2023

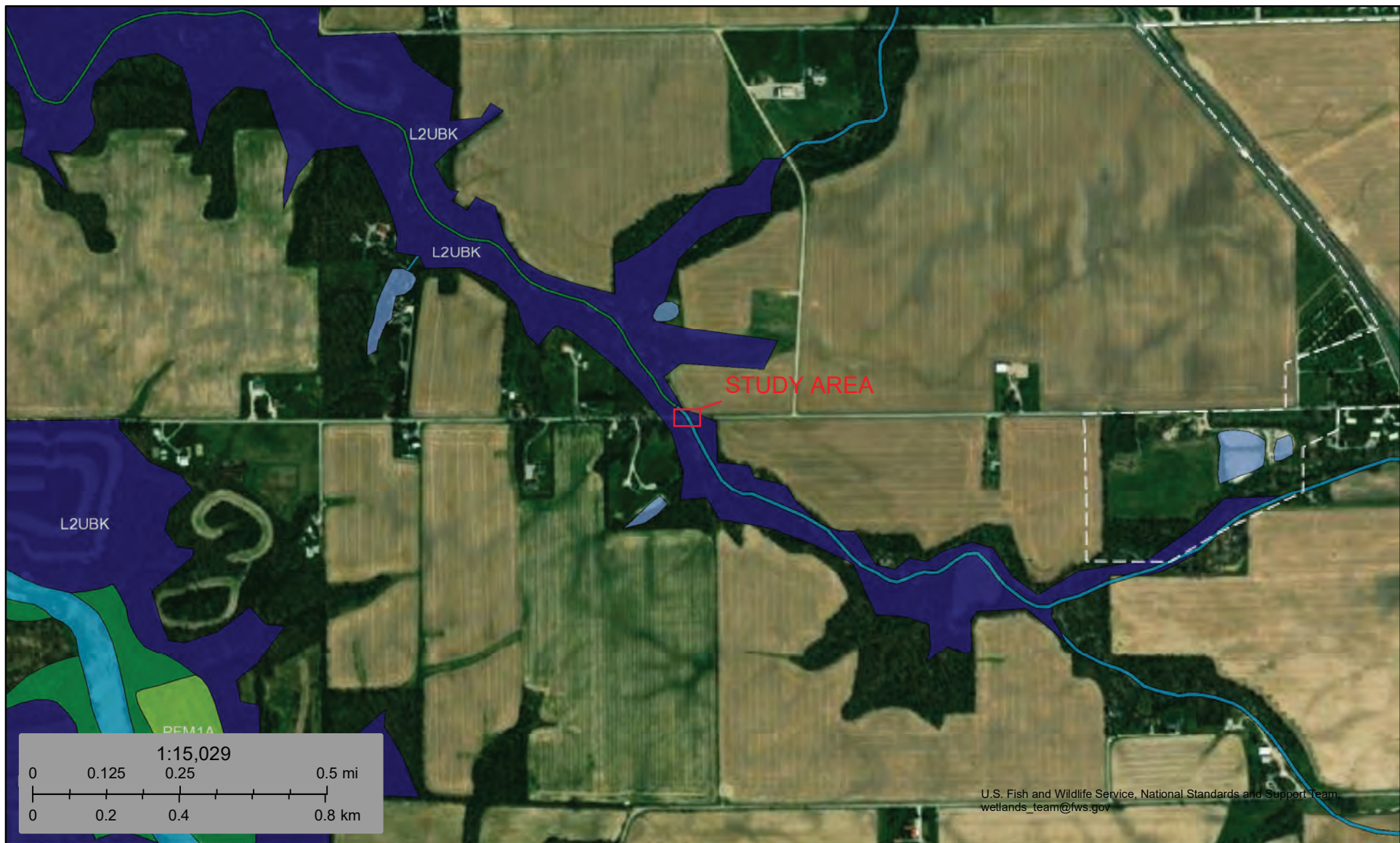
1:1,000

 2016 Orthophotography - Placeholder

 Sampling Point 1



Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),  
Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data  
Portal  
Indiana Office of Information Technology, Indiana University Spatial Data  
Portal, UITS, Woolpert Inc.,



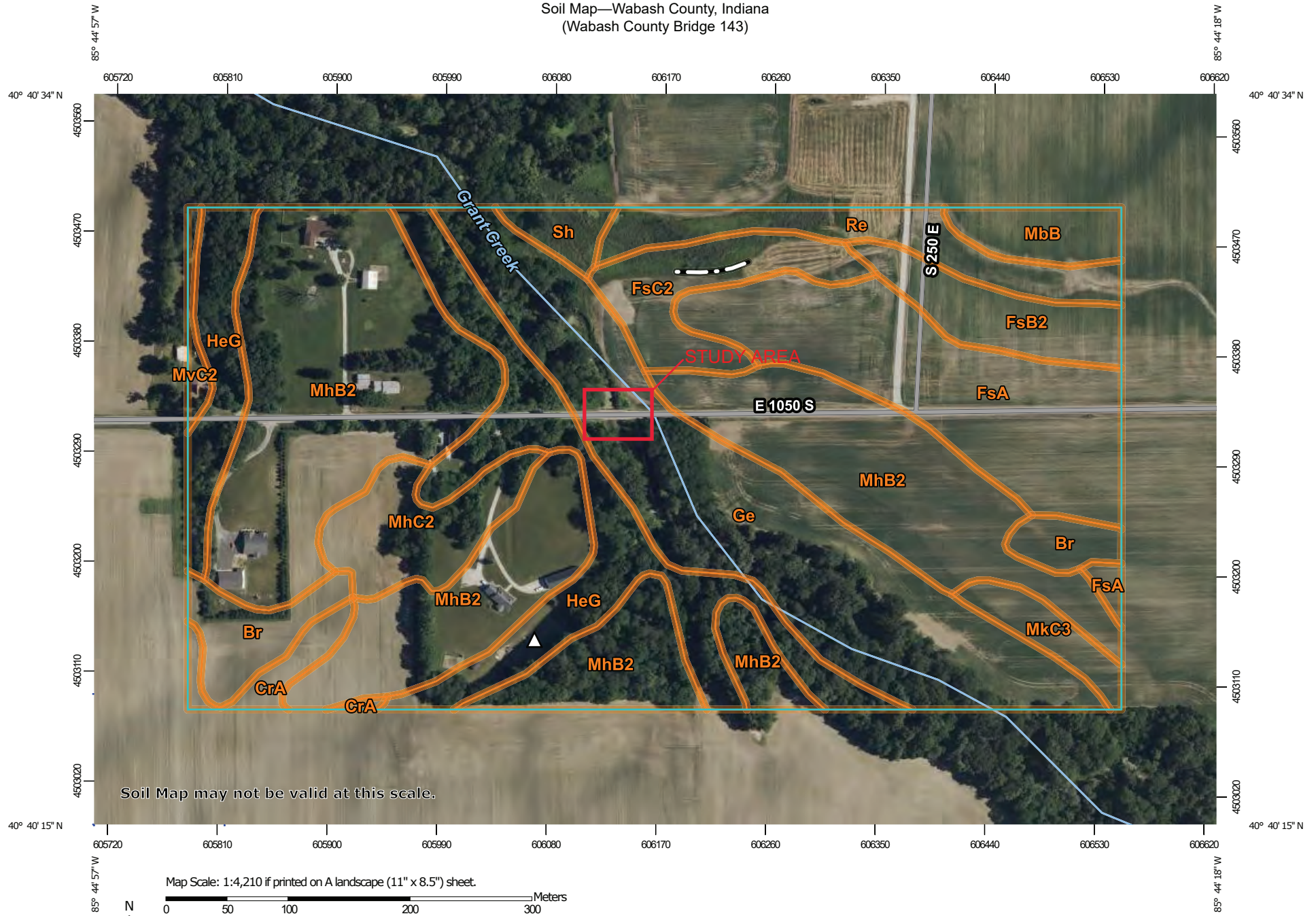
April 19, 2023

Wetlands

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

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.

Soil Map—Wabash County, Indiana  
(Wabash County Bridge 143)



4/19/2023

Page 1 of 3



Natural Resources  
Conservation Service


Web Soil Survey  
National Cooperative Soil Survey

F10

Soil Map—Wabash County, Indiana  
(Wabash County Bridge 143)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Wabash County, Indiana

Survey Area Data: Version 27, Sep 2, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 16, 2022—Jun 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

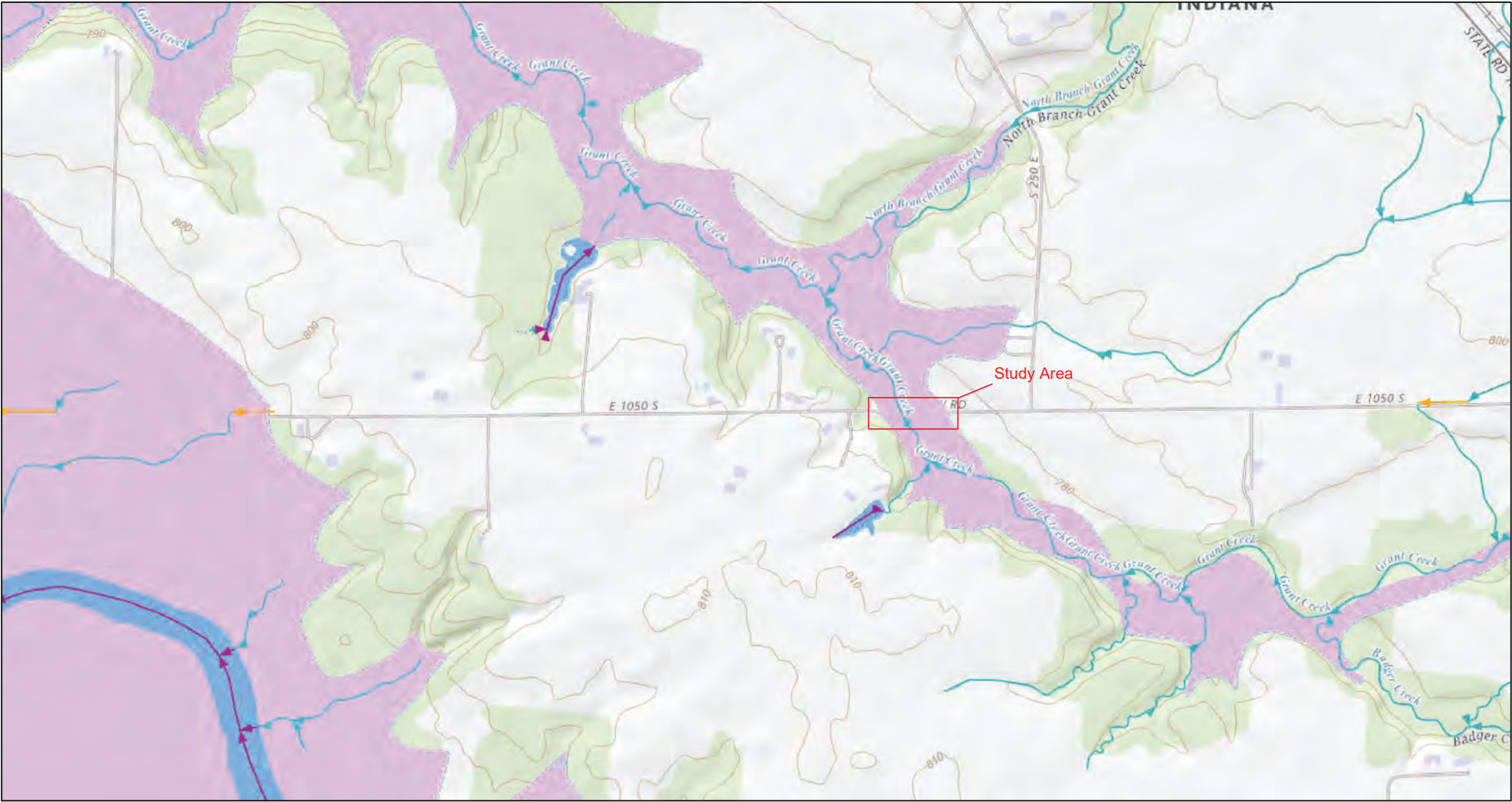
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Br	Brookston loam	2.6	3.3%
CrA	Crosby silt loam, 0 to 3 percent slopes	1.0	1.3%
FsA	Fox loam, till plain, 0 to 2 percent slopes	8.4	10.7%
FsB2	Fox loam, 2 to 6 percent slopes, eroded	2.5	3.2%
FsC2	Fox loam, till plain, 6 to 12 percent slopes, eroded	3.0	3.9%
Ge	Genesee loam, 0 to 2 percent slopes, occasionally flooded	13.1	16.7%
HeG	Hennepin loam, 25 to 50 percent slopes	9.8	12.6%
MbB	Martinsville loam, 2 to 6 percent slopes	1.4	1.8%
MhB2	Miami silt loam, 2 to 6 percent slopes, eroded	27.7	35.5%
MhC2	Miami silt loam, 6 to 12 percent slopes, eroded	3.0	3.8%
MkC3	Miami clay loam, 6 to 12 percent slopes, severely eroded	1.2	1.5%
MvC2	Morley silt loam, 6 to 12 percent slopes, eroded	0.4	0.6%
Re	Rensselaer loam, 0 to 1 percent slopes	3.2	4.0%
Sh	Shoals silt loam, 0 to 2 percent slopes, occasionally flooded	0.8	1.0%
<b>Totals for Area of Interest</b>		<b>78.1</b>	<b>100.0%</b>

4/19/2023

Page 3 of 3



# The National Map Advanced Viewer



4/19/2023, 9:21:18 AM

Waterbody - Large Scale

Estuary

Ice Mass

Lake Pond

Playa

Reservoir

Swamp Marsh

Area - Large Scale

Area of Complex Channels

Area to be Submerged

BayInlet

Bridge

CanalDitch

DamWeir

Flume

Foreshore

Hazard Zone

Inundation Area

Lock Chamber

Rapids

SeaOcean

Special Use Zone

Spillway

StreamRiver

Submerged Stream

Wash

Water IntakeOutflow

Flowline - Large Scale

Perennial

Intermittent

Ephemeral

Artificial Path

Canal Ditch

Coastline

Connector

Pipeline

Underground Conduit

Flow Direction

Connector

CanalDitch

Underground Conduit

StreamRiver

StreamRiver - Perennial

StreamRiver - Intermittent

StreamRiver - Ephemeral

Pipeline

Artificial Path

Line - Large Scale

Line

Tunnel

Point Event

Point

Dam/Weir

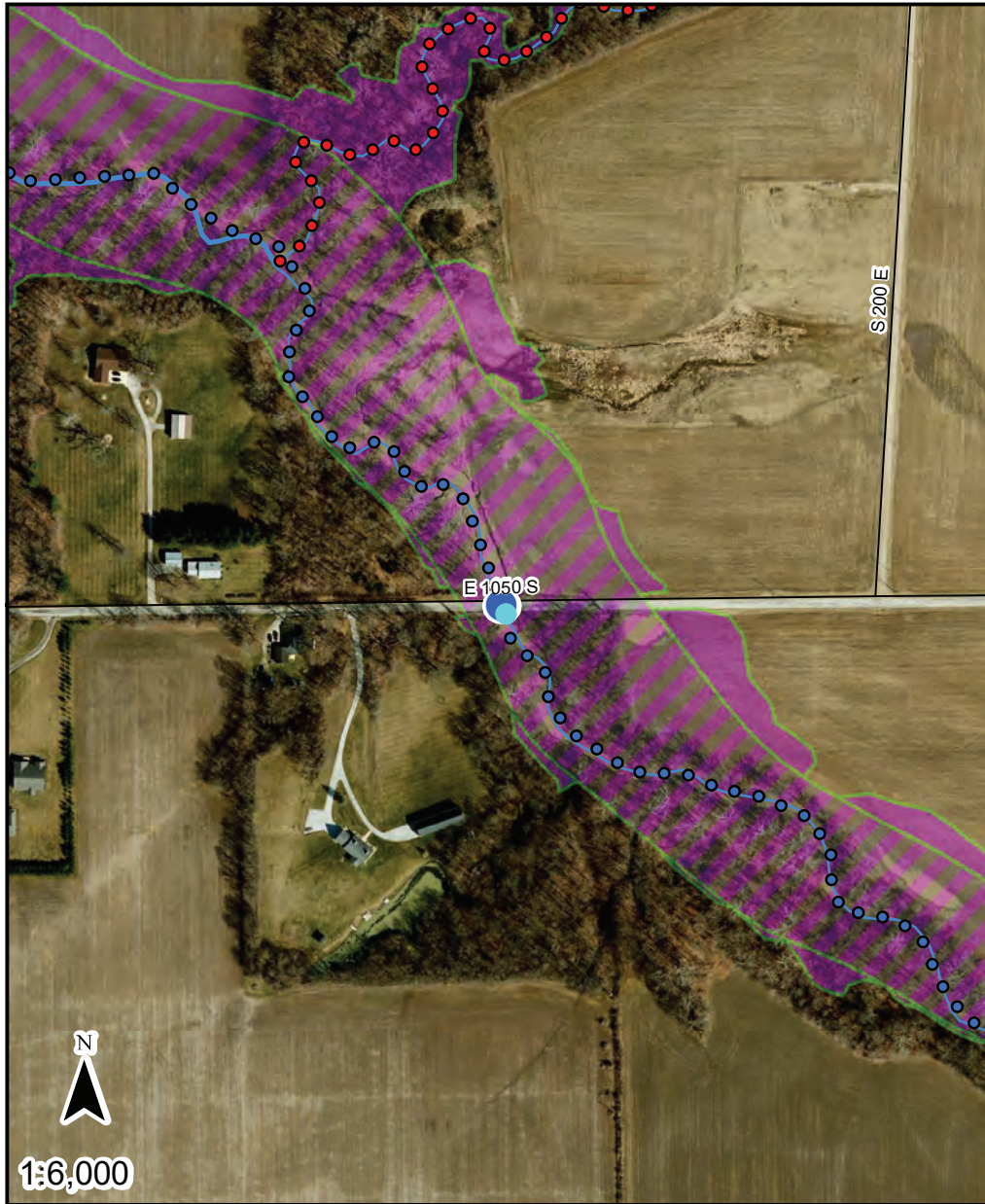
Other

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 km

USGS TNM - National Hydrography Dataset. Data Refreshed April, 2023., USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National

F13  
USGS  
2021 USGS



- Point of Interest
  - Base Flood Elevation Point
- Flood Elevation Points**
- STUDIED STREAM
  - JURISDICTIONAL UNSTUDIED STREAM

**Rivers and Streams at  
least 1 square mile**

**Drainage Area (sq. miles)**

- 1 - 10
  - 10 - 100
- DNR Approximate Floodway
- DNR Approximate Fringe

Point of Interest Coordinates  
(WGS84)

Long: **-85.7442706587**

Lat: **40.6739818632**

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

County: **Wabash**

Approximate Ground Elevation: **768.1 feet (NAVD88)**

Stream Name:  
**Grant Creek**

Base Flood Elevation: **777.7 feet (NAVD88)**

Drainage Area: **Not available**

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: **Mike Howard, Plan Director**

Community Jurisdiction: **Wabash County, County proper**

Phone: **(260) 563-0661**

Email: **plandirector@wabashcounty.in.gov**

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

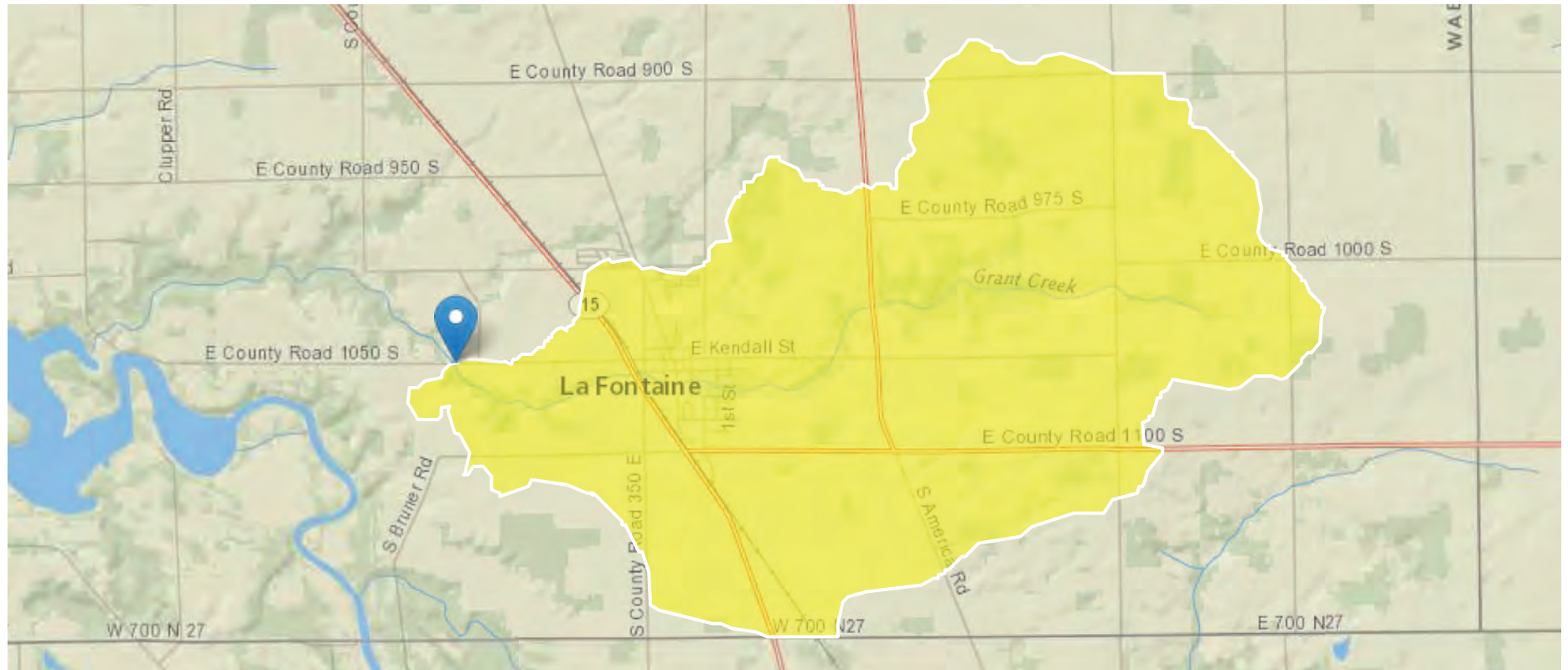
# StreamStats Report

Region ID: IN

Workspace ID: IN20230501173404472000

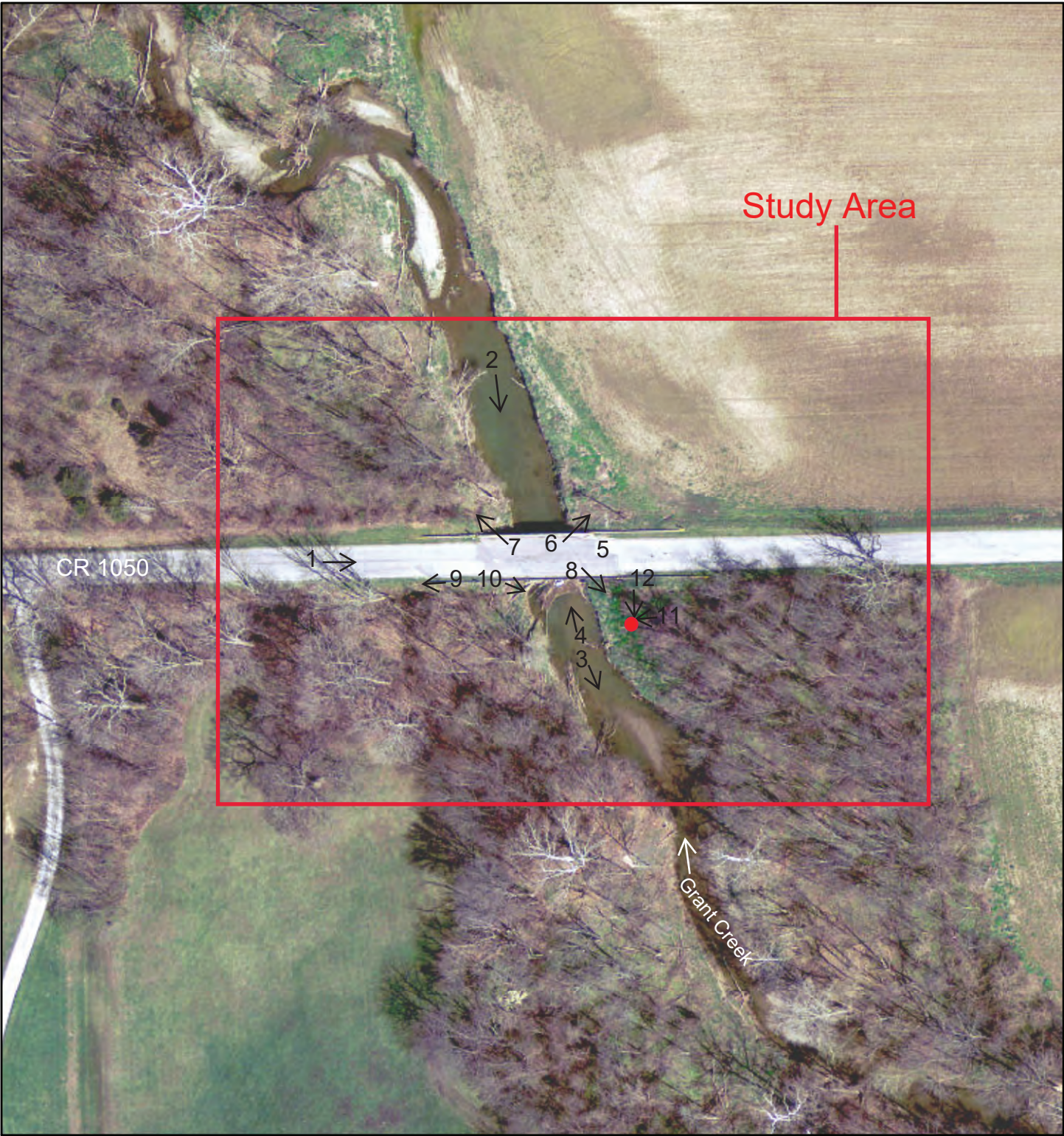
Clicked Point (Latitude, Longitude): 40.67397, -85.74383

Time: 2023-05-01 13:34:27 -0400



+ Collapse All

# Wabash County Bridge 143

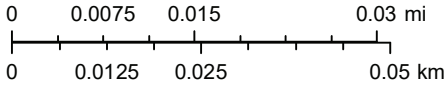


April 19, 2023

1:1,000

 2016 Orthophotography - Placeholder

 Sampling Point 1



Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB), Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data Portal  
Indiana Office of Information Technology, Indiana University Spatial Data Portal, UITS, Woolpert Inc.,



1) Overview of project location, looking east along CR 1050



2) Looking south (upstream) at Grant Creek passing beneath Bridge 143



3) Looking southeast (upstream) at Grant Creek from the south side of Bridge 143



4) Looking north at the sandbar present along Grant Creek upstream of Bridge 143



5) Looking at animal tracks and revetment present beneath the east span of Bridge 143



6) Looking northeast from Bridge 143 at the northeast quadrant of the bridge.



7) Looking northwest from Bridge 143 at the northwest quadrant of the bridge.



8) Looking southeast from Bridge 143 at the southeast quadrant of the bridge



9) Looking west (upstream) at UNT to Grant Creek



10) Looking southeast (downstream) at UNT to Grant Creek



11) Looking west at Sampling Point 1 in the SE quadrant of Bridge 143



12) Looking south at Sampling Point 1 in the SE quadrant of Bridge 143



13) Looking at the soil sample taken at Sampling Point 1

# WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site Wabash County Bridge 143 City/County: LaFontaine/Wabash County Sampling Date: 4/19/2023  
 Applicant/Owner: Wabash County State: IN Sampling Point: 1A  
 Investigator(s): Neal Bennett Section, Township, Range: Sec. 28, Twp. 26N, Range 7E  
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave  
 Slope (%): 1% Lat: 40.673925 Long: -85.744134 Datum: UTM 16N  
 Soil Map Unit Name Genesee loam VWI Classification: Non-wetland

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation           , soil           , or hydrology            significantly disturbed?

Are "normal circumstances"

Are vegetation           , soil           , or hydrology            naturally problematic?

present? Yes

## SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	<u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>N</u> If yes, optional wetland site ID: <u>                    </u>
Hydric soil present?	<u>N</u>	
Indicators of wetland hydrology present?	<u>N</u>	

Remarks: (Explain alternative procedures here or in a separate report.)

Sampling Point 1A was advanced in the southwest quadrant approximately 30 feet from Bridge 143 in a low floodplain contour.

## VEGETATION -- Use scientific names of plants.

Tree Stratum	(Plot size: <u>30'</u> radius )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet</b> Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across all Strata: <u>1</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)
1					
2					
3					
4					
5					
		<u>0</u>	= Total Cover		<b>Prevalence Index Worksheet</b> Total % Cover of: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>92</u> x 2 = <u>184</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column totals <u>97</u> (A) <u>199</u> (B) Prevalence Index = B/A = <u>2.05</u>
Sapling/Shrub stratum	(Plot size: <u>15'</u> radius )				
1					
2					
3					
4					
5					
		<u>0</u>	= Total Cover		
Herb stratum	(Plot size: <u>5'</u> radius )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Rapid test for hydrophytic vegetation <u>X</u> Dominance test is >50% <u>X</u> Prevalence index is ≤3.0* <u>      </u> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
1	<i>Phalaris arundinacea</i>	80	Y	FACW	
2	<i>Alliaria petiolata</i>	5	N	FAC	
3	<i>Laportea canadensis</i>	5	N	FACW	
4	<i>Rudbeckia laciniata</i>	5	N	FACW	
5	<i>Conium maculatum</i>	2	N	FACW	
6					
7					
8					
9					
		<u>97</u>	= Total Cover		
Woody vine stratum	(Plot size: <u>30'</u> radius )				<b>Hydrophytic vegetation present?</b> <u>Y</u>
1					
2					
		<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet)

## SOIL

Sampling Point: 1A

## 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*	Loc**		
0-18	10YR 4/2	100					Loam	<1 inch ribbon test

\*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. \*\*Location: PL = Pore Lining, M = Matrix

## Hydric Soil Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Histisol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)   |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)      |   |

## Indicators for Problematic Hydric Soils:

- |  |
|--|
| <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)   |
| <input type="checkbox"/> Dark Surface (S7) (LRR K, L)              |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12)          |
| <input type="checkbox"/> Other (explain in remarks)                |

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

## Restrictive Layer (if observed):

 Type: n/a  
 Depth (inches):

Hydric soil present? N

## Remarks:

Well drained alluvial soils, lack of redox features.

## HYDROLOGY

## Wetland Hydrology Indicators:

## Primary Indicators (minimum of one is required; check all that apply)

- |  |   |
|--|---|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Aquatic Fauna (B13)                        |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> True Aquatic Plants (B14)                  |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 |
| <input type="checkbox"/> Water Marks (B1)                          | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Sediment Deposits (B2)                    | <input type="checkbox"/> Presence of Reduced Iron (C4)              |
| <input type="checkbox"/> Drift Deposits (B3)                       | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Algal Mat or Crust (B4)                   | <input type="checkbox"/> Thin Muck Surface (C7)                     |
| <input type="checkbox"/> Iron Deposits (B5)                        | <input type="checkbox"/> Gauge or Well Data (D9)                    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                 |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   |   |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |   |

## Secondary Indicators (minimum of two required)

- |  |
|--|
| <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 type="checkbox"/> Geomorphic Position (D2)                  |
| <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |

## Field Observations:

Surface water present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	
Water table present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	
Saturation present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	

Indicators of wetland hydrology present? N

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

## Remarks:

Floodplain surface approximately 2.5 feet above water elevation in Grant Creek. Heavy precipitation the previous day, no evidence of ponding or saturation.

# **Appendix G**

## **Public Involvement**

# Sample Notice of Survey

*April 13, 2022*

## *NOTICE OF SURVEY*

*RE: Topographic Survey for the Replacement of Bridge 143 Carrying C.R. 1050  
South over Grant Creek, 0.95 miles West of S.R. 15, Des. No. 2003065,  
Wabash County, Indiana*

*Dear Property Owner(s):*

*The Wabash County Board of Commissioners has selected Butler, Fairman and Seufert, Inc., to survey and design the referenced project. Courthouse records show that you are a property owner within the limits of the area where data will be collected for the project survey. It may be necessary for our employees to enter your property to complete this work. If you have sold this property, or it is occupied by someone else, please let us know the name and address of the new owner or current occupant so we can contact them about the survey.*

*At this stage, we generally do not know what effect, if any, our project can eventually have on your property. If we determine later that your property is involved, you will be contacted with additional information.*

*The survey work will include mapping the location of features such as trees, buildings, fences and drives, and obtaining ground elevations. The survey is needed for the proper planning and design of this bridge project. Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If problems do occur, please contact our field crew or contact me at the telephone number or address shown above or the included e-mail address.*

*Sincerely,*

*Mark W. Neal, P.S.  
mneal@bfsengr.com*

# **Appendix H**

## **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
Performance Measure Impacted: Pavement Condition																	
Location: US 24 US 24 @ Wabash St, 1.15 Miles E of SR 15 and US 24 From SR 115 to SR 13																	
Comments:Include DES 2000025, 2001847																	
Indiana Department of Transportation	43285 / 2001847	A 01	US 24	HMA Overlay, Preventive Maintenance	Fort Wayne	4.455	NHPP	\$2,254,162.00	Safety Consulting	PE	\$160,000.00	\$40,000.00	\$200,000.00				
Performance Measure Impacted: Pavement Condition																	
Location: US 24 US 24 @ Wabash St, 1.15 Miles E of SR 15 (2000025), US 24 From SR 115 to SR 13 (2001847-HMA)																	
Comments:Add PE \$200,000 FY2024. Des including 2000025 and 2001847.																	
Wabash County	43610 / 2003065	Init.	IR 1403	Bridge Replacement	Fort Wayne	.2	STBG	\$2,210,000.00	Local Bridge Program	CN	\$1,515,000.00	\$0.00			\$1,515,000.00		
									Local Funds	CN	\$0.00	\$379,000.00			\$379,000.00		
									Local Funds	RW	\$0.00	\$20,000.00	\$20,000.00				
									Local Bridge Program	RW	\$80,000.00	\$0.00	\$80,000.00				
Performance Measure Impacted: Bridge Condition																	
Location: Bridge #143 on CR E 1050 S, over Grant Creek																	
Comments:Include DES 2003065																	
Wabash County	44289 / 2101741	Init.	IR 1403	Bridge Rehabilitation Or Repair	Fort Wayne	.125	STBG	\$3,306,000.00	Local Funds	CN	\$0.00	\$576,000.00			\$24,000.00	\$552,000.00	
									Local Bridge Program	CN	\$2,304,000.00	\$0.00			\$96,000.00	\$2,208,000.00	
									Local Funds	RW	\$0.00	\$8,000.00			\$8,000.00		
									Local Bridge Program	RW	\$33,000.00	\$0.00			\$33,000.00		
Performance Measure Impacted: Bridge Condition																	
Location: Bridge #96; On East Hanging Rock Road over the Salamonie River																	
Comments:Include DES 2101741																	
Wabash County	44290 / 2101775	Init.	IR 8827	HMA Overlay Minor Structural	Fort Wayne	7.81	STBG	\$3,725,000.00	Group IV Program	RW	\$8,000.00	\$0.00		\$8,000.00			
									Local Funds	RW	\$0.00	\$2,000.00		\$2,000.00			
									Group IV Program	CN	\$2,812,000.00	\$0.00				\$2,812,000.00	
									Local Funds	CN	\$0.00	\$703,000.00				\$703,000.00	

\*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 I**

## **Additional Studies**

## Section 6(f) Properties in Wabash County

Source: Land and Water Conservation Fund website (<https://lwcf.tplgis.org/mappast/>)

Project Number	Sponsor	Property
1800266	Roann Park Board	Roann Park
1800290	Wabash Park Board	Wabash City Park (Wabash City Park Log Cabin)
1800291	Wabash Park Board	Charley Creek Park
1800304	IDNR	Laketon Bog
1800363	IDNR	Mississinewa Reservoir
1800363	IDNR	Salamonie Reservoir
1800378	IDNR	Mississinewa Reservoir
1800449	IDNR	Red Bridge SRA

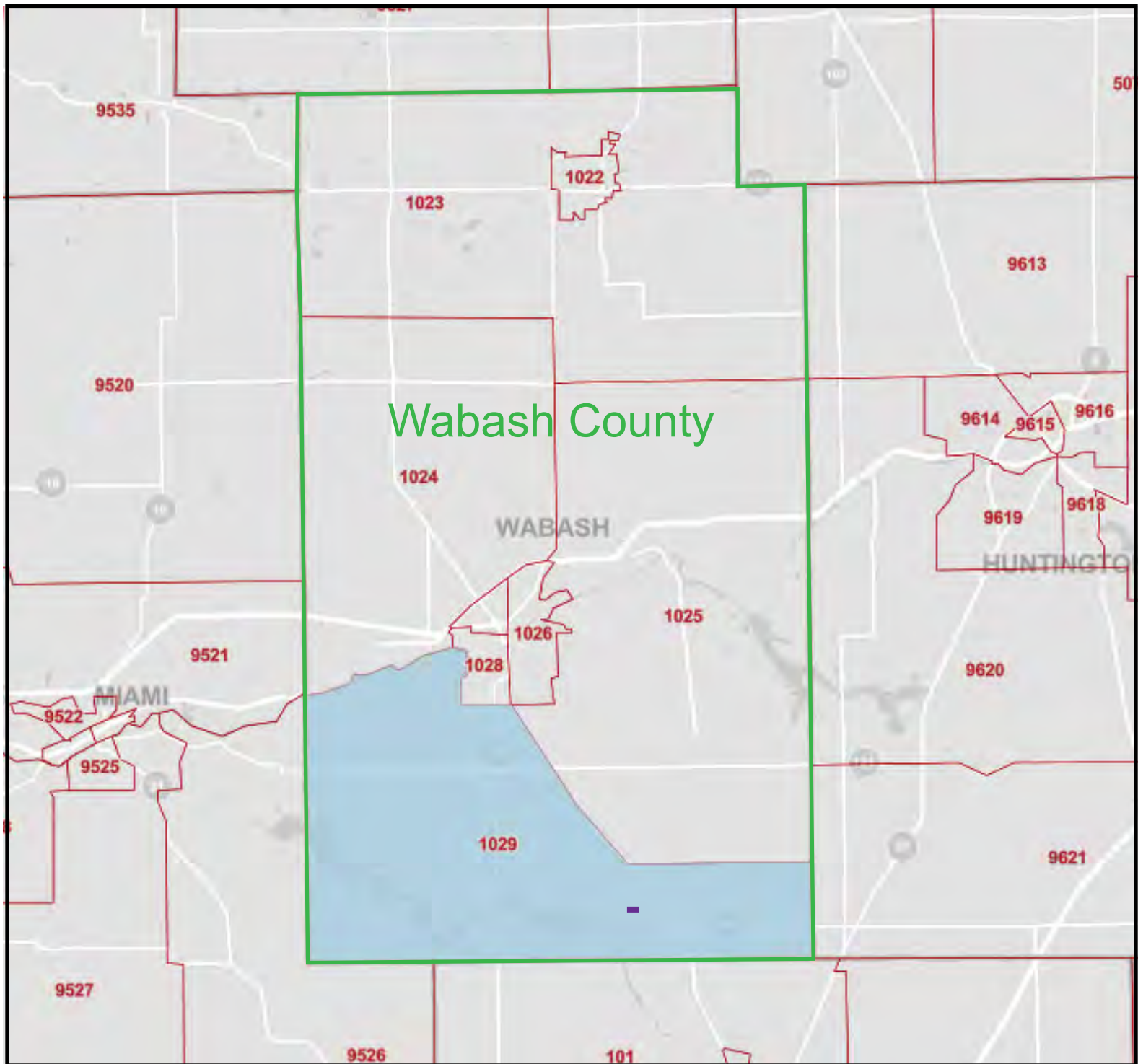
Environmental Justice Data Analysis



Des. No. 2003065: Wabash County Bridge No. 143

Source: U.S. Census Bureau 2021 ACS 5-year Estimates

		COC	AC
		Wabash County, Indiana	Census Tract 1029 Wabash County, Indiana
B17001	<b>LOW-INCOME</b>		
	Population for whom poverty status is determined: Total	29,222	3,304
	Income in the past 12 months below poverty level	3,616	424
	<b>Percent Low-income</b>	<b>12.4%</b>	<b>12.8%</b>
	<b>125 Percent of COC</b>	<b>15.5%</b>	<b>AC &lt;125% COC</b>
	<b>Potential Population of EJ Concern?</b>		<b>No</b>
B03002	<b>MINORITY</b>		
	Total population: Total	31,120	3,421
	Total population: Not Hispanic or Latino	30,273	3,389
	Total population: Not Hispanic or Latino; White alone	29,121	3,274
	Total population: Not Hispanic or Latino; Black or African American alone	314	12
	Total population: Not Hispanic or Latino; American Indian and Alaska Native alone	212	0
	Total population: Not Hispanic or Latino; Asian alone	161	26
	Total population: Not Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	13	0
	Total population: Not Hispanic or Latino; Some other race alone	72	53
	Total population: Not Hispanic or Latino; Two or more races	380	24
	Total population: Hispanic or Latino	847	32
	Total population: Hispanic or Latino; White alone	412	21
	Total population: Hispanic or Latino; Black or African American alone	21	0
	Total population: Hispanic or Latino; American Indian and Alaska Native alone	15	0
	Total population: Hispanic or Latino; Asian alone	0	0
	Total population: Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	0	0
	Total population: Hispanic or Latino; Some other race alone	341	6
	Total population: Hispanic or Latino; Two or more races	58	5
	<b>Number Non-white/minority</b>	<b>1,999</b>	<b>147</b>
	<b>Percent Non-white/Minority</b>	<b>6.4%</b>	<b>4.3%</b>
	<b>125 Percent of COC</b>	<b>8.0%</b>	<b>AC &lt;125% COC</b>
	<b>Potential Population of EJ Concern?</b>		<b>No</b>

# Environmental Justice Community Map



-  Community of Comparison  
 Affected Community  
 Project Area

**Wabash County Bridge 143**  
**Wabash County, Indiana**  
**Des No. 2003065**

# HISPANIC OR LATINO ORIGIN BY RACE

Note: This is a modified view of the original table produced by the U.S. Census Bureau. This download or printed version may have missing information from the original table.

## Wabash County, Indiana

## Census Tract 1029, Wabash County, Indiana

Label	Estimate	Margin of Error	Estimate	Margin of Error
▼ Total:	31,120	*****	3,421	±317
▼ Not Hispanic or Latino:	30,273	*****	3,389	±317
White alone	29,121	±144	3,274	±328
Black or African American alone	314	±51	12	±13
American Indian and Alaska Native alone	212	±71	0	±12
Asian alone	161	±48	26	±33
Native Hawaiian and Other Pacific Islander alone	13	±19	0	±12
Some other race alone	72	±77	53	±71
> Two or more races:	380	±148	24	±23
▼ Hispanic or Latino:	847	*****	32	±26
White alone	412	±102	21	±23
Black or African American alone	21	±26	0	±12
American Indian and Alaska Native alone	15	±23	0	±12
Asian alone	0	±26	0	±12
Native Hawaiian and Other Pacific Islander alone	0	±26	0	±12
Some other race alone	341	±110	6	±14
> Two or more races:	58	±66	5	±7

## Table Notes

Subtopic: Hispanic or Latino Origin by Race

# HISPANIC OR LATINO ORIGIN BY RACE

**Universe:** Total population

**Year:** 2021

**Estimates:** 5-Year

**Table ID:** B03002

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Source: U.S. Census Bureau, 2017-2021 American Community Survey 5-Year Estimates

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.

The Hispanic origin and race codes were updated in 2020. For more information on the Hispanic origin and race code changes, please visit the American Community Survey Technical Documentation website.

The 2017-2021 American Community Survey (ACS) data generally reflect the March 2020 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Explanation of Symbols:

-

The estimate could not be computed because there were an insufficient number of sample observations. For a ratio of medians estimate, one or both of the median estimates falls in the lowest interval or highest interval of an open-ended distribution. For a 5-year median estimate, the margin of error associated with a median was larger than the median itself.

N

The estimate or margin of error cannot be displayed because there were an insufficient number of sample cases in the selected geographic area.

(X)

The estimate or margin of error is not applicable or not available.

median-

The median falls in the lowest interval of an open-ended distribution (for example "2,500-")

median+

The median falls in the highest interval of an open-ended distribution (for example "250,000+").

\*\*

The margin of error could not be computed because there were an insufficient number of sample observations.

\*\*\*

The margin of error could not be computed because the median falls in the lowest interval or highest interval of an open-ended distribution.

\*\*\*\*\*

A margin of error is not appropriate because the corresponding estimate is controlled to an independent population or housing estimate. Effectively, the corresponding estimate has no sampling error and the margin of error may be treated as zero.



POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

Note: This is a modified view of the original table produced by the U.S. Census Bureau. This download or printed version may have missing information from the original table.

Wabash County, Indiana		Census Tract 1029, Wabash County, Indiana	
Label	Estimate	Margin of Error	Estimate
▼ Total:	29,222	±332	3,304
▼ Income in the past 12 months below poverty level:	3,616	±601	424
➤ Male:	1,537	±357	177
➤ Female:	2,079	±372	247
▼ Income in the past 12 months at or above poverty level:	25,606	±711	2,880
➤ Male:	12,923	±402	1,415
➤ Female:	12,683	±475	1,465

Table Notes

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

Survey/Program: American Community Survey  
Universe: Population for whom poverty status is determined  
Year: 2021  
Estimates: 5-Year

Table ID: B17001

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Source: U.S. Census Bureau, 2017-2021 American Community Survey 5-Year Estimates

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.

The 2017-2021 American Community Survey (ACS) data generally reflect the March 2020 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Explanation of Symbols:

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The estimate could not be computed because there were an insufficient number of sample observations. For a ratio of medians estimate, one or both of the median estimates falls in the lowest interval or highest interval of an open-ended distribution. For a 5-year median estimate, the margin of error associated with a median was larger than the median itself.

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The estimate or margin of error cannot be displayed because there were an insufficient number of sample cases in the selected geographic area.

(X)

The estimate or margin of error is not applicable or not available.

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The median falls in the lowest interval of an open-ended distribution (for example "2,500-")

median+

The median falls in the highest interval of an open-ended distribution (for example "250,000+").

\*\*

The margin of error could not be computed because there were an insufficient number of sample observations.

\*\*\*

The margin of error could not be computed because the median falls in the lowest interval or highest interval of an open-ended distribution.

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A margin of error is not appropriate because the corresponding estimate is controlled to an independent population or housing estimate. Effectively, the corresponding estimate has no sampling error and the margin of error may be treated as zero.

# Bridge Inspection Report

85-00143  
CR 1050 S  
over  
GRANT CREEK



Inspection Date: 05/17/2022

Inspected By: Jason Petersen

Inspection Type(s): Routine

Inspector: Jason Petersen  
Inspection Date: 05/17/2022

Asset Name: 85-00143  
Facility Carried: CR 1050 S

### Bridge Inspection Report

WEARING SURFACE PATCHED, SPALLED, AND UNEVEN, CRACKS OVER PIERS, NUMEROUS LONGITUDINAL AND TRANSVERSE CRACKS, EXPOSED TOP OF BEAM AT NORTHEAST CORNER SPALLED. TRANSVERSE CRACKS, MINOR SPALLS WITH EXPOSED STEEL IN BOTTOM OF DECK, NO MAIN REINFORCING BARS EXPOSED, SEEPAGE BETWEEN BEAMS WITH EFFLORESCENCE. TRANSVERSE CRACKS, MINOR SPALLS WITH EXPOSED STEEL IN BOTTOM OF DECK, NO MAIN REINFORCING BARS EXPOSED, SEEPAGE BETWEEN BEAMS WITH EFFLORESCENCE. BOTH END BENTS UNDERPINNED WITH CONCRETE AND SHEET PILES, PIER 2 WITH MINOR EXPOSED STEEL, COLUMNS 3 AND 4 AT PIER 3 WITH LARGE SPALLS AT WATERLINE. MINOR EROSION, SILT BUILDUP IN EAST SPAN.

RECOMMEND REPLACING STRUCTURE IN 2026 DUE TO ADVANCING DETERIORATION.

Inspector: Jason Petersen  
Inspection Date: 05/17/2022

Asset Name: 85-00143  
Facility Carried: CR 1050 S

### Bridge Inspection Report

#### IDENTIFICATION

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	0
(8) STRUCTURE:	8500465	(13A) INVENTORY ROUTE:	
(5 A-B-C-D-E) INV. ROUTE:	1 - 4 - 1 - 00012 - 0	(13B) SUBROUTE NUMBER:	
(2) HIGHWAY AGENCY DISTRICT:	02 - Fort Wayne	(16) LATITUDE:	40.674
(3) COUNTY CODE:	085 - WABASH	(17) LONGITUDE:	-85.74429
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	GRANT CREEK	A) STATE NAME:	
(7) FACILITY CARRIED:	CR 1050 S	B) PERCENT	%
(9) LOCATION:	00.10 W OF LAFONTAINE	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0000.000		

#### STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 003 UNIT:	
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(46) NUMBER OF APPROACH SPANS:	0000
B) TYPE OF DESIGN/CONSTR:	22 - Channel Beam	(107) DECK STRUCTURE TYPE:	2 - Concrete Precast Panels
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	6 - Bituminous
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	0 - None

#### AGE OF SERVICE

(27) YEAR BUILT:	1960	(28) LANES:	
(106) YEAR RECONSTRUCTED:	0000	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	00
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	000220
B) UNDER BRIDGE:	5 - Waterway	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2022
		(109) AVERAGE DAILY TRUCK TRAFFIC:	05 %
		(19) BYPASS DETOUR LENGTH:	003 MI

Inspector: Jason Petersen  
Inspection Date: 05/17/2022

Asset Name: 85-00143  
Facility Carried: CR 1050 S

### Bridge Inspection Report

#### GEOMETRIC DATA

(48) LENGTH OF MAX SPAN:	00036.0	FT	(35) STRUCTURE FLARED:	0 - No flare
(49) STRUCTURE LENGTH:	00067.5	FT	(10) INV RTE, MIN VERT CLEARANCE:	99.99 FT
(50) CURB/SIDEWALK WIDTHS:			(47) TOT HORIZ CLEARANCE:	024.6 FT
A) LEFT	01.0	FT	(53) VERT CLEAR OVER BR RDWY:	99.99 FT
B) RIGHT:	01.0	FT	(54) MIN VERTICAL UNDERCLEARANCE:	
(51) BRDG RDWY WIDTH CURB- TO-CURB:	024.6	FT	A) REFERENCE FEATURE:	N
(52) DECK WIDTH, OUT-TO-OUT:	026.6	FT	B) MIN VERT UNDERCLEAR:	00.00 FT
(32) APPROACH ROADWAY	018.0	FT	(55) LATERAL UNDERCLEARANCE RIGHT:	
(33) BRIDGE MEDIAN:	0 - No median		A) REFERENCE FEATURE:	N
(34) SKEW:	30	DEG	B) MIN LATERAL UNDERCLEAR:	000.0 FT
			(56) MIN LATERAL UNDERCLEAR ON LEFT:	000.0 FT

#### INSPECTIONS

(90) INSPECTION DATE:	05/17/2022	(91) DESIGNATED INSPECTION	12 MONTHS
(92) CRITICAL FEATURE INSPECTION:		FREQUENCY:	
A) FRACTURE CRITICAL REQUIRED/FREQUENCY:	N	(93) CRITICAL FEATURE INSPECTION DATE:	
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY:	N	A) FRACTURE CRITICAL DATE:	
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY:	N	B) UNDERWATER INSP DATE:	
		C) OTHER SPECIAL INSP DATE:	

#### CONDITION

(58) DECK:	5 - Fair Condition (minor section loss)	(60) SUBSTRUCTURE:	4 - Poor Condition (advanced deterioration)
(58.01) WEARING SURFACE:	5 - Fair Condition	(61) CHANNEL/CHANNEL PROTECTION:	5 - Bank eroded.. major damage
(59) SUPERSTRUCTURE:	5 - Fair Condition (minor section loss)	(62) CULVERTS:	N - Not Applicable

#### CONDITION COMMENTS

(58) DECK:	5 - Fair Condition (minor section loss)
Comments: FAIR-TRANSVERSE CRACKS, MINOR SPALLS WITH EXPOSED STEEL IN BOTTOM OF DECK, NO MAIN REINFORCING BARS EXPOSED, SEEPAGE BETWEEN BEAMS WITH EFFLORESCENCE Material: PRECAST CONCRETE CHANNEL BEAMS	
(58.01) WEARING SURFACE:	5 - Fair Condition
Comments: FAIR-PATCHED, SPALLED, AND UNEVEN, CRACKS OVER PIERS, NUMEROUS LONGITUDINAL AND TRANSVERSE CRACKS, EXPOSED TOP OF BEAM AT NORTHEAST CORNER SPALLED Material: BITUMINOUS (2")	

Inspector: Jason Petersen  
 Inspection Date: 05/17/2022

Asset Name: 85-00143  
 Facility Carried: CR 1050 S

### Bridge Inspection Report

(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

FAIR-TRANSVERSE CRACKS, MINOR SPALLS WITH EXPOSED STEEL IN BOTTOM OF DECK, NO MAIN REINFORCING BARS EXPOSED, SEEPAGE BETWEEN BEAMS WITH EFFLORESCENCE  
 Material: PRECAST CONCRETE CHANNEL BMS

(60) SUBSTRUCTURE: 4 - Poor Condition (advanced deterioration)

Comments:

POOR-BOTH END BENTS UNDERPINNED WITH CONCRETE AND SHEET PILES, PIER 2 WITH MINOR EXPOSED STEEL, COLUMNS 1 AND 2 AT PIER 3 WITH LARGE SPALLS AT WATERLINE  
 Material: CAP ON CONCRETE COLUMNS

(61) CHANNEL/CHANNEL PROTECTION 5 - Bank eroded.. major damage

Comments:

FAIR-MINOR EROSION, SILT BUILDUP IN EAST SPAN, CHANNEL MEANDERING  
 Material: NATURAL/RIPRAP

(62) CULVERTS: N - Not Applicable

Comments:

N/A  
 Material: N/A

### LOAD RATING AND POSTING

(31) DESIGN LOAD:	0 - Unknown	(66) INVENTORY RATING:	36
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD:	0 - Field evaluation and documented engineering judgment
(41) STRUCTURE OPEN/POSTED/CLOSED:	A - Open	(66B) INVENTORY RATING (H):	
(64) OPERATING RATING:	36	(66C) TONS POSTED :	
(63) OPERATING RATING METHOD:	0 - Field evaluation and documented engineering judgment	(66D) DATE POSTED/CLOSED:	

### APPRAISAL

SUFFICIENCY RATING:	63.9	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	1	36A) BRIDGE RAILINGS:	0
(67) STRUCTURAL EVALUATION:	4	36B) TRANSITIONS:	0
(68) DECK GEOMETRY:	5	36C) APPROACH GUARDRAIL:	0
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	N	36D) APPROACH GUARDRAIL ENDS:	0

(71) WATERWAY ADEQUACY: 5 - Occasional Overtopping of Approaches - Significant Delays

Comments:

APPEARS BARELY ADEQUATE

(72) APPROACH ROADWAY ALIGNMENT: 8 - Equal to present desirable criteria

Comments:

GOOD-WORN, TRANSVERSE CRACKS Material: BITUMINOUS (72): VERY GOOD-STRAIGHT, RISE TO WEST

Inspector: Jason Petersen  
Inspection Date: 05/17/2022

Asset Name: 85-00143  
Facility Carried: CR 1050 S

### Bridge Inspection Report

(113) SCOUR CRITICAL BRIDGES: 5 - Scour within limits of footing or piles

Comments:  
STABLE-WITHIN LIMITS

### CLASSIFICATION

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	02 - County Highway Agency
(22) OWNER:	02 - County Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	09 - Rural - Local
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Not a STRAHNET route
(101) PARALLEL STRUCTURE:	N - No parallel structure	(102) DIRECTION OF TRAFFIC:	2-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	0 - Structure/Route is NOT on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route not on network
(112) NBIS BRIDGE LENGTH:	Yes		

### NAVIGATION DATA

(38) NAVIGATION CONTROL:	0 - No navigation control on waterway (bridge permit not required)	(39) NAVIGATION VERTICAL CLEAR:	000.0 FT
(111) PIER OR ABUTMENT PROTECTION:		(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE:	FT
		(40) NAV HORIZONTAL CLEARANCE:	0000.0 FT

### PROPOSED IMPROVEMENTS

(75A) TYPE OF WORK:	31 - Replacement - Load/Geometry	(95) ROADWAY IMPROVEMENT COST:	\$ 000225
(75B) WORK DONE BY:	1 - Work to be done by contract	(96) TOTAL PROJECT COST:	\$ 000725
(76) LENGTH OF IMPROVEMENT:	000093. FT	(97) YR OF IMPROVEMENT COST EST:	2022
	0	(114) FUTURE AVG DAILY TRAFFIC:	000330
(94) BRIDGE IMPROVEMENT COST:	\$ 000500	(115) YR OF FUTURE ADT:	2042