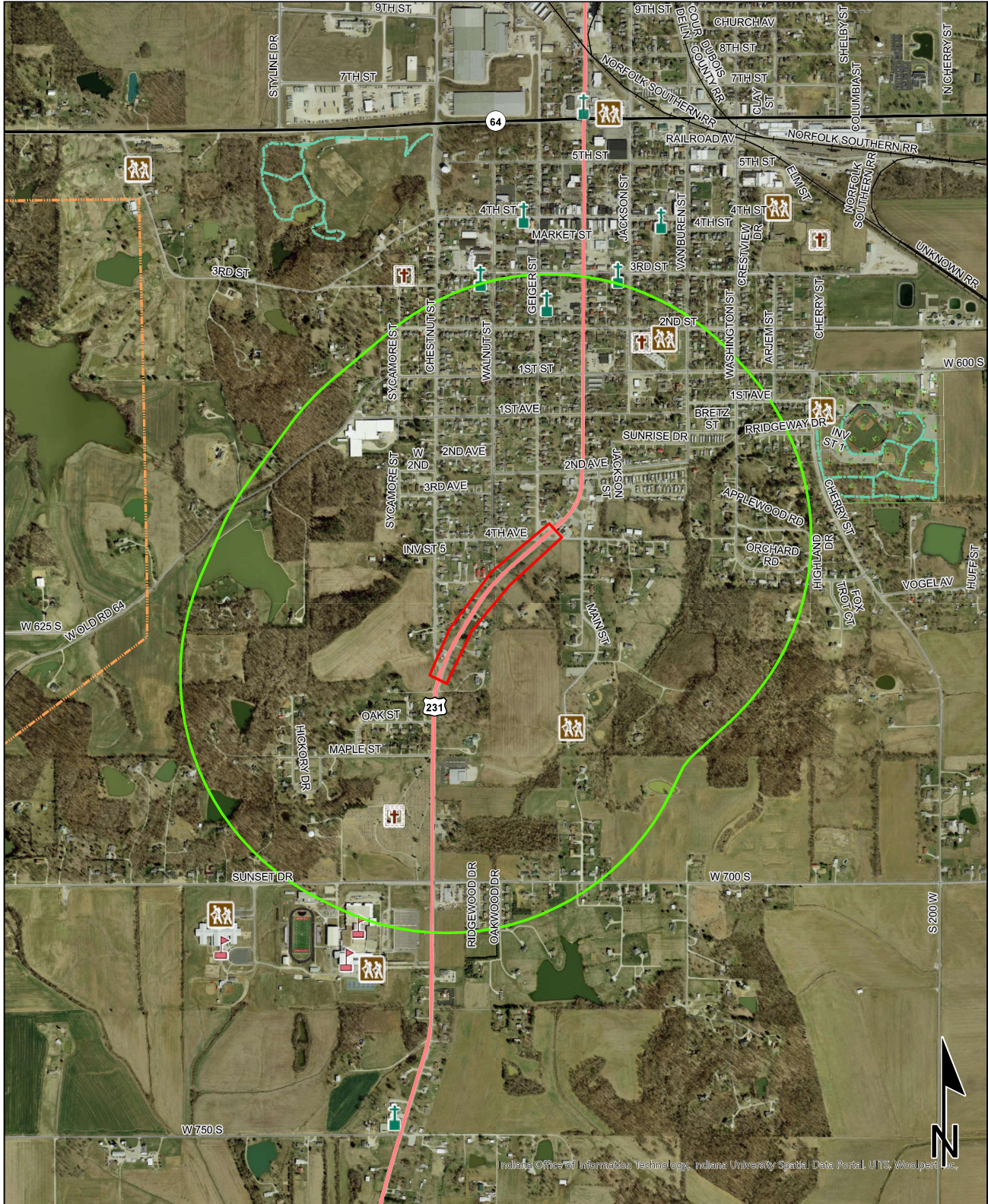


Red Flag Investigation - Infrastructure

US 231 From 1.20 Miles South of SR 64 to 0.88 Mile South SR 64

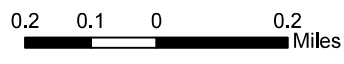
Des. No. 2101215, HMA Overlay and Drainage Improvements

Dubois 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)
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.



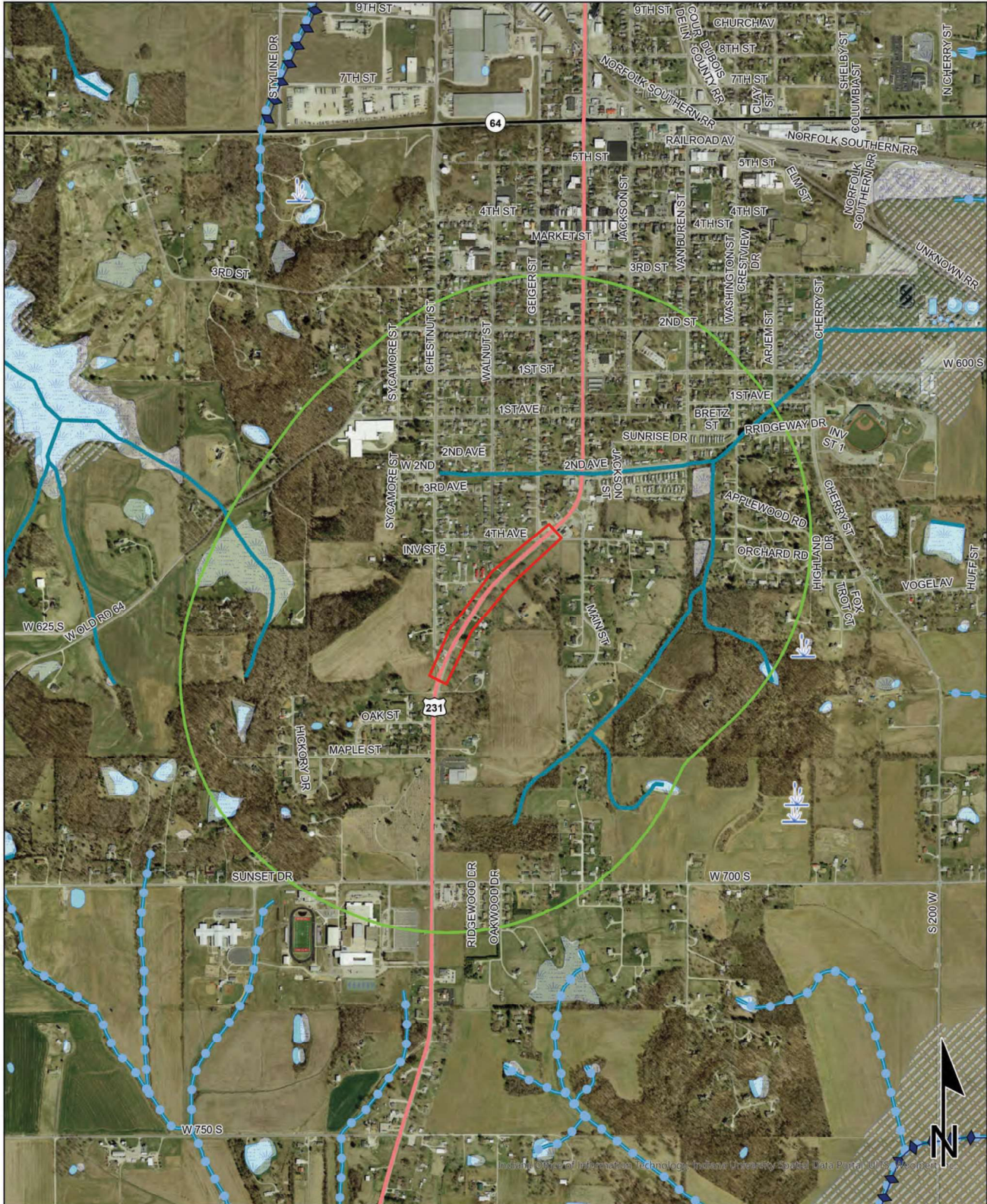
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources

US 231 From 1.20 Miles South of SR 64 to 0.88 Mile South SR 64

Des. No. 2101215, HMA Overlay and Drainage Improvements

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

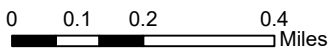
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



Red Flag Investigation - Mining and Mineral Exploration
 US 231 From 1.20 Miles South of SR 64 to 0.88 Mile South SR 64
 Des. No. 2101215, HMA Overlay and Drainage Improvements
 Dubois County, Indiana



Indiana Office of Information Technology, Indiana University Spatial Data Portal, UTM, Woodport, Inc.



Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (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.

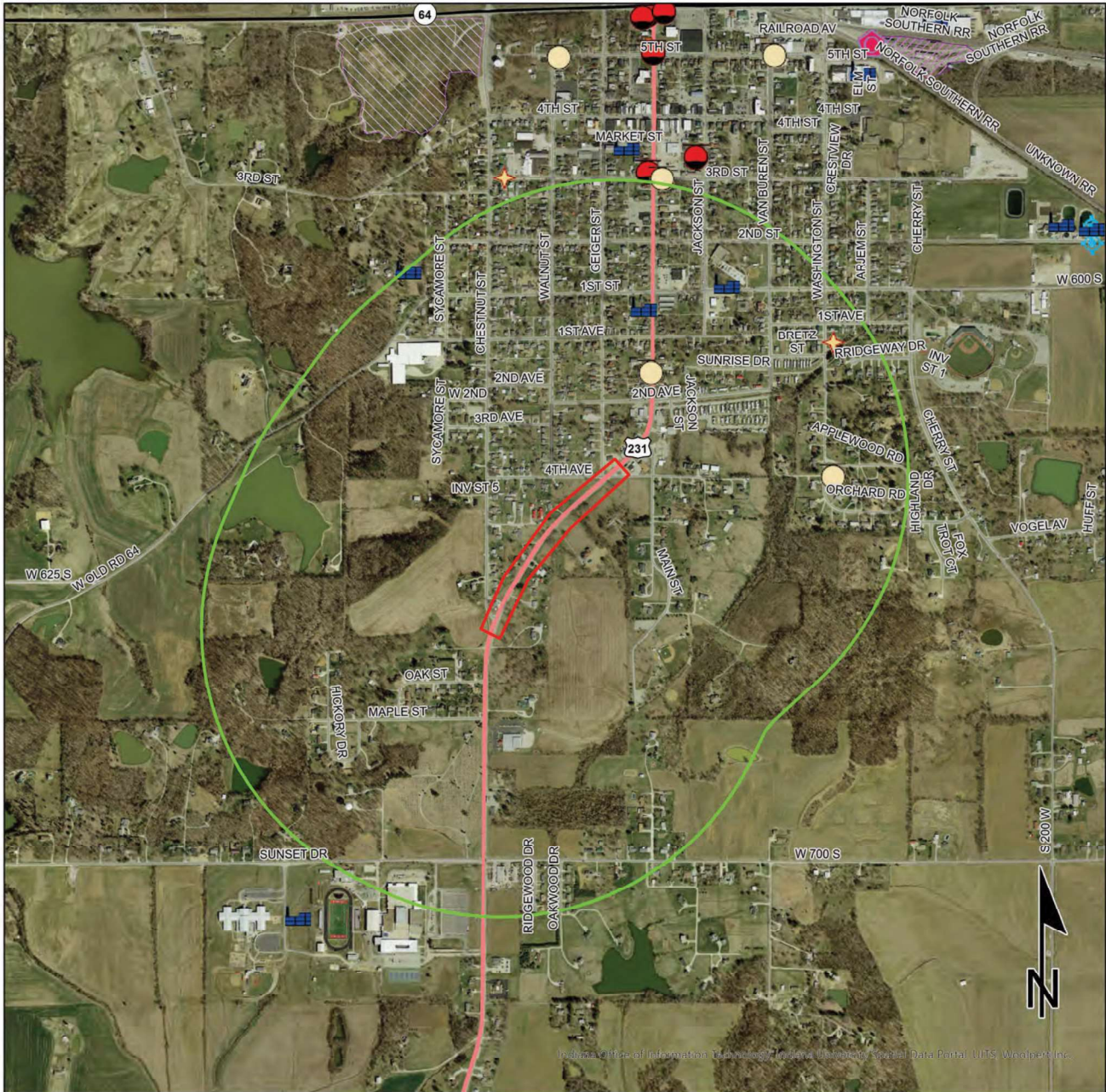
Oil and Gas Wells	County Boundary	Toll
Mineral Resources	Project Area	Interstate
Mine - Surface	Half Mile Radius	State Route
Mine - Underground		US Route
		Local Road

Red Flag Investigation - Hazardous Material Concerns

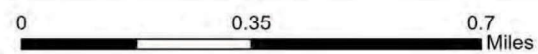
US 231 From 1.20 Miles South of SR 64 to 0.88 Mile South SR 64

Des. No. 2101215, HMA Overlay and Drainage Improvements

Dubois County, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		Toll
	Infectious/Medical Waste Site		Superfund		Interstate
	Leaking Underground Storage Tank		Tire Waste Site		State Route
	Manufactured Gas Plant		Underground Storage Tank		US Route
	NPDES Facilities		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				



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

Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 18N
Map Datum: NAD83

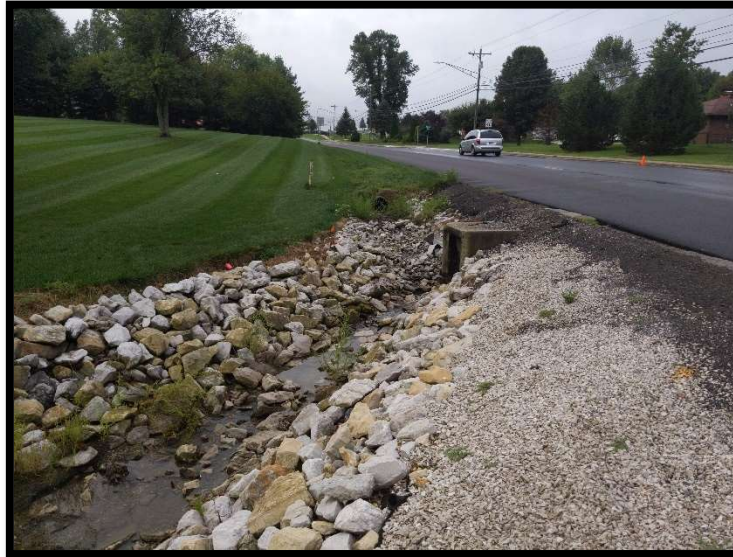
US 231 Drainage Improvements
Dubois County, Indiana
Des. No. 2101215

Appendix F: Water Resources

Certain figures and photographs have been removed from attachments to avoid duplication. The removed figures and photographs are located in Appendix B.

Waters of the U.S. Report

US 231 DRAINAGE IMPROVEMENTS



DUBOIS COUNTY

DES. NO.

2101215

Prepared by:

HNTB

111 Monument Circle, Suite 1200
Indianapolis, IN, 46204
317.636.4682

December 29, 2021

Approved 1.13.2022 by:

Maryssa Engstrom

1. PROJECT INFORMATION

Date of Field Reconnaissance: September 20, 2021

1.1 LOCATION

The project is located 1.20 miles south of SR 64 to 0.88 mile south of SR 64 in Dubois County, Indiana.

- Sections 3 and 4, Township 3 South, Range 5 West
- Huntingburg, Indiana Quadrangle
- Lat/Long 38.285025 N, 86.959277 W – World Geodetic System 1984 (WGS84)

1.2 PROJECT DESCRIPTION

The Federal Highway Administration (FHWA) and Indiana Department of Transportation (INDOT), Vincennes District, are planning to proceed with the US 231 Drainage Improvements project (Des. No. 2101215) located within the incorporated limits of Huntingburg, Indiana. Project plans are still in development; however, proposed activities are anticipated to include increasing the cross section of UNT to Bruner Creek in order to improve drainage during high-water events. This is also anticipated to require the removal of existing driveway culverts and the installation of hydraulically adequate driveway culverts. The use of water detention areas is also being considered at this time. The project will impact UNT to Bruner Creek due to proposed changes to increase the cross-sectional area of the stream. Potential impacts to other roadside features delineated during the September 2021 field investigation are unknown at this stage of design; however, they would likely be limited to minor channel grading or pipe replacements in accordance with hydraulic requirements.

2. DESKTOP RECONNAISSANCE

2.1 SOIL ASSOCIATIONS AND SERIES TYPES

According to the Soil Survey Geographic (SSURGO) Database for Dubois County, Indiana, the following mapped soils series are found within the US 231 investigated area (Attachment Pages 4-6).

- **Gilpin silt loam (GID2):** well drained, formed on hills and structural benches. Slope ranges from 12 to 18 percent. Gilpin silt loam is a non-hydric soil with a rating of 0%.
- **Stendal silt loam (St):** very deep, somewhat poorly drained soils that formed in acid, silty alluvium. These soils are on flood plains and flood-plain steps. Slope ranges from 0 to 2 percent. Stendal silt loam is not considered a hydric soil with a rating of 0%; however, Stendal silt loam 3% inclusions of hydric Bonnie soils on flood plains and backswamps.
- **Zanesville silt loam (TIB):** moderately well drained, formed on ridges. Slope ranges from 2 to 6 percent. Zanesville silt loam is considered a non-hydric soil with a rating of 0%.

2.2 NATIONAL WETLANDS INVENTORY

Based on the U.S. Fish and Wildlife National Wetlands Inventory (NWI) data (www.fws.gov/wetlands/Data/State-Downloads.html) no wetlands are located within the investigated area. The nearest NWI wetland is a Riverine, intermittent, streambed, seasonally flooded feature located approximately 0.18 mile north of the project area (Attachment Page 6).

2.3 HYDROLOGY

The investigated area lies within the Bruner Creek watershed (HUC 051202090303) (Attachment Page 8). The investigated area is not located within a regulated floodplain (Attachment Page 9).

3. FIELD RECONNAISSANCE

HNTB Indiana staff performed a field review of the investigated area on September 20, 2021. The purpose was to determine the presence of Waters of the U.S. within the investigated area. HNTB Indiana staff collected data during the field review to appropriately characterize the investigated area and determine the presence or absence of jurisdictional waters. The field investigation area encompassed the area required for construction access. HNTB staff photographed select features and areas of interest throughout the investigated area. A photo location map and selected photographs are included as Attachment Pages 10-18.

The proposed investigated area was analyzed using the methods outlined in the Routine Determination, On-site Inspection Necessary procedure in the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Eastern Mountains and Piedmont Region* (US Army corps of Engineers, 2010). Identification indicator status of plant species utilized the 2020 Eastern Mountains and Piedmont Region National Wetland Plant List. Field GIS data was collected using a Trimble® hand-held GPS with sub-meter accuracy.

4. WATERS

The September 2021 field reconnaissance of the US 231 investigated area identified three streams:

- Unnamed tributary (UNT) to Bruner Creek
- UNT 1 to UNT to Bruner Creek (UNT 1)
- UNT 2 to UNT to Bruner Creek (UNT 2)

Information obtained during the field investigation is provided in detail below.

Six National Hydrography Dataset (NHD) flowlines are present within the investigated area. The locations of four NHD flowlines correspond closely with the three streams and one roadside ditch identified during the investigation (Attachment Page 7). The areas where the fifth and six NHD lines are indicated, located northeast of Oak Street and Maple Street, respectively, were investigated during the site visit but no evidence of a captured channel was observed. Flow in the area of these NHD lines has likely been influenced by local development as well as the enclosed drainage systems.

No NWI wetlands are located within the investigated area. No wetlands were identified within the investigated area during the September field investigation. Roadside drainage in the investigated area enters the stormwater system of

Huntingburg, Indiana, or is diverted to UNT to Bruner Creek through a drainage system that is primarily enclosed. The lack of consistent hydrology is not conducive to the formation of wetlands within the investigated area.

The delineations of streams and roadside ditches were extended outside of the apparent existing right-of-way as needed in order to include areas where right-of-way acquisition may be necessary.

4.1 STREAMS

The field investigation resulted in the identification of three streams. Vegetation along the banks of the streams was dominated by tall fescue (*Schedonorus arundinaceus*, FACU) and Japanese bristle grass (*Setaria faberi*, UPL). The ordinary high water mark (OHWM) for each stream was obtained at a representative location, outside of the influence of any existing structures. The OHWM measurement locations are depicted on the Water Resources Map (Attachment Page 7). Characteristics of the streams are summarized in Table 1.

UNT TO BRUNER CREEK

UNT to Bruner Creek begins southwest of the investigated area, enters the investigated and flows approximately 1,438 feet northeast where it enters an enclosed drainage system. UNT to Bruner Creek is not contained within the existing right-of-way. According to the classification codes developed by Cowardin et al. (1979), this stream feature would be classified as a riverine, ephemeral (R6) resource. UNT to Bruner Creek is not visible as a USGS blue line on the Huntingburg, Indiana quadrangle map; therefore, the stream is considered ephemeral based on the presence of a defined bed and bank and water flow following a recent rain event. Although it was not raining at the time of the investigation, Huntingburg, Indiana, received 0.63 inches of precipitation on September 20, 2021 (<https://www.wunderground.com>). The UNT to Bruner Creek substrate consists of silt, and portions of the channel susceptible to erosion and scour are lined with riprap. The OHWM of UNT to Bruner Creek is 1.5 feet wide by 0.5 feet deep. The banks of the stream are lined with riprap. Following a qualitative assessment, this resource is a poor-quality feature based on a lack of in-stream cover or development, and the presence of an artificial substrate. UNT to Bruner Creek outlets into an unnamed tributary located south of East 2nd Avenue, which flows into Bruner Creek, which flows into Hunley Creek, which flows into the Patoka River, a TNW. UNT to Bruner Creek is likely a Water of the US due to its hydrologic connectivity to the Patoka River.

UNT 1 TO UNT TO BRUNER CREEK

UNT 1 is an ephemeral stream feature that begins southeast of the investigated area, enters the investigated area and flows northeast, parallel to US 231, before being diverted beneath US 231 and entering UNT to Bruner Creek. UNT 1 is not contained within the existing right-of-way. Approximately 355 feet of the stream is located within the investigated area. According to the classification codes developed by Cowardin et al. (1979), this stream feature would be classified as a riverine, ephemeral (R6) resource. UNT 1 is not visible as a USGS blue line on the Huntingburg, Indiana quadrangle map; therefore, the stream is considered ephemeral based on the presence of a defined bed and bank, indicative of consistent flow during precipitation events. Although it was not raining at the time of the investigation, Huntingburg, Indiana, received 0.63 inches of precipitation on September 20, 2021 (<https://www.wunderground.com>). The UNT 1 substrate consists of silt, and a portion of the channel is lined with riprap. The OHWM of UNT 1 is 0.5 feet wide by 0.1 feet deep. Following a qualitative assessment, this resource is a poor-quality feature based on a lack of in-stream cover or development. UNT 1 outlets into UNT to Bruner Creek, which outlets into an unnamed tributary located south of East 2nd Avenue, which flows into Bruner Creek, which flows into Hunley Creek, which flows into the Patoka River, a TNW. UNT 1 is likely a Water of the US due to its hydrologic connectivity to the Patoka River.

UNT 2 TO UNT TO BRUNER CREEK

UNT 2 to UNT to Bruner Creek is an ephemeral stream feature that daylights from an enclosed drainage system that flows approximately 33 feet northeast before entering an enclosed drainage system. The visible portion of UNT 2 is contained within the existing right-of-way; however, the stream may begin outside of the existing right-of-way. According to the classification codes developed by Cowardin et al. (1979), this stream feature would be classified as a riverine, ephemeral (R6) resource. UNT 2 is not visible as a USGS blue line on the Huntingburg, Indiana quadrangle map; therefore, the stream is considered ephemeral based on the presence of a defined bed and bank and water flow following a recent rain event. Although it was not raining at the time of the investigation, Huntingburg, Indiana, received 0.63 inches of precipitation on September 20, 2021 (<https://www.wunderground.com>). The UNT 2 substrate consists of silt, and a portion of the channel is lined with riprap. The OHWM of UNT 2 is 1.1 feet wide by 0.4 feet deep. The banks of the stream are lined with riprap. Following a qualitative assessment, this resource is a poor-quality feature based on a lack of in-stream cover or development. UNT 2 appears to outlet into UNT to Bruner Creek via an enclosed drainage system; however, the outlet of the drainage system could not be verified during the field investigation. UNT 2 outlets into UNT to Bruner Creek, which outlets into an unnamed tributary located south of East 2nd Avenue, which flows into Bruner Creek, which flows into Hunley Creek, which flows into the Patoka River, a TNW. UNT 2 to Bruner Creek is likely a Water of the US due to its hydrologic connectivity to the Patoka River.

Table 1: Stream and Waterway Summary Table

Stream Name	Photo #	Upstream Drainage Area	Lat/Long	OHWM	Type	Quality	Substrate	USGS Blue Line	Riffles /Pools	Waters of U.S.
UNT to Bruner Creek	1-12	0.055 square miles	38.285025 N 86.959277 W	1.5 feet wide by 0.5 feet deep	Ephemeral	Poor	Silt/Riprap	No	No	Yes
UNT 1	2, 26, 29	> 1 square mile	38.285534 N 86.958484 W	0.5 feet wide by 0.1 feet deep	Ephemeral	Poor	Silt	No	No	Yes
UNT 2	16-17, 23-24	0.048 square miles	38.282110 N 86.960865 W	1.1 feet wide by 0.4 feet deep	Ephemeral	Poor	Silt	No	No	Yes

The Upstream drainage areas were obtained using USGS StreamStats (<https://water.usgs.gov/osw/streamstats/indiana.html>)

4.2 ROADSIDE DRAINAGE FEATURES

Roadside Ditch (RSD) 1 does not contain a defined OHWM boundary or hydrology indicative of wetland conditions. RSD 1 carries roadside drainage following storm events, but the volume and frequency of these conditions is insubstantial for the formation of a defined a bed and bank. RSD 1 originates outside of the existing right-of-way. Roadside drainage is summarized in Table 2.

Table 2: Roadside Ditch Summary Table

Feature Name	Photo #	Latitude	Longitude	Linear Feet in the Investigated Area	Substrate	USGS Blue Line	Waters of U.S.
RSD 1	26, 28-29	38.285711 N	86.958049 W	105	Silt	No	No

4.3 OPEN WATERS

Site investigations did not identify open water features within the investigated area.

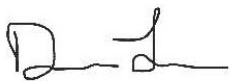
5. CONCLUSION

The September field review for the US 231 project identified three streams within the identified survey area (UNT to Bruner Creek, UNT 1, and UNT 2).

UNT to Bruner Creek, UNT 1, and UNT 2 are likely jurisdictional due to their hydrologic connectivity to the Patoka River, a TNW.

If construction exceeds the limits of the survey review area illustrated in this document, further field investigation will be needed. This report is this office’s best judgment of water resources that are likely to be under federal jurisdiction, based on the guidelines set forth by the USACE. The final determination of jurisdictional waters is ultimately the responsibility of the USACE. The INDOT Office of Environmental Services should be contacted immediately if impacts occur.

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 Instructional Guidebook*, and other appropriate agency guidelines.



Dan Logsdon, Scientist II

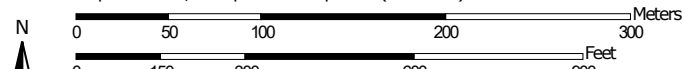
PREPARERS:

HNTB Inc., Staff	Position	Contributing Effort
Richard Connolly	Science Project Manager	Project Management Field Data Collection
Dan Logsdon	Scientist II	Field Data Collection Report Preparation

Soil Map—Dubois County, Indiana
(Investigated Area_11112021)



Map Scale: 1:4,090 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84



Natural Resources
Conservation Service

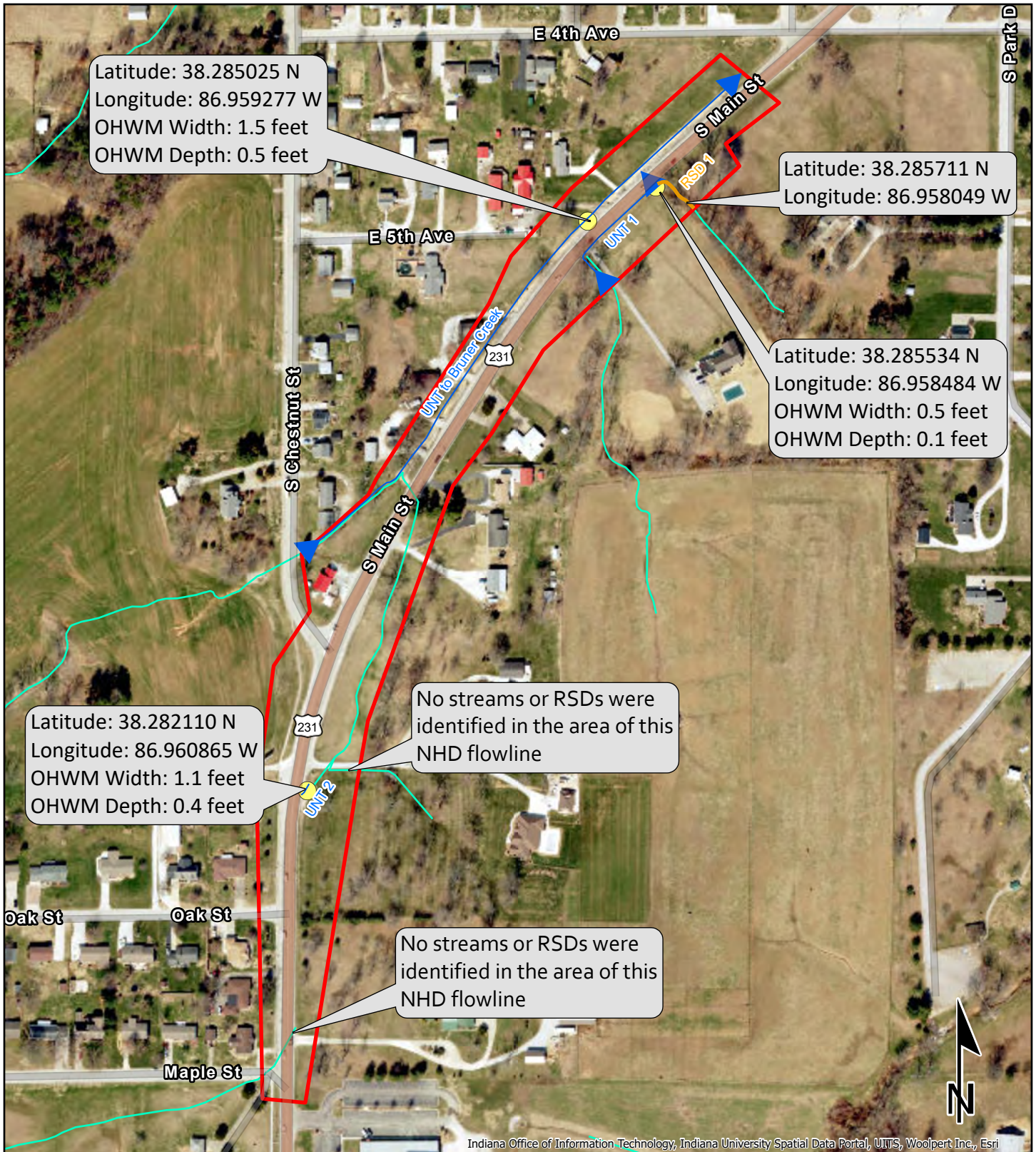
Web Soil Survey
National Cooperative Soil Survey


Hydric Rating by Map Unit

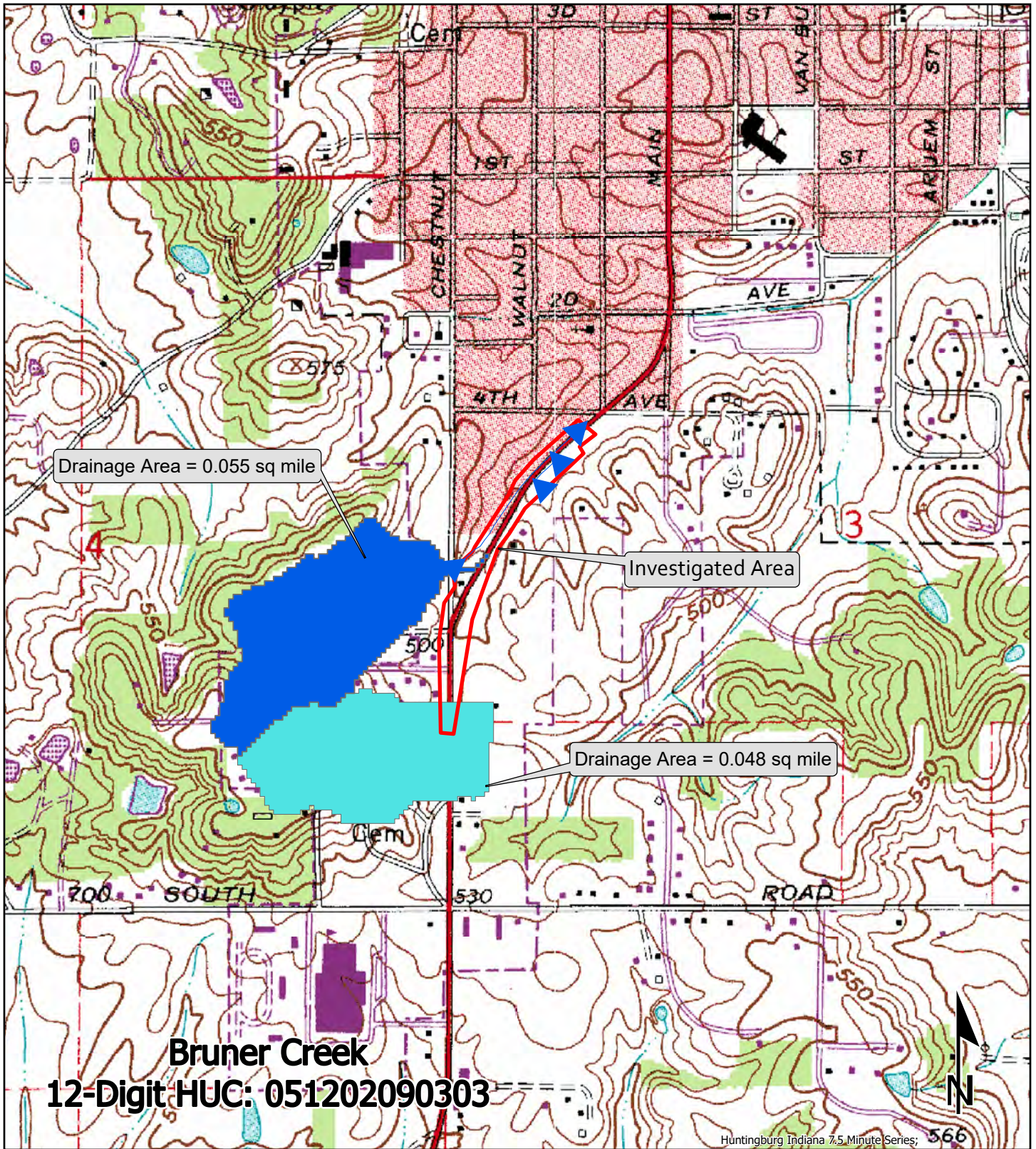
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
GID2	Gilpin silt loam, 12 to 18 percent slopes, eroded	0	3.1	28.9%
St	Stendal silt loam, frequently flooded	3	4.3	39.5%
TIB	Zanesville silt loam, 2 to 6 percent slopes	0	3.4	31.6%
Totals for Area of Interest			10.8	100.0%



Wetlands Estuarine and Marine Deepwater Estuarine and Marine Wetland Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond Lake Other Riverine	Investigated Area	National Wetlands Inventory Map US 231 Drainage Improvements Dubois County, Indiana	
		Des. No. 2101215 1 inch = 500 ft	 Graphics created by HNTB Corporation (2021)




<ul style="list-style-type: none"> ▭ Investigated Area ▶ Delineated Stream — Unclassified Drainage Flowlines (Local-Res. NHD) — Roadside Ditch ● OHWM Point 	Water Resources Map US 231 Drainage Improvements Dubois County, Indiana	
0 150 300 Feet	Des. No. 2101215	
	1 inch = 300 ft	Graphics created by HNTB Corporation (2021)



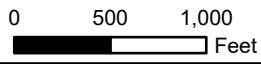
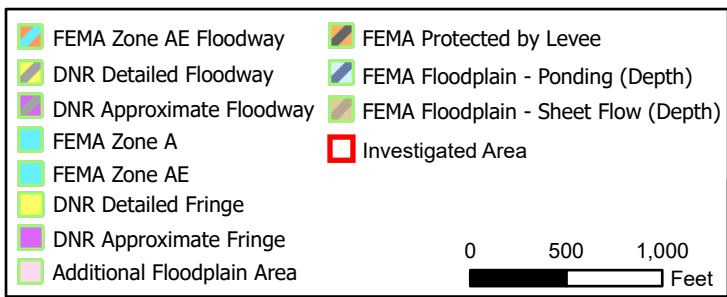
Bruner Creek
12-Digit HUC: 051202090303

Huntingburg Indiana 7.5 Minute Series; 566

▶ Delineated Streams	Watershed Map	
▭ Investigated Area		
■ UNT to Bruner Creek Upstream Drainage Area	Drainage Improvements Dubois County, Indiana	
■ UNT 2 to Bruner Creek Upstream Drainage Area		
0 1,000 Feet	1 inch = 1,000 ft	
		 Graphics created by HNTB Corporation (2021)



Indiana Department of Natural Resources, Division of Water, Indiana Office of Information Technology, Indiana



<h2>IDNR Floodplain Map</h2> <p>US 231 Drainage Improvements Dubois County, Indiana</p>	
Des. No. 2101215	<p>Graphics created by HNTB Corporation (2021)</p>
1 inch = 1,000 ft	

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: December 29, 2021

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Dan Logsdon, 111 Monument Circle, Suite 1200, Indianapolis, IN 46204; 317-917-5336; dlogsdon@hntb.com

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The FHWA and INDOT are proposing drainage improvement project (Des. No. 2101215) along US 231 in Dubois County, Indiana. The project is located approximately 1.20 miles south of SR 64 within the incorporated limits of Huntingburg, Indiana. More specifically, the project is located in Sections 3 & 4, Township 3 South, Range 5 West in Patoka Township. Project plans are still being developed.

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

State: Indiana County/parish/borough: Dubois City: Huntingburg

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

Lat.: 38.285025 Long.: -86.959277

Universal Transverse Mercator: Zone 16 - Easting: 503561 Northing: 4237441

Name of nearest waterbody: UNT to Bruner Creek

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

Office (Desk) Determination. Date:

Field Determination. Date(s):

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

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource “may be” subject (i.e., Section 404 or Section 10/404)
UNT to Bruner Creek	38.285025 ₊	-86.959277 ₊	1,438 linear feet / 0.05 acre	Non-wetland ₊	Section 404
UNT 1 to UNT to Bruner Creek	38.285534 ₊	-86.958484 ₊	355 linear feet / 0.01 acre	Non-wetland ₊	Section 404
UNT 2 to UNT to Bruner Creek	38.282110 ₊	-86.960865 ₊	33 linear feet / 0.01 acre	Non-wetland ₊	Section 404

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

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

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

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Map: Aerial, USGS topo, StreamStats, Web of Soil, NWI.
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report. Rationale: _____.
- Data sheets prepared by the Corps: _____.
- Corps navigable waters' study: _____.
- U.S. Geological Survey Hydrologic Atlas: NHD Hydrography layers, 2014.
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Petroleum 1:24,000 and 1:6,000 Quadrangles.
- Natural Resources Conservation Service Soil Survey. Citation: Web of Soil Service, 2021.
- National wetlands inventory map(s). Cite name: NWI Mapper Online Tool 2021.
- State/local wetland inventory map(s): _____.
- FEMA/FIRM maps: IDNR Floodplain GIS Database.
- 100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): 2018 - Indiana Ortho.
or Other (Name & Date): Ground Photos Taken September 20, 2021.
- Previous determination(s). File no. and date of response letter: _____.
- Other information (please specify): _____.

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

Signature and date of
Regulatory staff member
completing PJD

Dan Logsdon Digitally signed by Dan Logsdon
Date: 2021.11.18 13:35:54 -05'00'

Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

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

US 231 Drainage Improvements
Dubois County, Indiana
Des. No. 2101215

Appendix G: Public Involvement

NOTICE OF SURVEY

September 1, 2021

RE: US 231 Drainage Improvement
Huntingburg, Indiana

Dear Property Owner:

Our information indicates that you own or occupy property near this proposed highway project. Our employees will be doing a survey of the project area in the near future. It may be necessary for them to come onto your property to complete this work. This is allowed by law by Indiana Code IC 8-23-7-26. They will show you their identification, if you are available, before coming onto your property. 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 may eventually have on your property. If we determine later that your property is involved, we will contact you 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 work may also include the identification and mapping of wetlands, archaeological investigations (which may include excavation of small shovel test probes), and various other environmental studies. The survey is needed for the proper planning and design of this highway project. Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If any problems do occur, please contact our field crew or contact me at the phone number or address shown herein.

Sincerely,

VS Engineering, Inc.
Alex Daugherty
812-401-0303

Des. No. 2101215

US 231 Drainage Improvements
Dubois County, Indiana
Des. No. 2101215

Appendix H: Air Quality

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

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2022	2023	2024	2025	2026	
Indiana Department of Transportation	43252 / 2001919	Init.	SR 64	HMA Overlay, Preventive Maintenance	From 1.52 mi W. of US 231 (WCL Huntingburg) to 1.02 mi E US 231 (ECL Huntingburg)	Vincennes	2.537	STBG	\$5,540,342.00	Safety Consulting	PE	\$366,688.80	\$91,672.20	\$458,361.00					
										Road Consulting	PE	\$280,080.00	\$70,020.00	\$350,100.00					
										Road ROW	RW	\$9,600.00	\$2,400.00			\$12,000.00			
Performance Measure Impacted: Pavement Condition																			
Comments: Include DES 2000218, 2001919																			
Indiana Department of Transportation	44004 / 2100829	Init.	SR 145	Small Structure Replacement	over UNT Anderson River, SR 145 3.33mi N JCT I-64	Vincennes	.1	STBG	\$1,922,626.00	Bridge Consulting	PE	\$302,200.00	\$75,550.00	\$377,750.00					
										Bridge Construction	CN	\$1,166,700.80	\$291,675.20			\$140,000.00	\$1,318,376.00		
										Bridge ROW	RW	\$69,200.00	\$17,300.00			\$86,500.00			
Performance Measure Impacted: Bridge Condition																			
Comments: Include DES 2100285, 2100828, 2100829																			
Indiana Department of Transportation	44035 / 2101215	Init.	US 231	Drainage Ditch Correction	From 1.20 mi S of SR 64 to 0.88 mi S of SR 64	Vincennes	.33	NHPP	\$4,858,848.00	American Rescue Plan Act	CN	\$3,102,358.40	\$775,589.60		\$3,877,948.00				
										American Rescue Plan Act	PE	\$400,000.00	\$100,000.00	\$500,000.00					
										American Rescue Plan Act	RW	\$120,000.00	\$30,000.00	\$150,000.00					
Performance Measure Impacted: Safety																			
Comments: Include DES 2101216, 2101219, 2101215																			
Dubois County Total																			
Federal: \$19,718,252.63										Match :\$4,929,563.15									
2022: \$3,462,385.57										2023: \$8,280,468.06									
2024: \$6,739,185.09										2025: \$4,847,401.06									
2026: \$1,318,376.00																			

US 231 Drainage Improvements
Dubois County, Indiana
Des. No. 2101215

Appendix I: Additional Studies

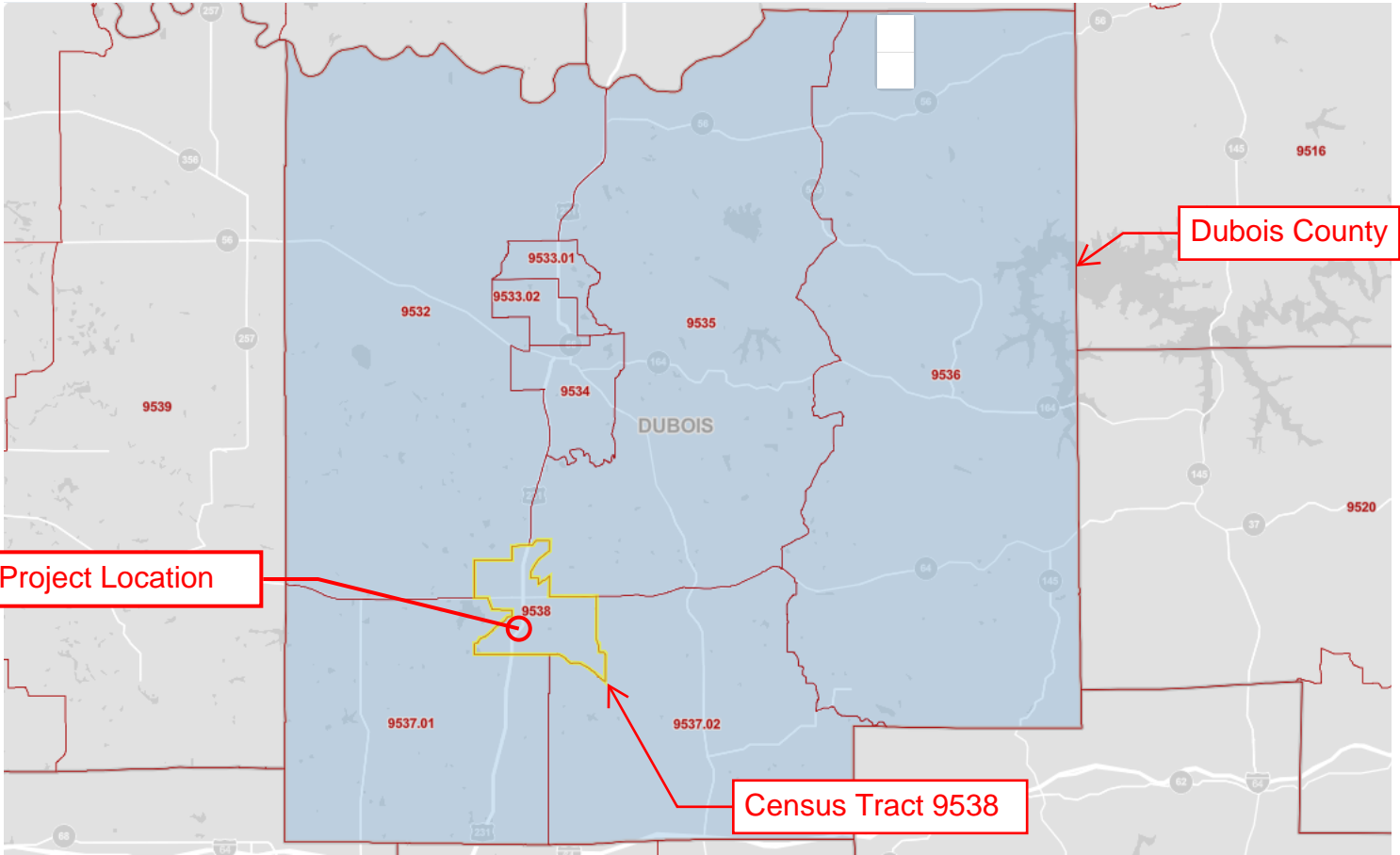
Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated July 2020)

ProjectNumber	SubProjectCode	County	Property
1800213	1800213	Dubois	Ferdinand 18th St. (Northside) Park
1800251	1800251	Dubois	Dubois County Park & 4H Fairgrounds
1800334	1800334E	Dubois	Jasper Pool
1800334	1800334D	Dubois	Southside Park
1800363	1800363H	Dubois	Ferdinand State Forest
1800363	1800363V	Dubois	Patoka Reservoir
1800405	1800405F	Dubois	Buffalo Flat Nature Preserve
1800411	1800411	Dubois	Huntingburg City Park
1800425	1800425	Dubois	Ferdinand 18th St. (Northside) Park
1800511	1800511	Dubois	Ferdinand 18th St. (Northside) Park
1800512	1800512	Dubois	Dubois County Park
1800562	1800562	Dubois	Central Park
1800598	1800598	Dubois	Parklands of Jasper
1800599	1800599	Dubois	Old Town Lake
1800632	1800632	Dubois	Dubois County Park

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

Selection Map

Select Clear Geos Layer Year Basemap



LEGEND

YEAR: 2020

Selected Geographies

17

3 mi



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.

Label	Dubois County, Indiana	Census Tract 9538, Dubois County, Indiana
<ul style="list-style-type: none"> ▼ Total: 	43,637	5,727
<ul style="list-style-type: none"> ▼ Population of one race: 	41,929	5,275
<ul style="list-style-type: none"> White alone 	38,864	4,108
<ul style="list-style-type: none"> Black or African American alone 	202	61
<ul style="list-style-type: none"> American Indian and Alaska Native alone 	148	45
<ul style="list-style-type: none"> Asian alone 	249	27
<ul style="list-style-type: none"> Native Hawaiian and Other Pacific Islander alone 	5	0
<ul style="list-style-type: none"> Some Other Race alone 	2,461	1,034
<ul style="list-style-type: none"> ▼ Population of two or more races: 	1,708	452
<ul style="list-style-type: none"> ▼ Population of two races: 	1,640	438
<ul style="list-style-type: none"> White; Black or African American 	144	27
<ul style="list-style-type: none"> White; American Indian and Alaska Native 	311	70
<ul style="list-style-type: none"> White; Asian 	78	11
<ul style="list-style-type: none"> White; Native Hawaiian and Other Pacific Islander 	8	0
<ul style="list-style-type: none"> White; Some Other Race 	1,055	321
<ul style="list-style-type: none"> Black or African American; American Indian and Alaska Native 	1	0
<ul style="list-style-type: none"> Black or African American; Asian 	6	0
<ul style="list-style-type: none"> Black or African American; Native Hawaiian and Other Pacific Islander 	2	0
<ul style="list-style-type: none"> Black or African American; Some Other Race 	9	6

Table Notes

RACE

Survey/Program: Decennial Census

Universe: Total population

Year: 2020

Table ID: P1

Note: For information on data collection, confidentiality protection, nonsampling error, and definitions, see 2020 Census Redistricting Data (Public Law 94-171) Summary File Technical Documentation.

Source: U.S. Census Bureau, 2020 Census Redistricting Data (Public Law 94-171)

For information on the statistical methods used to protect confidentiality in these tables, see Disclosure Avoidance and the 2020 Census.

POVERTY STATUS IN THE PAST 12 MONTHS

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.

Label	Dubois County, Indiana			Census Tract 9538, Dubois County, Indiana		
	Total	Below poverty level	Percent below poverty level	Total	Below poverty level	Percent below poverty level
Label	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate
Population for whom poverty status is determined	41,649	3,767	9.0%	5,624	999	17.8%
AGE						
Under 18 years	10,419	1,268	12.2%	1,859	313	16.8%
Under 5 years	2,814	207	7.4%	412	114	27.7%
5 to 17 years	7,605	1,061	14.0%	1,447	199	13.8%
Related children of householder under 18 years	10,378	1,227	11.8%	1,859	313	16.8%
18 to 64 years	24,610	1,894	7.7%	2,960	503	17.0%
18 to 34 years	8,040	700	8.7%	1,025	139	13.6%
35 to 64 years	16,570	1,194	7.2%	1,935	364	18.8%
60 years and over	9,866	870	8.8%	1,123	262	23.3%
65 years and over	6,620	605	9.1%	805	183	22.7%
SEX						
Male	20,844	1,506	7.2%	2,792	439	15.7%
Female	20,805	2,261	10.9%	2,832	560	19.8%
RACE AND HISPANIC OR LATINO ORIGIN						
White alone	39,350	3,129	8.0%	4,329	606	14.0%
Black or African American alone	538	100	18.6%	390	0	0.0%
American Indian and Alaska Native alone	117	45	38.5%	45	45	100.0%
Asian alone	300	163	54.3%	164	163	99.4%
Native Hawaiian and Other Pacific Islander alone	0	0	-	0	0	-
Some other race alone	877	330	37.6%	566	185	32.7%
Two or more races	467	0	0.0%	130	0	0.0%
Hispanic or Latino origin (of any race)	3,277	666	20.3%	1,764	295	16.7%
White alone, not Hispanic or Latino	37,565	2,838	7.6%	3,534	541	15.3%
EDUCATIONAL ATTAINMENT						
Population 25 years and over	27,843	2,179	7.8%	3,389	616	18.2%
Less than high school graduate	2,836	457	16.1%	775	200	25.8%
High school graduate (includes equivalency)	10,600	1,005	9.5%	1,288	163	12.7%
Some college, associate's degree	7,658	401	5.2%	937	166	17.7%
Bachelor's degree or higher	6,749	316	4.7%	389	87	22.4%
EMPLOYMENT STATUS						
Civilian labor force 16 years and over	22,982	983	4.3%	2,567	145	5.6%
Employed	22,529	915	4.1%	2,442	145	5.9%
Male	12,085	412	3.4%	1,457	41	2.8%
Female	10,444	503	4.8%	985	104	10.6%
Unemployed	453	68	15.0%	125	0	0.0%
Male	238	31	13.0%	38	0	0.0%
Female	215	37	17.2%	87	0	0.0%
WORK EXPERIENCE						
Population 16 years and over	32,323	2,603	8.1%	3,985	686	17.2%
Worked full-time, year-round in the past 12 months	16,559	421	2.5%	1,922	66	3.4%
Worked part-time or part-year in the past 12 months	7,612	613	8.1%	696	79	11.4%
Did not work	8,152	1,569	19.2%	1,367	541	39.6%
ALL INDIVIDUALS WITH INCOME BELOW THE FOLLOWING						
50 percent of poverty level	1,597	(X)	(X)	250	(X)	(X)

Table Notes

POVERTY STATUS IN THE PAST 12 MONTHS

Survey/Program: American Community Survey

Year: 2019

Estimates: 5-Year

Table ID: S1701

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.

Source: U.S. Census Bureau, 2015-2019 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.

Dollar amounts are adjusted to respective calendar years. For more information, see: Change to Income Deficit.

The 2015-2019 American Community Survey (ACS) data generally reflect the September 2018 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:

An "**" entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

An "-" entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution, or the margin of error associated with a median was larger than the median itself.

An "-" following a median estimate means the median falls in the lowest interval of an open-ended distribution.

An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.

An "***" entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

An "*****" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

An "N" entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

An "(X)" means that the estimate is not applicable or not available.

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.

	COC	AC
US 231 - Drainage Improvements (Des. No. 2101215)	Dubois County, Indiana	Census Tract 9538, Dubois County, Indiana
LOW-INCOME		
Total Population for whom poverty status is determined (estimated)	41,649	5,624
Total Population Below Poverty Level (estimated)	3,767	999
Percent low-income	9.0%	17.8%
125 percent of COC	11.3%	
Potential Low-income EJ Impact?		Yes
MINORITY		
Total Population (all races)	43,637	5,727
Not Hispanic or Latino: White alone	38,864	4,108
Number Non-white/Minority (B03002)	4,040	135
Percent Non-White/Minority	10.9%	28.3%
125 percent of COC	13.7%	
Potential Low-income EJ Impact?		Yes

Sources:

Demographics information based on data from the U.S. Census Bureau's 2015-2019 American Community Survey 5-year Summary (ACS). Data accessed by HNTB Corporation staff May 2021

Dan Logsdon

From: Fair, Terri <TFair@indot.IN.gov>
Sent: Monday, July 25, 2022 11:26 AM
To: Dan Logsdon
Cc: Ross, Anthony
Subject: EJ Analysis for US 231 Drainage Improvements (Des. No. 2101215)
Attachments: Ej Analysis_Des 2101215_07_25_2022.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

INDOT-Environmental Services Division (ESD) has reviewed the project information along with the Environmental Justice (EJ) Analysis for the above referenced project. With the information provided, the project may require minimal right-of-way, require no relocations, and would not disrupt community cohesion or create a physical barrier. With the information provided, INDOT-ESD would not consider the impacts associated with this project as causing a disproportionately high and adverse effect on minority and/or low-income populations of EJ concern relative to non-EJ populations in accordance with the provisions of Executive Order 12898 and FHWA Order 6640.23a. No further EJ Analysis is required.