# Appendix F

Water Resources

Des. No. 1900333

## Waters of the U.S. Determination

SR 26 in Tippecanoe County, Indiana Small Structure Project, 4.98 Miles West of US 52/231 Designation Number: 1900333 Asset Name: CV 026-079-28.10

Prepared by:

Kirk Roth <u>kroth@corradino.com</u> 317-488-2363 Corradino, LLC

September 19, 2022

## 1. Project Information

#### Dates of Field Reconnaissance:

Field work for this report was conducted on September 1 and September 14, 2021 and September 14, 2022 by Corradino, LLC.

#### **Project Location:**

Otterbein Quadrangle Sections 7 and 18, Township 23 North, Range 5 West Tippecanoe County, Indiana Coordinates: 40.44609, -87.02433

#### **Project Description:**

This project is located on SR 26, 4.98 miles west of US 52/231, at structure CV 026-079-28.10. SR 26 crosses Goose Creek within the project area. The structure location is shown on the attached Aerial and Photo Key Maps and illustrated in photos 1-6, 11-12, and 19 in the Photo Log. The existing twin concrete box structures are each 296 feet long with an 84-inch span and 84-inch rise. The project will replace the existing structures with a single span precast reinforced concrete three-sided structure. To provide access on the outlet side of the structure for future inspection and maintenance work, a new access road approximately 900 feet in length will be constructed on the existing fill slopes of SR 26. Incidental work will include approximately 400 feet of asphalt replacement, milling and resurfacing to tie the new pavement into the existing. Scour protection (riprap on geotextiles) will be placed at the inlet, along the structure, and at the outlet in accordance with INDOT Standard Drawings. The project area is surrounded by wooded terrain.

## 2. Desktop Reconnaissance

#### Soils

According to the Soil Survey Geographic (SSURGO) Database for Tippecanoe County, Indiana, the project area does contain soil areas with nationally listed hydric soils. The soil at the west and east ends of the project area is Strawn-Rodman Complex (SyF), with Ouiatenon Loamy Sand (Ox) in the central section. Richardville Silt Loam (RdB2) is at the western tip of the project area north of SR 26.



Soil Unit Name	Symbol	NRCS Flooding Frequency	NRCS Drainage Class	NRCS Hydric Soil Category	SSURGO Hydric Rating	
Ouiatenon Loamy Sand	Ox	Occasional	Somewhat Excessively Drained	Predominantly Nonhydric	3% Hydric	
Strawn-Rodman Complex	SyF	None	Well Drained	Nonhydric	0% Hydric	
Richardville Silt Loam	RdB2	None	Well Drained	Nonhydric	0% Hydric	

## National Wetland Inventory Information

Wetland/Water Feature Name	Location
PF01A	205 feet north
PF01A	387 feet south

## National Hydrography Dataset Information

12-digit Hydrologic Unit – 051201080501

Reach Code	Flowline Type	Stream Name	Mapped Location
05120108000970	Stream/River	Goose Creek	Project structure, extending north and south
05120108002439	Stream/River	UNT1 to Goose Creek	50 feet north of project structure, extending east
05120108029128	Stream/River	UNT2 to Goose Creek	150 feet north of project structure, extending west
05120108022763	Canal/Ditch	UNT3 to Goose Creek	165 feet south of project structure, extending west

#### Attached Documents:

- Project Location Map
- Topographic Map
- Aerial Map
- Water Resources Map
- National Hydrography Dataset (NHD) and National Wetland Inventory (NWI) Map
- IDNR Floodplain Analysis and Regulatory Assessment (FARA)



- StreamStats Report
- Soils Map
- Photo Key and Photo Log
- Wetland Determination Data Sheet
- Preliminary Jurisdictional Determination

## 3. Field Reconnaissance

Site reconnaissance was conducted on September 1 and September 14, 2021 and September 14, 2022 by Corradino, LLC.

#### Stream Analysis

#### Goose Creek

The project structure CV 026-079-28.10 is associated with the perennial Goose Creek, which eventually encounters Indian Creek, and the navigable Wabash River. Structure CV 026-079-28.10 carries Goose Creek under SR 26. Within the project area, Goose Creek flows south and drains the surrounding wooded area. During the site inspection, shallow flowing water was present, as well as an Ordinary High Water Mark (OHWM). Goose Creek is believed to be perennial due to its large size, robust water flow, and perennial status on USGS Topographic Maps. Riprap is not present in the channel. Stream quality is considered excellent due to the natural state of the creek, low turbidity, presence of abundant aquatic fauna and the presence of extensive complexity such as run/riffle complexes and variable substrate size. The OHWM was approximately 16 feet wide and 0.25 foot deep at a location approximately 40 feet south of the project structure. The StreamStats website (<u>https://streamstats.usgs.gov/ss/</u>) shows the area of Goose Creek to be 6.037 square miles at the project location. There are 701 linear feet of Goose Creek within the investigative area.

Goose Creek exhibited a well-defined bed and bank. All banks of Goose Creek were steep and there were no wetland hydrology characteristics above the OHWM. Upland vegetation dominated the areas beyond the banks, especially facultative upland *Lonicera maackii*, and also including facultative upland *Juniperus virginiana*, *Juglans nigra*, *Acer saccharum*, *Tilia americana*, *Cercis canadensis*, *Lonicera tatarica*, *Parthenocissus quinquefolia*, *Cardamine concatenata*, *Asarum canadense*, the facultative *Platanus occidentalis*, and the facultative wetland *Equisetum hyemale* and *Verbesina alternifolia*. Facultative and facultative wetland species were fewer in density than the facultative upland species. Wetland characteristics did not extend beyond the OHWM of Goose Creek and therefore any wetland characteristics are considered a feature of Goose Creek and not a separate feature. Goose Creek is listed as a stream/river in the USGS National Hydrography Dataset. It is likely that Goose Creek is a Water of the U.S. due to its apparent connectivity with the Wabash River.

#### UNT1 to Goose Creek

In the northeast quadrant of the project area, an intermittent drainage with an OHWM and bed and bank structure contacts Goose Creek. This drainage is approximately 50 feet north of project structure CV 026-079-28.10. For the purposes of this report, this drainage is referred to as UNT1 to Goose Creek. Within the project area, UNT1 to Goose Creek flows west and drains the adjacent wooded area. During the site inspection, shallow flowing water was present. Riprap is not present in the channel. Due to the natural



state of the creek, but the small size and lack of run/riffle complexes or other cover features, UNT1 to Goose Creek is considered average stream quality. The OHWM was approximately 2.0 foot wide and 0.25 foot deep at a point 25 feet east of Goose Creek. UNT1 to Goose Creek appeared intermittent due to its small size, flowing water, and representation on USGS Topography Maps. The location of UNT1 to Goose Creek appears to be modified by the construction SR 26 and appears different than the mapped tributary on the USGS Topographic Map. UNT1 to Goose Creek is identified as a blue line stream but its drainage area cannot be mapped using the StreamStats website, perhaps due to this modification. StreamStats shows the area of UNT1 to Goose Creek to be included within the 6.037 square mile basin of Goose Creek. Approximately 265 linear feet of UNT1 to Goose Creek occur within the investigative area.

UNT1 to Goose Creek exhibited a well-defined bed and bank. No dominant vegetation was found within the OHWM and wetland hydrology characteristics were not observed outside the banks. Dominant vegetation along the banks included the facultative upland *Celtis occidentalis, Liriodendron tulipifera, Cornus florida, Lonicera maackii, Rubus allegheniensis, Solidago canadensis, Cardamine concatenata,* and the facultative wetland *Rudbeckia laciniata*. Wetland characteristics did not extend beyond the OHWM of UNT1 to Goose Creek and therefore any wetland characteristics are considered a feature of UNT1 to Goose Creek and not a separate feature. UNT1 to Goose Creek is listed as a stream/river in the USGS National Hydrography Dataset. It is likely that UNT1 to Goose Creek is a Water of the U.S. due to its apparent connectivity with the Wabash River.

#### UNT2 to Goose Creek

In the northwest quadrant of the project area, an ephemeral drainage with an OHWM and bed and bank structure contacts Goose Creek. This drainage is approximately 150 feet north of project structure CV 026-079-28.10. For the purposes of this report, this drainage is referred to as UNT2 to Goose Creek. Within the project area, UNT2 to Goose Creek flows east and drains the adjacent wooded area. During the site inspection, no water was present. Riprap is not present in the channel. Due to the natural state of the creek, but small size and lack of run/riffle complexes or other cover features, UNT2 to Goose Creek is considered average stream quality. The OHWM was approximately 9 foot wide and 0.75 foot deep at a point 25 feet west of Goose Creek. UNT2 to Goose Creek appeared ephemeral due to its small size and dry status while the nearby creeks had water. UNT2 to Goose Creek may be subject to fast, heavy drainage of the nearby hillslopes that it drains, as evidenced by its larger depth than other tributaries in the project area and the apparent lack of substantial silt. UNT2 to Goose Creek is not identified as a blue line stream and therefore its drainage area cannot be mapped using the StreamStats website. StreamStats shows the area of UNT2 to Goose Creek to be included within the 6.037 square mile basin of Goose Creek. Approximately 349 linear feet of UNT2 to Goose Creek occur within the investigative area.

UNT2 to Goose Creek exhibited a well-defined bed and bank. No dominant vegetation was found within the OHWM and the banks did not exhibit wetland hydrology characteristics. Dominant plants at and along the banks were the facultative upland *Juglans nigra, Acer saccharum, Tilia americana, Cercis canadensis, Lonicera tatarica, Parthenocissus quinquefolia, Asarum canadense,* and *Cardamine concatenata*. Wetland characteristics did not extend beyond the OHWM of UNT2 to Goose Creek and therefore any wetland characteristics are considered a feature of UNT2 to Goose Creek and not a separate feature. UNT2 to Goose Creek is listed as a canal/ditch in the USGS National Hydrography Dataset. It is likely that UNT2 to Goose Creek is a Water of the U.S. due to its apparent connectivity with the Wabash River.

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#### UNT3 to Goose Creek

In the southwest quadrant of the project area, an ephemeral drainage with an OHWM and bed and and structure contacts Goose Creek. This drainage is approximately 60 feet south of project structure CV 026-079-28.10. For the purposes of this report, this drainage is referred to as UNT3 to Goose Creek. Within the project area, UNT3 to Goose Creek flows east and drains the adjacent roadside and wooded area. During the site inspection, no water was present. Riprap is present in the channel beginning approximately 70 feet from Goose Creek. Areas of erosion occur along much of UNT3 to Goose Creek due to its location against the steep slope leading to SR 26. , Due to the unnatural state of the creek, erosion, small size, and lack of run/riffle complexes or other cover features, UNT3 to Goose Creek is considered poor stream quality. The OHWM was approximately 2.0 foot wide and 0.25 foot deep at a point 15 feet west of Goose Creek, which was unaffected by erosion or riprap. UNT3 to Goose Creek appeared ephemeral due to its small size and dry status while the nearby creeks had water. UNT3 to Goose Creek is not identified as a blue line stream and therefore its drainage area cannot be mapped using the StreamStats website. StreamStats shows the area of UNT2 to Goose Creek to be included within the 6.037 square mile basin of Goose Creek. Approximately 373 linear feet of UNT3 to Goose Creek occur within the investigative area.

UNT3 to Goose Creek exhibited a well-defined bed and bank for approximately 70 feet from Goose Creek, and a moderately-defined bad and bank for a further 300 feet, where it is lined with riprap. Bed and bank structure eventually ends within the investigative area. Where the riprap begins, upland plants, especially *Lonicera maackii*, are sparse but dominant within the channel. Facultative upland plants including *Rubus allegheniensis*, *Glechoma hederacea* and *Solidago canadensis* are dominant downstream of the riprap area. The banks did not exhibit wetland hydrology characteristics. Dominant plants at and along the banks were the upland *Lonicera maackii*, facultative upland *Juglans nigra*, *Robinia pseudoacacia*, *Tilia americana*, *Cercis canadensis*, *Lonicera tatarica*, *Parthenocissus quinquefolia*, *Robinia pseudoacacia*, and *Solidago canadensis* and facultative *Verbesina alternifolia*. Wetland characteristics were not found in or near the OHWM of UNT3 to Goose Creek. UNT3 to Goose Creek is listed as a canal/ditch in the USGS National Hydrography Dataset. It is likely that UNT3 to Goose Creek is a Water of the U.S. due to its apparent connectivity with the Wabash River.

Stream Name	Photos	Lat/Long	OHW Width (feet)	OHW Depth (feet)	USGS Blue-line?	Riffles? Pools?	Substrate	Quality	Likely Water of U.S.?
Goose Creek	1-17; 23-24	40.445474 -87.024085	16	0.25	Yes (Perennial)	Yes	Silt, Sand, Pebbles, Cobbles, Boulders	Excellent	Yes
UNT1 to Goose Creek	18-22	40.446344 -87.023444	2.0	0.25	Yes (Intermittent)	No	Silt, Sand, Pebbles	Average	Yes
UNT2 to Goose Creek	25-30	40.447003 -87.024476	9.0	0.75	No (Ephemeral)	No	Sand, Pebbles, Cobbles, Boulders	Average	Yes
UNT3 to Goose Creek	31-36; 65-66	40.445554 -87.024138	2.0	0.25	No (Ephemeral)	No	Silt, Sand, Pebbles, Boulders (Riprap)	Poor	Yes

#### Table 1 – Stream Summary, SR 26, Tippecanoe County, Indiana, Designation Number 1900333



#### Wetland Analysis

The site was investigated for potential wetland characteristics. The only wetland hydrology features were confined to the OHWM of Goose Creek, UNT1 to Goose Creek, UNT2 to Goose Creek and UNT3 to Goose Creek. Most of the investigative area outside these creek beds is comprised of steep hill slopes or fill from SR 26. Upland plant species were predominant throughout the investigative area, especially facultative upland *Juglans nigra, Acer saccharum* in the forested areas, and *Robinia pseudoacacia, Solidago canadensis*, and *Schedonorus arundinaceus* downslope from SR 26. Upland *Lonicera maackii* was dominant in all except mowed areas. The facultative *Platanus occidentalis*, and the facultative wetland *Equisetum hyemale, Verbesina alternifolia,* and *Rudbeckia laciniata* were found in densities that would register as dominant in wetland delineation, but in each location they were outnumbered by facultative upland species.

A temporarily flooded broad-leaved deciduous palustrine forested (PFO1A) NWI Wetland is mapped approximately 200 feet north of the project structure CV 026-079-28.10 and immediately north of UNT2 to Goose Creek. A wetland determination data point, named UPL-1 (Photo 67 and 68), was taken in this area. Dominant vegetation included the upland *Lonicera maackii*, facultative upland *Juglans nigra, Tilia americana, Asarum canadense,* and the facultative *Smilax rotundifolia.* The Dominance Test and Prevalence Index did not indicate a hydrophytic vegetation regime. No hydric soil indicators and no wetland hydrology indicators were found. This area experienced substantial change after the construction of SR 26, as indicated by USGS Topographic maps.

Because no locations outside the tributaries were found with wetland hydrology indicators or hydrophytic vegetation, no wetlands were identified within the investigative area.

#### Roadside Ditch Analysis

#### <u>RSD1 (photos 37-47)</u>

A roadside ditch occurs in the northwest quadrant of the project area and is referred to as RSD2 in this document. RSD2 has a bed and bank structure but does not exhibit an OHWM and drains into Goose Creek north of the project structure. RSD2 is dominated by upland and facultative upland plants such as *Lonicera maackii, Juglans nigra, Parthenocissus quinquefolia, Ageratina altissima, Sanicula canadensis* and *Solidago canadensis,* with facultative wetland *Verbesina alternifolia* in shaded areas. The vegetation present does not support wetland status. Away from Goose Creek, the bed of RSD2 is predominantly riprap. RSD2 drains the nearby roadside and forested area.

Due to the lack of an OHWM, RSD2 does not exhibit characteristics of a tributary. Because RSD2 is not a wetland or tributary, it is not likely a Water of the U.S.



## 4. Summary and Conclusions

As running waterways directly traceable to the Wabash River, Goose Creek, UNT1 to Goose Creek, UNT2 to Goose Creek, and UNT3 to Goose Creek within the project area are apparent jurisdictional Waters of the U.S. The jurisdictional area in the project area would extend to the limits of the OHWM of the channel on all the banks of all tributaries.

RSD1 is a non-jurisdictional feature within the study area.

There were no areas with wetland characteristics within the study area.

No bat or bird use of the bridge was detected during the September 1, 2021, September 14, 2021 or September 14, 2022 survey.

This waterway is a likely Water of the U.S. Every effort should be taken to avoid and minimize impacts to the waterway. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

#### Acknowledgement:

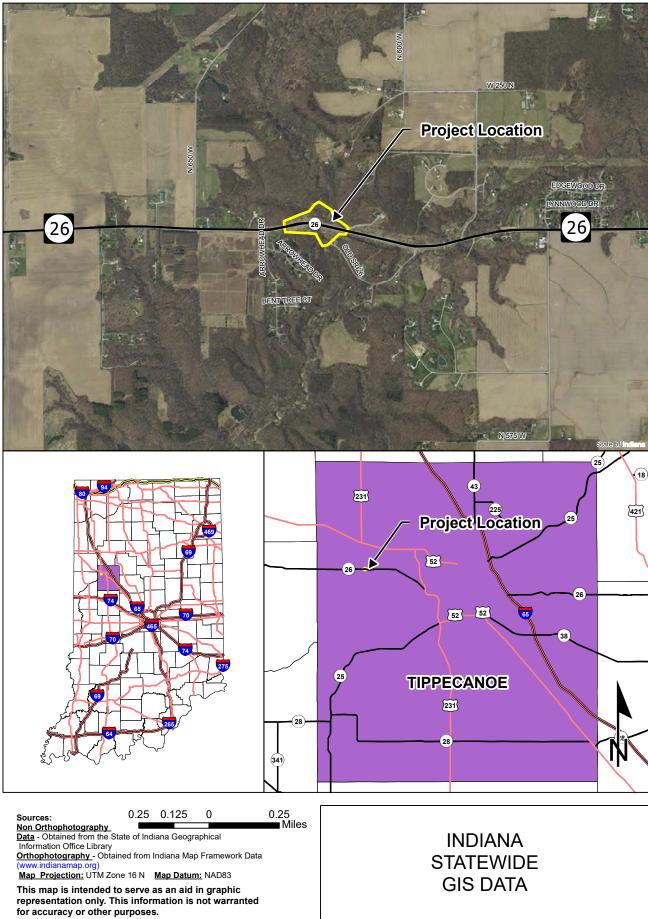
This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience and professional judgement in conformance with the 1987 Corps of Engineers Wetlands Delineation Manual, the appropriate regional supplement, the USACE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

Kirk Roth

Environmental Scientist Corradino, LLC September 19, 2022

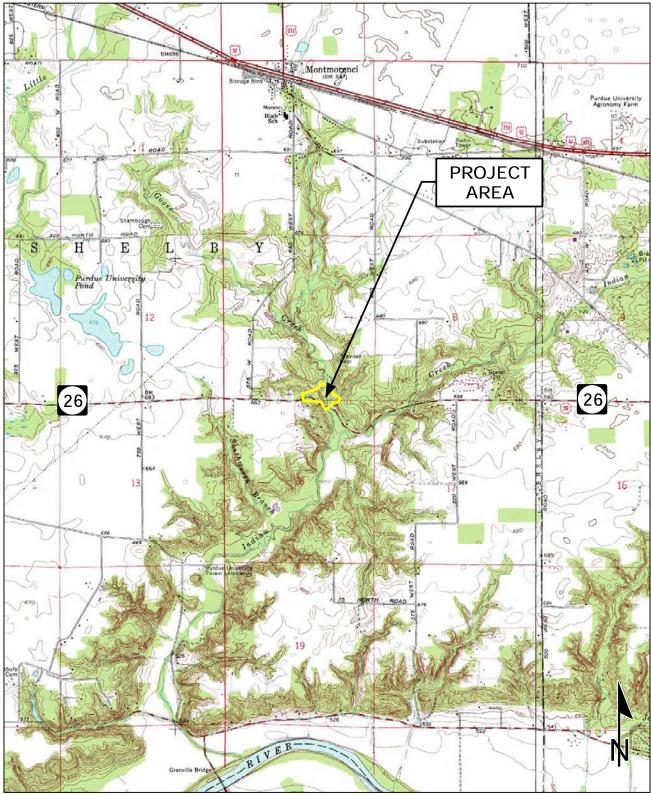






Appendix F-10

## USGS Topographic Map SR 26, 4.98 Miles West of US 52/231 Des. No. 1900333, Small Structure Replacement Tippecanoe County, Indiana



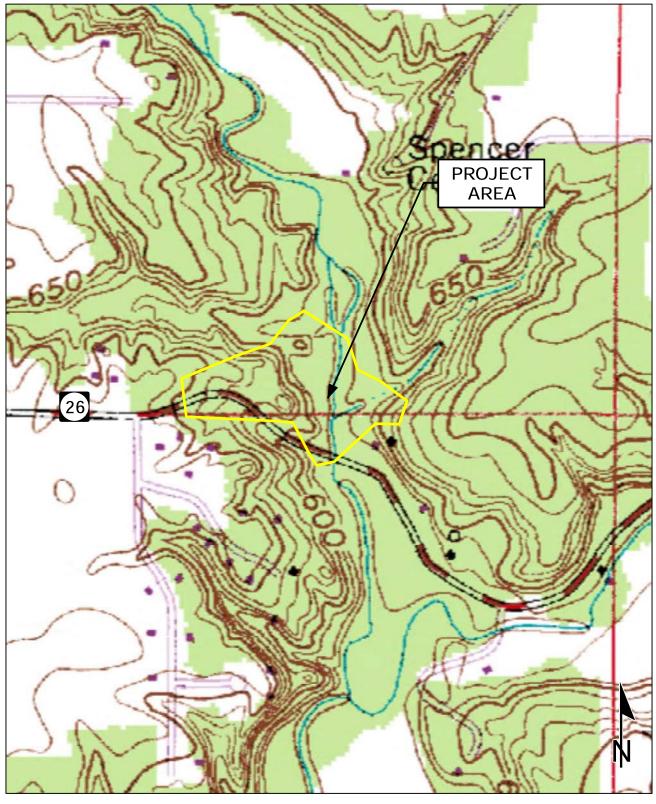
0.6

Miles

Sources: 0.6 0.3 0 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.

OTTERBEIN QUADRANGLE INDIANA 7.5 MINUTE SERIES (TOPOGRAPHIC) USGS Topographic Map SR 26, 4.98 Miles West of US 52/231 Des. No. 1900333, Small Structure Replacement Tippecanoe County, Indiana



0.1 Miles

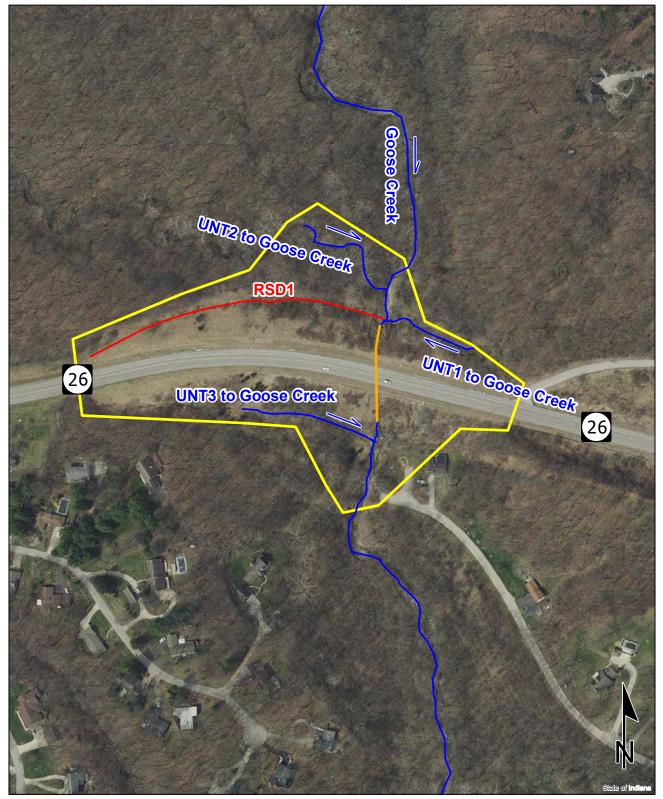
Sources: 0.1 0.05 0 Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library Orthophotography - Obtained from Indiana Map Framework Data

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.

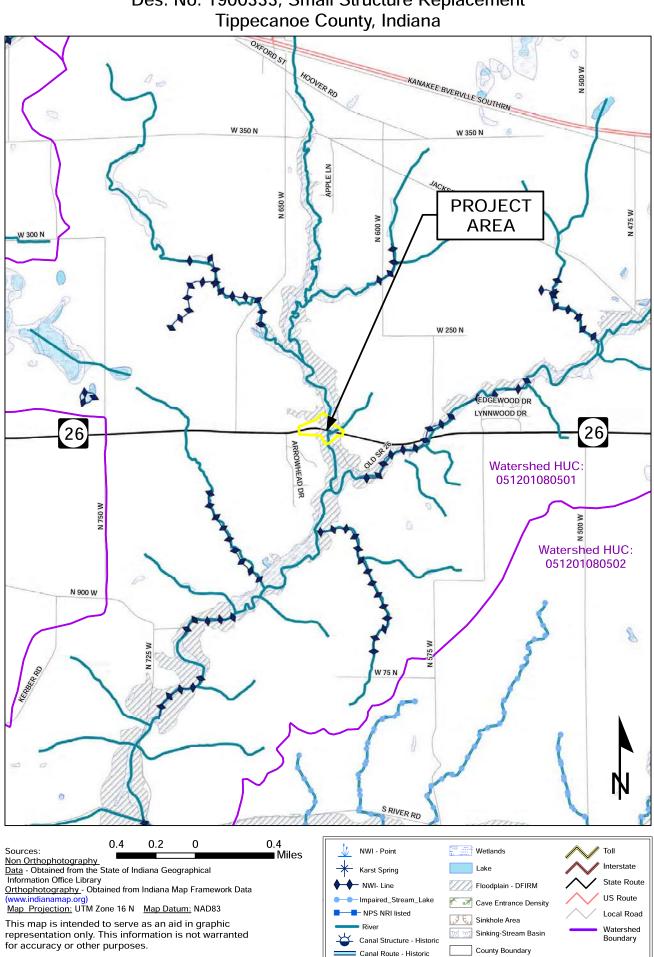
OTTERBEIN QUADRANGLE INDIANA 7.5 MINUTE SERIES (TOPOGRAPHIC)

## Aerial Map SR 26, 4.98 Miles West of US 52/231 Des. No. 1900333, Small Structure Replacement Tippecanoe County, Indiana



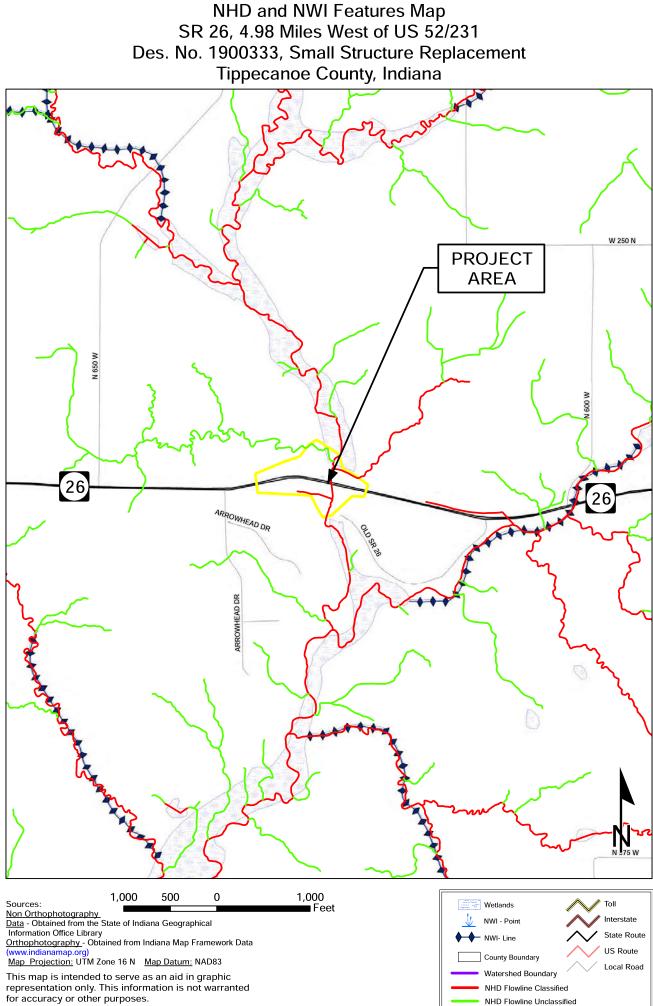
Sources: 250 125 0 Non Orthophotography	250 Feet	INDIANA STATEWIDE
Data - Obtained from the State of Indiana Geographical Information Office Library		AERIAL IMAGERY
Orthophotography - Obtained from Indiana Map Framework Data		
(www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83		Legend FLOWN 2016
This map is intended to serve as an aid in graphic		
representation only. This information is not warranted		Tributary Investigative Are
for accuracy or other purposes.		Culvert

L IMAGERY WN 2016 Roadside Ditch Investigative Area

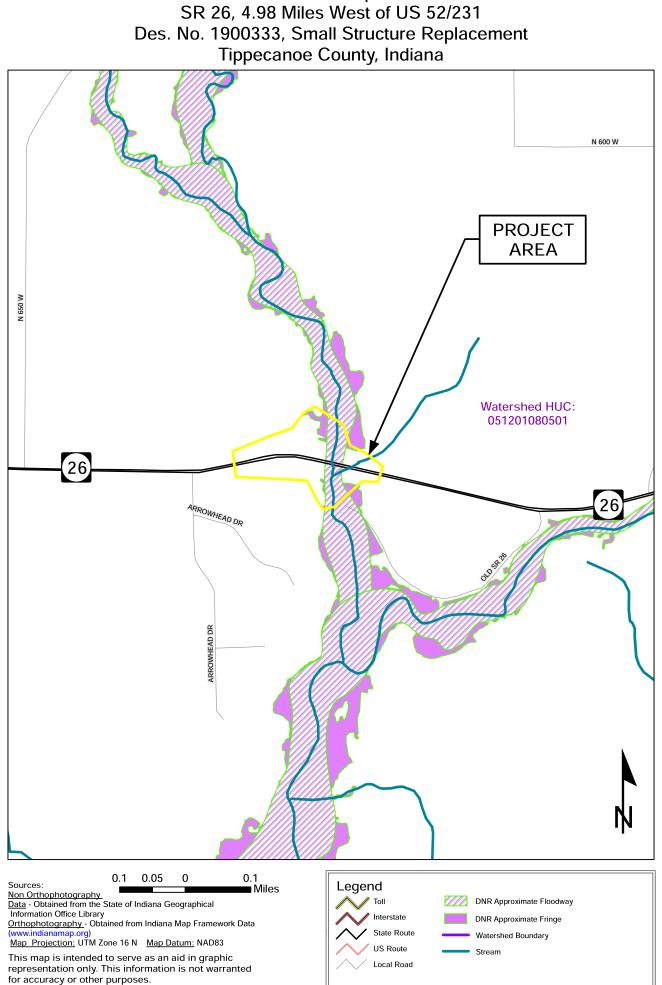


ppendix F-14

Water Resources Map SR 26, 4.98 Miles West of US 52/231 Des. No. 1900333, Small Structure Replacement Tippecanoe County, Indiana



Appendix F-15



**FARA Map** 

Appendix F-16

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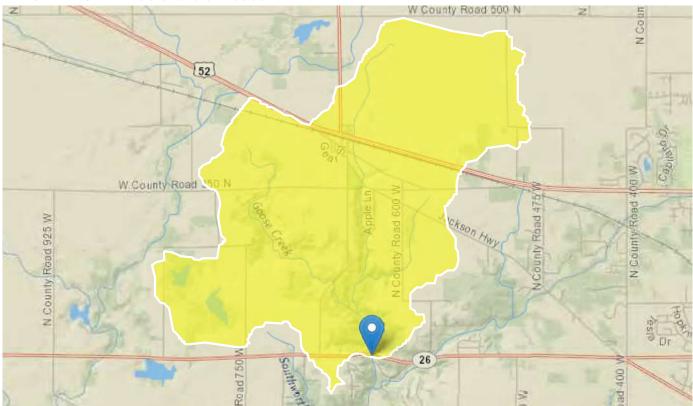
# **StreamStats Report**

 Region ID:
 IN

 Workspace ID:
 IN20211108141619243000

 Clicked Point (Latitude, Longitude):
 40.44592, -87.02401

 Time:
 2021-11-08 09:16:39 -0500



Basin	Characteristics	
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Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	6.037	square miles
K2INDNR	Average hydraulic conductivity (ft/d) for the full depth of unconsolidated deposits from InDNR well database.	43	ft per day
QSSPERMTHK	Index of the permeability of surficial Quaternary sediments computed as in SIR 2014-5177	293.28	dimensionless
LOWREG	Low Flow Region Number	1729	dimensionless
T2INDNR	Average transmissivity (ft2/d) for the full depth of unconsolidated deposits from InDNR well database.	3352	square feet per day <sub>Appendix F-17</sub>

Parameter Code	Parameter Description	Value	Unit
LC01FOREST	Percentage of forest from NLCD 2001 classes 41-43	21.1	percent

#### General Flow Statistics Parameters [Harmonic Mean Central Region 2016 5102]

Parameter Code	Parameter Name	Value	Units		Max Limit
DRNAREA	Drainage Area	6.037	square miles	2.99	828
K2INDNR	Avg_Hydraulic_Conductivity_Full_Depth	43	ft per day	6.36	45.9
QSSPERMTHK	Permeability_Index	293.28	dimensionless	43.8	5400
LOWREG	Low Flow Region Number	1729	dimensionless		

General Flow Statistics Flow Report [Harmonic Mean Central Region 2016 5102]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	Plu	ASEp
Harmonic Mean Streamflow	1.78	ft^3/s	0.917	3.46	39.3

General Flow Statistics Citations

Martin, G.R., Fowler, K.K., and Arihood, L.D.,2016, Estimating selected low-flow frequency statistics and harmonic-mean flows for ungaged, unregulated streams in Indiana (ver 1.1, October 2016): U.S. Geological Survey Scientific Investigations Report 2016–5102, 45 p. (http://dx.doi.org/10.3133/sir20165102)

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## Soils Map SR 26, 4.98 Miles West of US 52/231 Des. No. 1900333, Small Structure Replacement Tippecanoe County, Indiana



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

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SOILS DATA

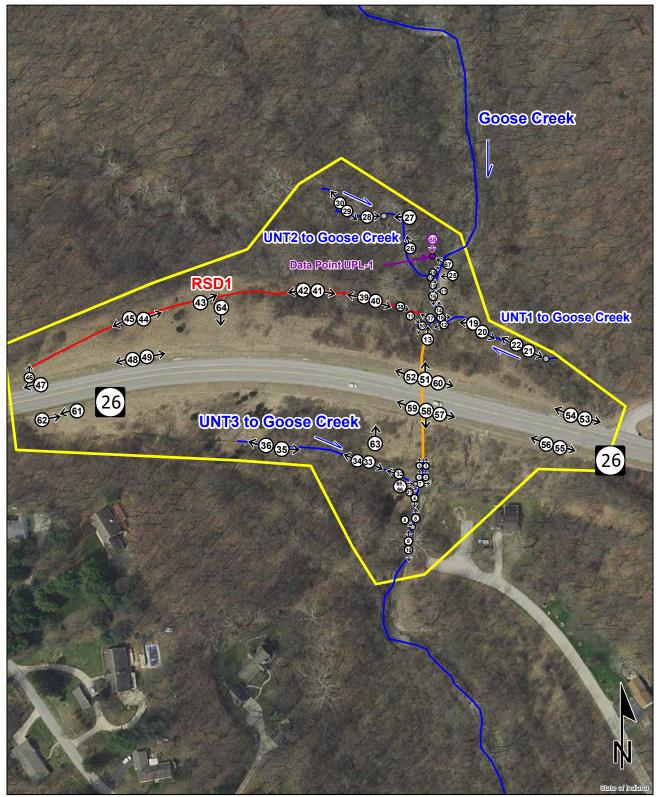
Legend

Ox = Ouiatenon Sandy Loam, 3% hydric RdB2 = Richardville Silt Loam, 0% Hydric SyF = Strawn-Rodman Complex, 0% hydric

NRCS

Appendix F-19

## Photo Key Map SR 26, 4.98 Miles West of US 52/231 Des. No. 1900333, Small Structure Replacement Tippecanoe County, Indiana

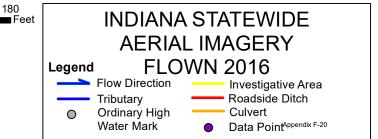


 Sources:
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 Non Orthophotography
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 Obtained from the State of Indiana Geographical Information Office Library
 Orthophotography
 Obtained from Indiana Map Framework Data

 (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.





Picture 1—Goose Creek upstream and west project structureCV 026-079-28.10 , north view; 1 SEP 2021.



Picture 3—Goose Creek east project structure CV 026-079-28.10 ; north view; 1 SEP 2021.



Picture 2— Goose Creek upstream and detached project culvert CV 026-079-28.10 piece; north view; 1 SEP 2021.



Picture 4—Goose Creek west structure CV 026-079-28.10 ; north view; 1 SEP 2021.



Picture 5—Goose Creek upstream and project structure CV 026-079-28.10 ; north view; 1 SEP 2021.



Picture 7—East slope from Goose Creek; east view; 1 SEP 2021.



Picture 6—Goose Creek downstream view from structure; south view; 1 SEP 2021.



Picture 8—Goose Creek OHWM measurement; southeast view; 1 SEP 2021. OHWM : 40.445474; -87.024085 Width 16 feet; Depth 0.25 foot



Picture 9—Goose Creek upstream; north view; 1 SEP 2021.



Picture 10—Goose Creek downstream; south view; 1 SEP 2021.



Picture 11—Goose Creek debris north of structure CV 026-079-28.10 inlet; southeast view; 14 SEP 2021. Note that steel beams have collected debris.



Picture 12— Goose Creek structure CV 026-079-28.10 inlet; southwest view; 1 SEP 2021. Note that culvert end pieces have detached.



Picture 13—Goose Creek upstream including debris; north view; 1 SEP 2021.



Picture 15—Goose Creek downstream; south view; 1 SEP 2021.



Picture 14—Goose Creek upstream; north view; 1 SEP 2021.



Picture 16—Goose Creek downstream; south view; 1 SEP 2021.



Picture 17—Goose Creek slope ; west view; 1 SEP 2021.



Picture 19—UNT1 to Goose Creek at Goose Creek; west view; 1 SEP 2021.



Picture 18—UNT1 to Goose Creek from Goose Creek; east view; 1 SEP 2021.



Picture 20—UNT1 to Goose Creek upstream; southeast view; 1 SEP 2021.



Picture 21—UNT1 to Goose Creek upstream and OHWM location; southeast view; 1 SEP 2021. OHWM : 40.446344; -87.023444 Width 2.0 feet; Depth 0.25 foot



Picture 23—Goose Creek from UNT2 to Goose Creek; southeast view; 14 SEP 2021.



Picture 22—UNT1 to Goose Creek downstream; northwest view; 1 SEP 2021.



Picture 24—Goose Creek from UNT2 to Goose Creek ; northeast view; 14 SEP 2021.

Appendix F-26



Picture 25—UNT2 to Goose Creek from Goose Creek; west view; 14 SEP 2021.



Picture 27—UNT2 to Goose Creek upstream; west view; 14 SEP 2021.



Picture 26—UNT2 to Goose Creek upstream; northwest view; 14 SEP 2021.



Picture 28—UNT2 to Goose Creek downstream and OHWM location; east view; 14 SEP 2021. OHWM : 40.447003; -87.024476 Width 9.0 feet; Depth 0.75 foot



Picture 29—UNT2 to Goose Creek downstream; southeast view; 14 SEP 2021.



Picture 30—UNT2 to Goose Creek upstream bed and bank becomes obscure in this area; northwest view; 14 SEP 2021.



Picture 31—Goose Creek from UNT3 to Goose Creek ; northeast view; 1 SEP 2021.



Picture 32—UNT3 to Goose Creek from Goose Creek; northwest view; 1 SEP 2021.



Picture 33—UNT3 to Goose Creek downstream—note that bed and bank structure begins to obscure; southeast view; 1 SEP 2021.



Picture 35—UNT3 to Goose Creek downstream from end of bed and bank structure—note riprap; east view; 1 SEP 2021.



Picture 34—UNT3 to Goose Creek upstream note large shrubs (*Lonicera*) within bed; northwest view; 1 SEP 2021.



Picture 36—UNT3 to Goose Creek end of bed and bank structure—note riprap; west view; 1 SEP 2021.



Picture 37—RSD1 at Goose Creek; northwest view; 1 SEP 2021.



Picture 39—RSD1 vegetated area; northwest view; 1 SEP 2021.



Picture 38—RSD1 toward Goose Creek; southeast view; 1 SEP 2021.



Picture 40—RSD1 sparsely vegetated area; southeast view; 1 SEP 2021.



Picture 41—RSD1 riprap area—note mediumsized tree (*Juglans*) in bed; southeast view; 1 SEP 2021.



Picture 43—RSD1 riprap from open area; northeast view; 1 SEP 2021.



Picture 42—RSD1 riprap area; southwest view; 1 SEP 2021.



Picture 44—RSD1 open area; northeast view; 1 SEP 2021.



Picture 45—RSD1 open area; southwest view; 1 SEP 2021.



Picture 46—RSD1 from SR 26; north view; 1 SEP 2021.



Picture 47—SR 26 roadside from RSD1 end ; southwest view; 1 SEP 2021.



Picture 48—SR 26 roadside northwest quadrant; southwest view; 1 SEP 2021.



Picture 49—SR 26 roadside northwest quadrant; northeast view; 1 SEP 2021.



Picture 51—Project center north of SR 26; north view; 1 SEP 2021.



Picture 50—Eroded area west of the Goose Creek structure CV 026-079-28.10 inlet. Erosion is extensive upslope to SR 26; southwest view; 1 SEP 2021.



Picture 52—Project center north of SR 26; northwest view; 1 SEP 2021.



Picture 53—SR 26 roadside northeast quadrant and drive; southeast view; 1 SEP 2021.



Picture 54—SR 26 roadside northeast quadrant; northwest view; 1 SEP 2021.



Picture 55— SR 26 roadside southeast quadrant; southeast view; 1 SEP 2021.



Picture 56—SR 26 roadside southeast quadrant; northwest view; 1 SEP 2021.



Picture 57—Project center south of SR 26; east view; 1 SEP 2021.



Picture 58—Project center south of SR 26; south view; 1 SEP 2021.



Picture 59—Project center south of SR 26; west view; 1 SEP 2021.



Picture 60—Project center north of SR 26; southeast view; 1 SEP 2021.



Picture 61—SR 26 roadside southwest quadrant; southwest view; 1 SEP 2021.



Picture 62—SR 26 roadside southwest quadrant; northeast view; 1 SEP 2021.



Picture 63—Southwest quadrant slope; north view; 1 SEP 2021.



Picture 64—Northwest quadrant slope; south view; 1 SEP 2021.

#### DES# 1900333 Waters of the U.S. Determination Report—Photo Log



Picture 65—UNT3 to Goose Creek at the junction with Goose Creek; east view; 14 SEP 2022.



Picture 67—UPL-1 data point; northwest view; 14 SEP 2022.



Picture 66—UNT3 to Goose Creek OHWM location; east view; 14 SEP 2022. OHWM : 40.445554 -87.024138 Width 2.0 feet; Depth 0.25 foot



Picture 68—UPL-1 soil sample ; 14 SEP 2022.

40.446740 -87.024022

#### WETLAND DETERMINATION DATA FORM – Midwest Region

Investigator(s): Kirk Roth Section, Township, Range: Section 7, Township 23 N, Range 5 W Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Convex	Project/Site: <u>DES 1900333 - SR 26</u>		City/Cou	nty: <u>Tippeca</u>	anoe	Samp	ling Date:	9-14	-22
Landform (hillside, terrace, etc.): Terrace         Local relief (concave, convex, none): Convex           Shop (%): 1         L Lit: 40.446740         Long: -87.024022         Datum: MADB3           Sold Map Unit Name: Ouldation Loamy Sand         NWI destification: PF01A         Net destification: PF01A           Are Vegetation	Applicant/Owner: INDOT				State:IN	Samp	ling Point:	U	PL-1
Sibe (%):       1       Lat:       40.446740       Long:       87.024022       Datum: MAD83         Sold Map Unit Name:       Outation Learny Sand       NVMI classification: PE01A         Are climatic / hydrologic conditions on the site typical for this time of year?       Yes X       No (fi no, explain in Remarks.)         Are Vegetation Soll or Hydrologyinaturally problematic?       (if needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       YesNo         Wedland Hydrology Present?       YesNo         No       Is the Sampled Area within a Wetland?       YesNo         Remarks       Site characteristics do not support wetland status.       Site characteristics do not support wetland status.       Dominance Test worksheet:       1	Investigator(s): Kirk Roth		Section, T	<sup>r</sup> ownship, Ra	inge: Section 7, To	ownship 23 N	l, Range 5	W	
Sibe (%):       1       Lat:       40.446740       Long:       87.024022       Datum: MAD83         Sold Map Unit Name:       Outation Learny Sand       NVMI classification: PE01A         Are climatic / hydrologic conditions on the site typical for this time of year?       Yes X       No (fi no, explain in Remarks.)         Are Vegetation Soll or Hydrologyinaturally problematic?       (if needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       YesNo         Wedland Hydrology Present?       YesNo         No       Is the Sampled Area within a Wetland?       YesNo         Remarks       Site characteristics do not support wetland status.       Site characteristics do not support wetland status.       Dominance Test worksheet:       1	Landform (hillside, terrace, etc.): Terrace			Local relief (d	concave, convex, no	one): Convex			
Soil Map Unit Name: Outsteron Loamy Sand	Slope (%): 1 Lat: 40.446740		Long: -	87.024022		Datum:	NAD83		
Are dimatic / hydrokojic conditions on the site typical for this time of year?       YesNo	· · · ·		0 _		NWI c				
Are Vegetation		or this time c	f vear?	Yes X		•			
Are Vegetation			•					0	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       Yes       No       X       Is the Sampled Area within a Wetland?       Yes       No       X         Hydrophytic Vegetation Present?       Yes       No       X       within a Wetland?       Yes       No       X         Wetland Hydrobacy Present?       Yes       No       X       within a Wetland?       Yes       No       X         Wetland Hydrobacy Present?       Yes       No       X       Wetland Present?       No       X         Wetland Hydrobacy Present?       Yes       Solution       Present of Dominant Species That       No       X         Tree Stratum       (Plot size:       30 feet       Yes       FACU       Number of Dominant Species That       Are OBL, FACW, or FAC:       1       (A)         3.       Platanus occidentalis       10       No       FACU       Total Number of Dominant Species That       Are OBL, FACW, or FAC:       20.0% (A/B)         4.       Cellis occidentalis       10       Yes       FAC       Total No cover of       Multiply by:       Deminant Species That       Are OBL, FACW, or FAC:       Zon       Zon       FAC       Soles That       Are OBL, FACW, or FAC:<							<u></u> N	°—	-
Hydrophytic Vegetation Present?       Yes       No       X         Hydro Soll Present?       Yes       No       X         Remarks:       Site characteristics do not support wetland status.         VECETATION – Use scientific names of plants.         Tree Stratum       (Plot size: 30 feet )         1. Tille americana       50         2. Judgans ligra       20         3. Platanus occidentalis       10         10       No         FACU         A. Cellis occidentalis       10         10       No         FACU         A. Medoncher arborea       10         10       No         FACU         Sapilind/Shrub Stratum       (Plot size: 15 feet )         1. Asatur canadense       40       Yes         5.       50       FAC         6.       50       FAC         744       50       Yes         5.       50       FAC         742       Sapilind/Shrub Stratum       (Plot size: 15 feet )         1.       Asodorata       10       No         3.       Batury signianus       5       No       FAC         6.       Sapilind/Shrub Sizet and thice an									
Hydric Soil Present?       Yes       No       X       within a Wetland?       Yes       No       X         Remarks:       Site characteristics do not support wetland status.       Site characteristics do not support wetland status.       Dominant Indicator       Dominance Test worksheet:       Image: Site characteristics do not support wetland status.         VEGETATION – Use scientific names of plants.       50       Yes       FACU       Number of Dominant Species That         1. Tilia americana       50       Yes       FACU       Number of Dominant Species That       Across All Strata:       5       6       7       7       6       6       7       7       6       6       6       6       7       7       6       7       7       7       6 <td< td=""><td>SUMMARY OF FINDINGS – Attach site m</td><td>ap showir</td><td>ng samplin</td><td>ig point lo</td><td>cations, transe</td><td>ets, impo</td><td>rtant fea</td><td>atures</td><td>s, etc.</td></td<>	SUMMARY OF FINDINGS – Attach site m	ap showir	ng samplin	ig point lo	cations, transe	ets, impo	rtant fea	atures	s, etc.
Wetland Hydrology Present?         Yes         No         X           Remarks:         Site characteristics do not support wetland status.           VEGETATION – Use scientific names of plants.         Dominant         Indicator           Tree Stratum         (Plot size: 30 feet)         Absolute 50         Dominant Species?         Dominance Test worksheet: Number of Dominant Species That Access All Strata:         Dominant Species That Across All Strata:         Total Number of Dominant Species That Across All Strata:         5         (A)           3.         Detabanchier arborea         10         No         FACU FACU         Total Number of Dominant Species That Across All Strata:         5         (B)           1.         Lonicera maackii         10         No         FACU FAC         Prevalence Index worksheet:         200%         (A/B)           2.         Smilax rotundifolta         10         Yes         FAC         Prevalence Index worksheet:         200%         (A/B)           3.	Hydrophytic Vegetation Present? Yes N	οX	Is the	Sampled A	rea				
Remarks:         Stet characteristics do not support wetland status.         VEGETATION – Use scientific names of plants.         Intere Stratum (Plot size: 30 feet )       Absolute Species?       Status         1. Tile americana       20       Yes       FACU       Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)         3. Platarus occidentalis       10       No       FACU       Across All Stata: 5 (B)         4. Cettrs occidentalis       10       No       FACU       Across All Stata: 5 (B)         23. Platarus occidentalis       10       No       FACU       Across All Stata: 5 (B)         24. Cettrs occidentalis       10       No       FACU       Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)         3. Baling/Shrub Stratum       (Plot size: 15 feet )       10       Yes       FAC         1. Lonicera maackii       40       Yes       FACU       Total % Cover of: Multiply by;         70BL species 10       x1 = 0       FACU species 10       x2 = 20         FACU species 125       x4 = 500       UPL Species 10       x2 = 20         FACU species 125       x4 = 500       UPL Species 10       x1 = 0         1. Asarum canadense       40       Yes       FACU<	Hydric Soil Present? Yes N	0 <u>X</u>	within	n a Wetland	? Yes_	No	X		
Site characteristics do not support wetland status.         VEGETATION – Use scientific names of plants.         Tee Stratum (Plot size: 30 feet )       Absolute Dominant Indicator Species 7         1. Tile americana       50       Yes       FACU       Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)         3. Platanus occidentalis       10       No       FACU       Are OBL, FACW, or FAC: 1 (A)         5. Amelanchier arborea       10       No       FACU       Are OBL, FACW, or FAC: 20.0% (A/B)         3	Wetland Hydrology Present? Yes N	o <u>X</u>							
VEGETATION – Use scientific names of plants.         Tree Stratum (Plot size: 30 feet )       Absolute Species?       Status         1. Tilia americana       So       Yes       FACU         1. Tilia americana       50       Yes       FACU       No ber FACU       Number of Dominant Species That       Are OBL, FACW, or FAC:       1       (A)         3. Platanus occidentalis       10       No       FACU       Total Number of Dominant Species       Are OBL, FACW, or FAC:       2.0.0% (A/B)         5. Amelanchier arboree       10       No       FACU       Percent of Dominant Species That       Are OBL, FACW, or FAC:       20.0% (A/B)         10	Remarks:		-						
Tree Stratum 1.       (Plot size: 30 feet )       Absolute % Cover 50       Dominant Status Yes       Indicator Status FACU         1.       Tilia americana 2.       Urglass nigra 20       Yes       FACU FACU         3.       Platanus occidentalis       10       No       FACU Are OBL, FACW, or FAC: 1       (A)         3.       Platanus occidentalis       10       No       FACU No       Total Number of Dominant Species Across All Strats: 5       (B)         4.       00       Total Number of Dominant Species Across All Strats: 5       (B)         7       100       Total Number of Dominant Species Across All Strats: 5       (B)         1.       00       FACU       Prevalence Index worksheet:       20.0%       (AVB)         2.       Sinilax rotundifolia       10       Yes       FAC       Prevalence Index worksheet:       20.0%       (AVB)         3.       Solitax rotundifolia       10       Yes       FAC       FAC Species 10       x1 = 0       FAC Species 10       x2 = 20       FAC Species 10       x2 = 20       FAC Species 10       x2 = 20       FAC Species 10       x4 = 500       UPL Species 10       x5 = 200       Column Totals: 205       (A)       810       (B)       Species 10       x5 = 200       Column Totals: 205       (A)	Site characteristics do not support wetland status.								
Tree Stratum 1.       (Plot size: 30 feet )       Absolute % Cover 50       Dominant Status Yes       Indicator Status FACU         1.       Tilia americana 2.       Urglass nigra 20       Yes       FACU FACU         3.       Platanus occidentalis       10       No       FACU Are OBL, FACW, or FAC: 1       (A)         3.       Platanus occidentalis       10       No       FACU No       Total Number of Dominant Species Across All Strats: 5       (B)         4.       00       Total Number of Dominant Species Across All Strats: 5       (B)         7       100       Total Number of Dominant Species Across All Strats: 5       (B)         1.       00       FACU       Prevalence Index worksheet:       20.0%       (AVB)         2.       Sinilax rotundifolia       10       Yes       FAC       Prevalence Index worksheet:       20.0%       (AVB)         3.       Solitax rotundifolia       10       Yes       FAC       FAC Species 10       x1 = 0       FAC Species 10       x2 = 20       FAC Species 10       x2 = 20       FAC Species 10       x2 = 20       FAC Species 10       x4 = 500       UPL Species 10       x5 = 200       Column Totals: 205       (A)       810       (B)       Species 10       x5 = 200       Column Totals: 205       (A)									
Tree Stratum       (Plot size: 30 feet)       % Cover       Species?       Status       Dominance Test worksheet:         1. Tila americana       50       Yes       FACU       Number of Dominant Species That         2. Jugians nigra       20       Yes       FACU       Number of Dominant Species That         3. Platanus occidentalis       10       No       FACU       Total Number of Dominant Species         4. Celtis occidentalis       10       No       FACU       Across All Strata:       5       (B)         5. Amelanchier arborea       100       =Total Cover       FACU       Percent of Dominant Species That       Across All Strata:       5       (B)         2. Smilax rotundifolia       10       Yes       FAC       Prevalence Index worksheet:       20.0%       (A/B)         3.	VEGETATION – Use scientific names of pla	ints.							
1. Tilia americana       50       Yes       FACU       Number of Dominant Species That         2. Jugtans nigra       20       Yes       FACU         3. Pitatanus occidentalis       10       No       FACW         4. Celtis occidentalis       10       No       FACU         5. Amelanchier arborea       10       No       FACU         100       Total Number of Dominant Species That         Across All Stratus       5         Spling/Shrub Stratum       (Plot size: 15 feet)         1. Lonicera maackii       40       Yes         2. Smilax rotundifolia       10       Yes         3.									
2.       Juglans nigra       20       Yes       FACU       Acc OBL, FACW, or FAC:       1       (A)         3.       Platanus occidentalis       10       No       FACU       Total Number of Dominant Species       Acc OBL, FACW, or FAC:       1       (A)         4.       Cellis occidentalis       10       No       FACU       Total Number of Dominant Species       Acros All Strata:       5       (B)         Sapling/Shrub Stratum       (Plot size:       15 feet       10       No       FACU       Prevalence Index worksheet:       20.0%       (A/B)         1.       Lonicera maackii       10       Yes       FAC       Total % Cover of:       Multiply by:       00         3.									
3.       Platanus occidentalis       10       No       FACW       Total Number of Dominant Species         4.       Celtis occidentalis       10       No       FAC       Across All Strata:       5       (B)         5.       Amelanchier arborea       10       No       FAC       Percent of Dominant Species That Are OBL, FACW, or FAC:       20.0%       (A/B)         3.       10       Yes       UPL       Prevalence Index worksheet:       20.0%       (A/B)         2.       Smilax rotundifolia       10       Yes       UPL       FAC       Total % Cover of:       Multiply by:       0         3.       .       .       .       .       .       FACW species       0       x 2 = 20       5         5.       .       .       .       .       .       FACU species       10       x 2 = 20       .       FACU species       10       x 4 = 500       UPL species       10       x 4 = 500       UPL species       10       x 5 = 200       Column Totals: 205       (A)       810       (B)         2.       Sanicula odorata       10       No       FACU       Set 200       Column Totals: 205       (A)       810       (B)       Yes       FACU       Set 200							That	1	<b>(A</b> )
4.       Celtis occidentatis       5       In       No       FAC       Across All Strats:       5       (A/R)         5.       Amelanchier arborea       10       No       FACU       Percent of Dominant Species That Are OBL, FACW, or FAC:       20.0% (A/B)         7.       100       =Total Cover       FAC       Prevalence Index worksheet:       Total % Cover of:       Multiply by:         8.       . <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td>_(^)</td>								<u> </u>	_(^)
5.       Amelanchier arborea       10       No       FACU         100       =Total Cover       =Total Cover       Are OBL, FACW, or FAC:       20.0% (A/B)         1.       Lonicera maackii       40       Yes       UPL       Prevalence Index worksheet:         2.       Smilax rotundifolia       10       Yes       FAC       Total % Cover of:       Multiply by:         3.       -       -       -       -       FAC       Total % Cover of:       Multiply by:         5.       -       -       -       -       FAC       FAC       Saling % Cover of:       Multiply by:         5.       -       -       -       -       FAC       FAC       Saling % Cover of:       Multiply by:         6.       -       -       -       -       -       FAC       FAC       FAC       FAC       FAC       FAC species       10       x1 = 0       FAC species       10       X2 = 200       Column Totals:       200       Columatos and						•	ecies	5	(B)
100       =Total Cover       Total Cover       Prevalence Index worksheet:       20.0% (A/B)         1.       Lonicera maackii       40       Yes       UPL       Prevalence Index worksheet:       Total % Cover of:       Multiply by:         2.       Smilax rotundifolia       10       Yes       FAC       OBL species       0       x1 =       0         3.							 That		_(=)
1.       Lonicera maackii       40       Yes       UPL       Prevalence Index worksheet:         2.       Smilax rotundifolia       10       Yes       FAC       Total % Cover of:       Multiply by:         3.						•		0.0%	(A/B)
2.       Smilax rotundifolia       10       Yes       FAC       Total % Cover of:       Multiply by:         3.	Sapling/Shrub Stratum (Plot size: 15 feet	)							-
3.	1. Lonicera maackii	40	Yes	UPL	Prevalence Inde	x workshee	t:		
4.	2. Smilax rotundifolia	10	Yes	FAC	Total % Cov	/er of:	Multipl	y by:	_
5.	3				OBL species	0	x 1 =	0	_
50       =Total Cover       FACU species       125       x 4 =       500         1. Asarum canadense       40       Yes       FACU       Column Totals:       205       (A)       810       (B)         2. Sanicula odorata       10       No       FAC       FACU       Prevalence Index = B/A =       3.95         3. Botrypus virginianus       5       No       FACU       Hydrophytic Vegetation Indicators:       1       -       1       - <td>4</td> <td></td> <td></td> <td></td> <td>FACW species</td> <td>10</td> <td>x 2 =</td> <td>20</td> <td>_</td>	4				FACW species	10	x 2 =	20	_
Herb Stratum(Plot size: 5 feet )UPL species $40$ x 5 = $200$ 1. Asarum canadense40YesFACU2. Sanicula odorata10NoFAC3. Botrypus virginianus5NoFACU4	5								_
1.       Asarum canadense       40       Yes       FACU       Column Totals:       205       (A)       810       (B)         2.       Sanicula odorata       10       No       FAC       Prevalence Index = $B/A = 3.95$ Prevalence Index = $B/A = 3.95$ 3.       Botrypus virginianus       5       No       FACU       Hydrophytic Vegetation Indicators:         4.		50	=Total Cover		I ' <u>–</u>				_
2. Sanicula odorata       10       No       FAC       Prevalence Index = B/A =		10		54.011					- (5)
3. Botrypus virginianus       5       No       FACU         4.						`	·		- <sup>(B)</sup>
4.					Fievalence ind	Jex – D/A –	5.9		-
5.	1				Hydrophytic Ver		icators:		
6.	5					-		tation	
8.									
8.	7.								
9.	°							vide su	pporting
10.	<u>^</u>				data in Re	marks or on	a separate	sheet)	
Woody Vine Stratum     (Plot size: 30 feet )       1.					Problematic	Hydrophytic '	Vegetation	<sup>1</sup> (Expl	ain)
1.			=Total Cover						must
2.           Hydrophytic           Vegetation          Vegetation		)			be present, unles	s disturbed o	or problem	atic.	
= I otal Cover   Present? Yes No X	<sup>2.</sup>		-Total Cause		-	Vaa	No. Y		
Pemerke: (Inelude photo numbero hero er on a constrate cheat.)			- rotal Cover		Present?				

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation does not support dominant hydrophytic status.

SOIL

Profile Desc	ription: (Describe	to the depth	needed to doc	ument tl	ne indica	tor or o	onfirm the absend	e of indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-20	10YR 3/3	100					Loamy/Clayey			
<u> </u>										
<sup>1</sup> Type: C=Co	oncentration, D=Dep	etion, RM=F	Reduced Matrix, N	/IS=Mas	ked Sanc	I Grains	<sup>2</sup> Locati	on: PL=Pore Lini	ing, M=Matrix.	
Hydric Soil I			· · · · · · · · · · · · · · · · · · ·					tors for Problem		ils³:
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Co	ast Prairie Redo	(A16)	
Histic Ep	ipedon (A2)		Sandy Re	dox (S5)			 Iro	n-Manganese Ma	asses (F12)	
Black His	stic (A3)		Stripped N	latrix (Se	5)			d Parent Materia	(F21)	
Hydroger	n Sulfide (A4)		Dark Surfa	ace (S7)			Ve	ry Shallow Dark S	Surface (F22)	
Stratified	Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Ot	her (Exp <b>l</b> ain in Re	emarks)	
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)					
Depleted	Below Dark Surface	e (A11)	Depleted I	Matrix (F	3)					
Thick Da	rk Surface (A12)		Redox Da	rk Surfac	æ (F6)		<sup>3</sup> Indica	tors of hydrophyti	c vegetation an	d
	ucky Mineral (S1)		Depleted I				we	tland hydrology n	nust be present	,
5 cm Mu	cky Peat or Peat (S3	5)	Redox De	pression	s (F8)		un	less disturbed or	problematic.	
Restrictive L	ayer (if observed):									
Туре:			_							
Depth (in	ches):		_				Hydric Soil Prese	ent?	Yes	No <u>X</u>
Remarks:										
Soil characte	ristics do not suppo	t hydric statı	ls.							
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
-	ators (minimum of c	ne is require	d; check all that	app <b>l</b> y)			Secon	dary Indicators (m	ninimum of two	required)
	Nater (A1)		Water-Sta		ves (B9)		Su	Inface Soil Cracks	(B6)	
High Wat	ter Table (A2)		Aquatic Fa					ainage Patterns (		
Saturatio	n (A3)		True Aqua	tic Plant	s (B14)		 Dr	y-Season Water <sup>-</sup>	Table (C2)	
Water Ma	arks (B1)		Hydrogen	Sulfide 0	Ddor (C1)	)	Cr	ayfish Burrows (C	(8)	
Sedimen	t Deposits (B2)		Oxidized F	Rhizosph	eres on l	iving R	oots (C3)Sa	turation Visib <b>l</b> e o	n Aerial Imager	y (C9)
Drift Dep	osits (B3)		Presence	of Reduc	ed Iron (	C4)	St	unted or Stressed	l P <b>l</b> ants (D1)	
Algal Ma	t or Crust (B4)		Recent Irc	n Reduc	tion in Ti	lled Soil	s (C6) Ge	eomorphic Positio	n (D2)	
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FA	C-Neutral Test (	D5)	
Inundatio	n Visible on Aerial I	magery (B7)	Gauge or	Well Dat	a (D9)					
Sparsely	Vegetated Concave	Surface (B8	)Other (Exp	blain in F	(emarks					
Field Observ	vations:									
Surface Wate	er Present? Ye	s	No	Depth (i	nches):					
Water Table	Present? Ye	s	No	Depth (i	nches):					
Saturation Pr	resent? Ye	s	No	Depth (i	nches): _		Wetland Hydro	logy Present?	Yes	No <u>X</u>
(includes cap										
Describe Red	corded Data (stream	gauge, mon	itoring well, aeria	l photos	, previous	s inspec	tions), if available:			
Demonstra										
Remarks: No signs of w	vetland hydrology we	re observed								
			-							
1										

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

#### **BACKGROUND INFORMATION**

#### A. REPORT COMPLETION DATE FOR PJD: 9/19/22

#### B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Kirk Roth, 200 S. Meridian St, Ste 330, Indianapolis, IN 46225

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

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

The project (DES No. 1900333) is on SR 26, 4.98 miles west of US 52/231 at structure CV 026-079-28.10. The project will include the construction of a single span reinforced concrete three-sided structure. A new access road, approximately 900 feet in length, will be constructed on the existing fill slopes of SR 26. Incidental work will include approximately 400 feet of asphalt replacement, milling and resurfacing to tie the new pavement into the existing. Scour protection (riprap on geotextiles) will be placed at the inlet, along the structure, and at the outlet. 0.65 acre of additional right-of-way is anticipated for this project. Construction is expected to begin in 2024 and last approximately 3 months. Water that passes through the structure will be maintained during construction with appropriate erosion and sediment control techniques.

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

<sup>State:</sup> Indiana	County/parish/borough: Tippecanoe	City: Montmorenci
Center coordinates o	f site (lat/long in degree decimal format):	
Lat.: 40.44609	Long.: -87.02433	

Universal Transverse Mercator: 16T 497936m E 4477271 m N

Name of nearest waterbody: Goose 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)
Goose Creek	40.445474	-87.024085	701 l.f.	non-wetland waters	Section 404, non-wetland
UNT1 to Goose Creek	40.446344	-87.023444	265 l.f.	non-wetland waters	Section 404, non-wetland
UNT2 to Goose Creek	40.447003	-87.024476	349 l.f.	non-wetland waters	Section 404, non-wetland
UNT3 to Goose Creek	40.445554	-87.024138	373 l.f.	non-wetland waters	Section 404, non-wetland

- 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 "preconstruction 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: Corradino, LLC
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:
USGS NHD data. USGS 8 and 12 digit HUC maps.
U.S. Geological Survey map(s). Cite scale & quad name: <u>1:20,000</u> Otterbein
Natural Resources Conservation Service Soil Survey. Citation: NRCS Soil Survey - Tippecanoe County
National wetlands inventory map(s). Cite name: USFWS-NWI V2 Wetland Mapping for SR 26, 4.98 Miles West of US 52/231.
State/local wetland inventory map(s):
FEMA/FIRM maps: Tippecanoe County, Indiana
100-year Floodplain Elevation is:(National Geodetic Vertical Datum of 1929)
Photographs: 🔳 Aerial (Name & Date): Indiana Statewide Aerial Imagery, 2016
or Other (Name & Date): Corradino, LLC - September 1 & 14, 2021; September 14, 2022.
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 Kirk Roth

Digitally signed by Kirk Roth Date: 2022.09.19 08:31:16 -04'00'

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

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



Public Involvement

Des. No. 1900333

HNTB Corporation The HNTB Companies Infrastructure Solutions 111 Monument Circle Suite 1200 Indianapolis, IN 46204 Telephone (317) 636-4682 Facsimile (317) 917-5211 www.hntb.com



July 8, 2020



Re: Tippecanoe County

#### **NOTICE OF SURVEY**

Dear Property Owner:

HNTB, on behalf of The Indiana Department of Transportation (INDOT), will perform a survey for the proposed small structure replacement on SR 26 culvert crossing, 4.98 miles west of US 52/US 231, located in Tippecanoe County, Indiana, Des No. 1900333. A portion of this survey work may be performed on your property in order to provide design engineers information for project design. The survey work will include mapping the location of features such as trees, buildings, fences, drives, ground elevations, etc. The survey is needed for the proper planning and design of this highway project.

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.

Indiana Code 8-23-7-26 allows HNTB, as the authorized employees of INDOT, *Right of Entry* to the project site (including private property) upon proper notification. A copy of a Notice of Survey discussion sheet, as found on INDOT's website (<u>http://www.in.gov/indot/2888.htm</u>), is attached to this letter. Pursuant to Indiana Code 8-23-7-27, this letter serves as written notification that we will be performing the above noted survey in the vicinity of your property on or after July 14, 2020.

HNTB employees will show you their identification, if you are available, before coming onto your property.

If you own but are not the tenant of this property (i.e. rental, sharecrop), please inform us so that we may also contact the actual tenant of the property prior to commencement of our work. If you have any questions or concerns regarding our proposed survey work or schedule, please contact the HNTB Project Manager. This contact information is as follows:

Chris Buergelin, PS 111 Monument Circle, Suite 1200 Indianapolis, IN 46204 (317) 903-4852 Under Indiana Code 8-23-7-28, you have a right to compensation for any damage that occurs to your land or water as a result of the entry or work performed during the entry. To obtain such compensation, you should contact the Crawfordsville District Real Estate Manager; contact information is below. The District Real Estate Manager can provide you with a form to request compensation for damages. Once you fill out this form, you can return it to the District Real Estate Manager for consideration. If you are not satisfied with the compensation that INDOT determines is owed to you, Indiana Code 8-23-7-28 provides the following:

The amount of damages shall be assessed by the county agricultural extension educator of the county in which the land or water is located and two (2) disinterested residents of the county, one (1) appointed by the aggrieved party and one (1) appointed by the department. A written report of the assessment of damages shall be mailed to the aggrieved party and the department by first class United States mail. If either the department or the aggrieved party is not satisfied with the assessment of damages, either or both may file a petition, not later than fifteen (15) days after receiving the report, in the circuit or superior court of the county in which the land or water is located.

If you have questions regarding the rights and procedures outlined in this letter, please contact the Indiana Department of Transportation Central Office. This contact information is as follows:

1-855-INDOT4U (463-6848) www.INDOT4U.com

Thank you in advance for your cooperation in this matter. Sincerely, HNTB Corporation

Willi M. Am

William M. Jones Supervisory Survey Technician

# Appendix H

Air Quality

Des. No. 1900333

## **INDIANA DEPARTMENT OF TRANSPORTATION**



100 North Senate Avenue Room N758-Executive Office Indianapolis, Indiana 46204 PHONE: (855) 463-6848

Eric Holcomb, Governor Michael Smith, Commissioner

April 26, 2022

Mr. Jermaine R. Hannon, Division Administrator FHWA Indiana Division 575 North Pennsylvania St., Room 254 Indianapolis, IN 46204

Ms. Kelley Brookins, Regional Administrator FTA Region 5 200 West Adams St. Suite 320 Chicago, IL 60606-5253

Dear Mr. Hannon /Ms. Brookins:

The Indiana Department of Transportation is pleased to submit its Draft FY 2022-2026 Statewide Transportation Improvement Program (STIP) for review and comment by your offices.

Included in the final submitted document is a listing of the state's expansion/preservation and local small urban and rural and rural transit projects. The following Metropolitan Planning Organization TIP's will be included in the FY 2022-2026 STIP by reference, pending FHWA approval in May 2022.

<ul> <li>Area Plan Commission of Tippecanoe County (APCTC)</li> <li>Version 3/10/2022</li> </ul>	FY 2022-2026
<ul> <li>Bloomington-Monroe County Metropolitan Planning Organization (BMCMPO)</li> <li>Version 3/11/2022</li> </ul>	FY 2022-2026
Columbus Area Metropolitan Planning Organization (CAMPO) • Version 3/22/2021	FY 2022-2026
<ul> <li>Delaware-Muncie Metropolitan Plan Commission (DMMPC)</li> <li>Version 12/15/2021</li> </ul>	FY 2022-2025
<ul> <li>Evansville Metropolitan Planning Organization (EMPO)</li> <li>Version 3/10/2022</li> </ul>	FY 2022-2026
<ul> <li>Kokomo-Howard County Governmental Coordinating Council (KHCGCC)</li> <li>Version 3/10/2022</li> </ul>	FY 2022-2026
<ul> <li>Kentuckiana Regional Planning and Development Agency (KIPDA)</li> <li>Version 3/29/2022</li> </ul>	FY 2020-2025
<ul> <li>Indianapolis Metropolitan Planning Organization (IMPO)</li> <li>Version 8/18/2021</li> </ul>	FY 2022-2025
Michiana Area Council of Governments (MACOG) <ul> <li>Version 3/09/2022</li> </ul>	FY 2022-2026

www.in.gov/dot/ An Equal Opportunity Employer



Madison County Council of Governments (MCCOG) <ul> <li>Version 7/13/2021</li> </ul>	FY 2022-2026
Northeastern Indiana Regional Coordinating Council (NIRCC)	FY 2022-2026
Northwestern Indiana Regional Planning Commission (NIRPC)	FY 2022-2026
• <i>Version 3/17/2022</i> Ohio-Kentucky-Indiana Regional Council of Governments (OKI)	FY 2020-2023
• <i>Version 03/10/2022</i> Terre Haute Area Metropolitan Planning Organization (THAMPO)	FY 2020-2024
<ul> <li>Version 08/26/2021</li> </ul>	1 1 2020-2024

In addition, INDOT has expanded our public involvement process by taking advantage of virtual meeting techniques and allowing accessibility to online documents, materials, virtual meeting registration, recorded virtual meetings, and comment forms. INDOT also leveraged our planning partner contacts (MPOs, RPOs, LTAP), social media, and notifications sent to local libraries, housing authorities, senior aging centers, and local newspapers across the state.

We greatly appreciate FHWA/FTA support in the development of the STIP 2022-2026 and look forward to working together to achieve our mutual goals. Should you have any questions pertaining to this amendment, please contact Michael McNeil, STIP Specialist at 317-232-0223 or at <u>mmcneil@indot.in.gov</u>.

Sincerely,

Michael Smith, Commissioner Indiana Department of Transportation

cc: (w/enclosure): FTA

Michelle Allen, FHWA Jeffrey Brooks, INDOT Kristin Brier, INDOT Kathy Eaton-McKalip, INDOT Louis Feagans, INDOT Roy Nunnally, INDOT Larry Buckel, INDOT Jay Mitchell, INDOT Jason Casteel, INDOT Michael McNeil, INDOT





Federal Transit Administration Region V 200 West Adams St., Suite 320 Chicago, IL 60606-5253 U.S. Department of Transportation

Federal Highway Administration Indiana Division 575 N. Pennsylvania St., Rm 254 Indianapolis, IN 46204-1576

June 17, 2022

Mr. Michael Smith Commissioner Indiana Department of Transportation 100 N Senate Ave. N955 Indianapolis, IN 46204

SUBJECT: Indiana FY2022-2026 STIP Approval and Associated Federal Planning Finding

Dear Mr. Smith:

The Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) have completed our review of the FY2022-2026 Indiana Statewide Transportation Improvement Program (INSTIP), which was submitted by the INDOT request letter dated April 27, 2022.

Based on our review of the information provided, certifications of the Statewide and Metropolitan transportation planning processes for and within the state of Indiana, and our participation in those transportation planning processes (including planning certification reviews conducted in Transportation Management Areas), FHWA and FTA are jointly approving the FY2022-2026 STIP, including the Metropolitan Planning Organization (MPO) Transportation Improvement Programs (TIPs) directly incorporated into the STIP, subject to the corrective actions identified in the attached Federal Planning Finding (FPF) report. FHWA and FTA consider the projects in the 5<sup>th</sup> year for informational purposes only, and our approval does not exceed four years per 23 CFR 450.220(c).

FHWA and FTA are required under 23 CFR 450.220(b) to document and issue an FPF in conjunction with the approval of the FY2022-2026 STIP. At a minimum, the FPF verifies that the development of the STIP is consistent with the provisions of both the Statewide and Metropolitan transportation planning requirements. FHWA and FTA find that the Indiana FY2022-2026 STIP substantially meets the transportation planning requirements and are approving the STIP subject to the corrective actions outlined in the FPF. This approval is effective June 17, 2022, and is given with the understanding that an eligibility determination of individual projects for funding must be met, and INDOT must ensure the satisfaction of all administrative and statutory requirements, as well as address the corrective actions outlined in the attached report. FHWA and FTA will continue to partner with INDOT to ensure the previously developed action plan (attached) is implemented to address the corrective actions. If progress is not made in addressing the corrective actions, future amendments to the FY2022-2026 STIP, or adoption of the FY2024-2028 STIP, may not be approved by USDOT.

If you have questions or need additional information concerning our approval and the FPF, please contact Ms. Michelle Allen of the FHWA Indiana Division at (317) 226-7344, or by email at michelle.allen@dot.gov, or Mr. Jason Ciavarella of the FTA Region 5 Office at (312) 353-1653, or by email at jason.ciavarella@dot.gov.

Sincerely,

KELLEY Digitally signed by KELLEY BROOKINS Date: 2022.06.13 10:08:34 -05'00'

Kelley Brookins Regional Administrator FTA Region V Sincerely,

JERMAINE R HANNON Jermaine R. Hannon Division Administrator FHWA Indiana Division

cc: (transmitted by e-mail) Louis Feagans, INDOT Roy Nunnally, INDOT Karen Hicks, INDOT

Indiana Department of Transportation	(INDOT)
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	n and Loo	cal Initia	ed Proje	cts FY 2022 - 2026														
SPONSOR	CONTR ACT#/	STIP	ROUTE	WORK TYPE	LOCATION	DISTRIC	T MILES	FEDERAL	Total Cost of	PROGRAM	PHASE	FEDERAL	MATCH	2022	2023	2024	2025	2026
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Tippecanoe County	4 19401			Bridge Replacement	Bridge 65 on Lily Road over	Crawfordsville	21	STBG	\$4,772,040.00	Local Bridge	CN	\$2,853,648.00	\$0.00	1		\$2,853,648.00		
	1802905	10000			Wea Creek, 580' NE of CR		1			Program						44000,010100		1
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Tippecanoe County	41940/	M01	R 1805	Bridge Replacement	Bridge 65 on Lily Road over	Crawfordsvilla	215	STBG		Local Bridge	CN	\$2,853,648.00	\$0.00				\$2,853,648.00	
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Indiana Department	420381	hit	US 52	Bridge Thin Deck	0.08 ml S of SR 26, over LINT	Crawfordsville		STBG	\$491,065.86		CN	\$237,543.20	\$59,385.80	\$296,929,00				
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of Transportation	1900333			Replacement with Bridge	Goose Creek	N DE DESTRE	50 ft 10	17 H 1 1 1 1	1. 1	Construction	of Street					and the second se		
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Page 283 of 354		Report C	reated:8/	10/202211:18:13AM														

-Estimated Casts left to Complete Project column is for casts that may estimal beyond the four years of a STP. This column is not faceally constrained and is for information purposes.



**Additional Studies** 

Des. No. 1900333

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

ProjectNumber	SubProjectCode	County	Property
1800028	3 1800028	Tippecanoe	Tippecanoe County Fairgrounds
1800101	1800101	Tippecanoe	Wabash River Park - McAllister Park
1800101.2	1800101.2	Tippecanoe	South Tipp Park
1800115	5 1800115	Tippecanoe	Wabash River Golf Course - McAllister Park
1800121	1800121	Tippecanoe	Tapawingo Park
1800155	5 1800155	Tippecanoe	Happy Hollow Park
1800256	5 1800256	Tippecanoe	Tommy Johnston Park
1800275	5 1800275	Tippecanoe	Tippecanoe Battlefield Park
1800279	1800279	Tippecanoe	Hanna Park
1800345	5 1800345	Tippecanoe	McCaw Park
1800345.2	2 1800345.2	Tippecanoe	Munger Park
1800494	1800494	Tippecanoe	Celery Bog Nature Area
1800506	5 1800506	Tippecanoe	Celery Bog Nature Area
1800515	5 1800515	Tippecanoe	Celery Bog Nature Area
1800517	1800517	Tippecanoe	Celery Bog Nature Area
1800532	1800532	Tippecanoe	Prophetstown State Park
1800532.1	1800532.1	Tippecanoe	Prophetstown State Park
1800532.2	1800532.2	Tippecanoe	Prophetstown State 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.

Source: https://www.in.gov/indot/2523.htm

### Bridge/Structure Bat Assessment Form

Da of /	<u>te &amp; Time</u> <u>Assessment</u> 9/1/21; 2:30pm		oute/Facility arried			<u>County</u> Tippecanoe						
<u>Fe</u> Str	<u>deral</u> ucture IDCV 026-079-28.10	<u>Structure Coordinates</u> 40.083614; -86.920408 (latitude and longitude)	<u>Sti</u> (ar	ructure Height _ pproximate)	7 fe	et	<u>Sti</u> Le	<u>Structure</u> 300 feet				
St	ructure Type (check one)		St	Structure Material (check all that apply)								
Br	idge Construction Style		De	eck Material	Βe	am Material	Eı	nd/Back Wall	Material			
0	Cast-in-place	O Pre-stressed Girder		Metal		None		Concrete				
-			┢	Concrete Timber		Concrete Steel		Timber Stone/Masonry				
О	Flat Slab/Box	Steel I-beam		Open grid		Timber		Other:				
0	Truss Side View			Other:		Other:	Сі	Creosote Evidence				
0	Parallel Box Beam	Other:	Сι	ulvert Material	1			Yes Unknown	<b>⊘</b> No			
Сι	Ilvert Type	Other Structure	×	Metal Concrete				<u>otes:</u>				
$\odot$	Box			Plastic								
0	Pipe/Round			Stone/Masonry								
	Other:			Other:								
	ossings Traversed (check all th		S	urrounding	На	bitat (check	all					
⊢	Bare ground Rip-rap	Open vegetation Closed vegetation		Agricultural Commercial				Grassland Ranching				
$\mathbf{x}$	Flowing water	Railroad	┢	Residential-urbar	n		<u> </u>	Riparian/wetland				
Ê	Standing water	Kanoud Kanoud Road/trail - Type: Interstate	X	Residential-rural				Mixed use				
	Seasonal water	Other:	X	Woodland/foreste	ed			Other:				
Ar	eas Assessed (check all that ap	(vlqu										
		present in the structure, check the "not pres	senť	" box.								
Do	cument all bat indicators observed during	g the assessment. Include the species prese	ent,	if known, and p	rovi	de photo docur	ner	ntation as indica	ated.			
Ar	ea (check if assessed)	Assessment Notes	E\	vidence of E	3at	<b>s</b> (include pł	ot	os if present	)			
	All crevices and cracks:	Not present						Audible	Species			
	Bridges/culverts: rough surfaces or		╘	Visual - live #		dead #		Odor				
$\mathbf{X}$	imperfections in concrete			Guano				Photos	4			
	Other structures: soffits, rafters, attic			Staining			I					
_	areas	Not present	-	1			-	Audible	Species			
	Concrete surfaces (open roosting on	I Not present		Visual - live #		dead #	-	Odor	Opecies			
$\boxtimes$	concrete)						Ē	Photos				
				Staining				1				
	Crease between concrete and wells	X Not present	┢─					Audible Species				
	Spaces between concrete end walls and the bridge deck		F	Visual - live # dead # Guano				Odor Photos				
	and the bhoge deck		┢	Staining				I Hotos				
	Crack between concrete railings on top	Not present						Audible	Species			
	of the bridge deck Gap		⊢	Visual - live #		dead #		Odor				
Г	Railing 🕌			Guano				Photos				
		Not present	┥──	Staining				Audible	Species			
L		X Not present		Visual - live #		dead #		Odor	Opecies			
	Vertical surfaces on concrete I-beams			Guano				Photos	1			
				Staining				4				
		Not present						Audible	Species			
$\mathbf{X}$	Spaces between walls, ceiling joists		F	Visual - live # Guano		dead #		Odor Photos	4			
				Staining			⊢	i notos	1			
		▼ Not present		le tanini g				Audible	Species			
	Weep holes, scupper drains, and		⊟	Visual - live #		dead #		Odor				
Р	in <b>l</b> ets/pipes			Guano				Photos				
		Not present		Staining					Species			
		Not present		Visual - live #		dead #	⊢	Audible Odor	Species			
Ľ	All guiderails			Guano		//	┢──	Photos	1			
L		<u> </u>										
		Not present						Audible	Species			
	All expansion joints		Visual - live # dead #					Odor Dhotos	4			
Г			┢	Guano Staining				Photos	-			
⊢		1	╢──	· · ·		1	-					
Na	ame: Kirk Roth		Si	gnature:	72	/ KS	~	<u> </u>				

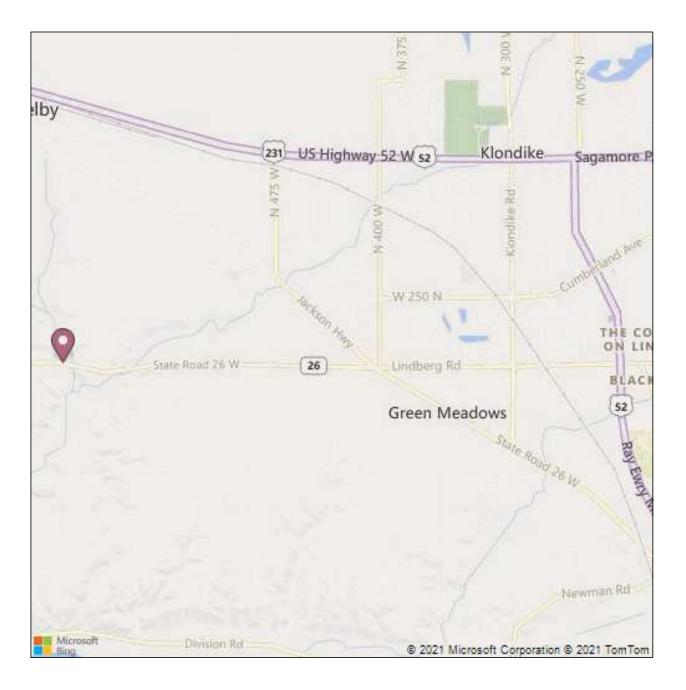
CV 026-079-28.10 SR 26 over GOOSE CREEK



Inspection Date: 05/13/2021 Inspected By: Daniel W. Bewley Inspection Type(s): Culvert

#### PAGE NUMBER

REPORT COVER	3
LOCATION MAP	4
EXECUTIVE SUMMARY	5
CULVERT INSPECTION OUTPUT REPORT	6
PICTURES	8
MAINTENANCE - CULVERT	15



Latitude: 40.44605 Longitude: -87.02412 Inspector: Daniel W. Bewley Inspection Date: 05/13/2021 Structure Number:93000628Facility Carried:SR 26

Culvert Inspection Report

#### Executive Summary

5/13/2021 Culvert is in overall poor condition on both of the ends.

Maintenance letter was written

SPMS shows Des# 1900333, Contract# R-42243, Letting Date 7/12/2023, Work Type Replacement With Bridge & Project Status Active

		Large Cul	vert Inspe	ection Re	port			W.	
(8) Asset Code:		93000628			(27) Year Bu	uilt:		1993	
Asset Name:		CV 026-079-	28.10		(90) Inspecti	on Date:		05/13/202	1
OLD Culvert ID:	OLD Culvert ID: 0				(91) Inspecti	on Frequ	ency:	12	
Team Assignment:		01				Addition	al Treatmer	nt Exists	
			Identificatio	on					
(2) Highway Agency Distr	ict:	01				(3) Cou	nty Code:	079	
Sub District:		1300				Ramp I	D:		
(42B) Type of Service (Ur	nder):	5				C	Adjacent	to Roadway	
(7) Facility Carried:	SR 26			(6) F	eatures Inter	sected:	GOOSE	CREEK	
(9) Location: <i>4.98 W</i>	US 52/231	(9.01	) Location A	dditional De	scription:			n Old SR 26 ( north up ch	
(11) Milepoint: 0 Classification:		(16	) Latitude:	40.44605			(17) Longi	tude: -8	7.02412
(104) Highway System of	the Inventory R	oute:	0	(26) I	Functional C	assificati	on of Inven	tory Route:	02
		G	eometric D	ata					
Culvert: Kind of Material:	2. Concre Precast	te Cul	vert: Type of	Structure:	19. 4 Side Box Culve		Min Est F	ill Cover (ft)	55.0
Culvert: Max. Horizontal O	pening (ft.):	20.00	Culvert: Max.	Vertical Op	ening (ft.):	6.00		(34) Skev	v: 10
Barrel Length (ft.): 300.	00	Ori	ginal Culvert	Shape:	Box				
Measurement Remarks:	From CV Ch	art. 300' long (	each = 600' i	long total					
Structure Additional Description:	Twin Reinfor	ced Concrete	Boxes; 7' x	7' RC Boxes	5				
Openings:									
Direction	Opening Latitude	Openin Longitu		Direction			pening atitude		Openin Longitu
1.	Lauluue	Longitu	ue	3.		Lo			Longitu
2.				4.					
penings Comments:									
Follow Up Required:									
*If checked, please lescribe for follow up:									
		<u>Endanger</u>	ed Species						
E	Bats: seen or he	ard under stru	ucture? *		N				
E	3irds/swallows/r	iests seen? Ei	mpty nests p	resent?	N				
*	If yes, add one	photo to the o	dropdown fie	ld					

#### **General Condition Ratings**

(36A) Bridge Railings:	Ν	(36C) Approach Guardrail:	Ν
(36B) Transitions:	Ν	(36D) Approach Guardrail Ends:	Ν
<u>Culvert:</u>			
(62) Culvert - Rating:	4		
(62) Culvert Rating Comments:	last 2 segments disconr alignment. If erosion cor	s have the last segment disconnected. The south nected. All other joints are in good condition and b ntinues/goes unfixed more sections of the boxes us changes since last inspection.	oox sections have good
Deck:			
(58) Deck:	Ν		
(58a) Deck Comments: Superstructure:			
(59) Superstructure:	Ν		
(59.01) Superstructure Comments:			
Substructure:			
(60) Substructure:	Ν		
(60.01) Substructure Comments:			
CV-Headwall/Anchor Rating	Ν		
CV-Wingwalls Rating	Ν		
<u>Channel:</u>			
(61) Channel and Channel Protection:	4		
(61.01) Channel and Channel Protection Comments:	There is severe drift bu	e amount of bank erosion and channel scour at bo uild up at the north end (trees). Channel flows fror is written in 10/2017, another was written in 2020.	n north to south.
Bank Erosion Rating:	4		
Drift/Sediment Rating	4		
Channel Alignment Rating	4		
	🖌 Check th	is box if culvert has OBSTRUCTED flow	
Describe Obstruction:		lvert has H-piles placed vertical through the char ance into the culvert boxes. This is doing its job, th	
	the piles.		
Overtopping Frequency:			

#### Pictures



PHOTO 1 Condition

Description Road alignment looking East



PHOTO 2 Condition Description Road alignment looking West

05/13/2021

Culvert Inspection Report

#### Pictures

Inspection Date:



PHOTO 3 Condition

Description Pavement condition above culvert



PHOTO 4 Elevation, Condition

Description Profile looking North

#### Pictures



PHOTO 5

Description

Looking South through West box



 PHOTO 6
 Condition

 Description
 Looking North through East box

#### Pictures



PHOTO 7

Description

Looking North through West box



PHOTO 8 Condition Description

North segment from West box is off

#### Pictures



#### PHOTO 9

Description

North segment from East box is off



PHOTO 10 Condition

Description Massive bank erosion on North side of road

#### Pictures



PHOTO 11 Condition

Description Erosion on North side of road. Showing erosion above the boxes



PHOTO 12 Condition

Description Up stream alignment or looking North

#### Pictures



PHOTO 13 Condition

Description Down stream alignment looking North or up stream

Date Reported: Priority: Work Code:

Deficiency Description:

05/13/2021 Yellow Channel Debris Removal 2nd letter, 1st one written 5/15/2020 CV 026-079-28.10 93000628

 Reported By:
 Dan Bewley

 Phone:
 765-376-0820

 Email Address:
 dbewley@indot.in.gov

 Recommendation:
 Log jam behind the steel piling on North side of road, needs to be removed.

Work Description:

Remove log jam

Date Repairs Completed:

Maintenance Comments:

Date Reported: Priority: Work Code: Deficiency Description: 05/13/2021 Yellow Erosion Control/Riprap Both hill sides are "Sluffing" Large eroded areas are causing the ends of the segmental boxes to fall off. 2nd letter for same concern. 1st one written 5/15/2020

 Reported By:
 Dan Bewley

 Phone:
 765-362-0820

 Email Address:
 dbewley@indot.in.gov

 Recommendation:
 Determine if erosion needs to be repaired or if can wait for bridge replacement (7/12/2023).

Work Description:

Date Repairs Completed: Maintenance Comments: CV 026-079-28.10

93000628

## THE CORRADINO GROUP, INC.

ENGINEERS · PLANNERS · PROGRAM MANAGERS · ENVIRONMENTAL SCIENTISTS

Environmental Justice Memorandum SR 26 Small Structure Replacement with Bridge (DES #1900333) November 8, 2022

#### SR 26, 4.98 miles west of US 52/231 over Goose Creek Tippecanoe County, Indiana Designation Number 1900333

#### **1. Environmental Justice Analysis**

Under FHWA Order 6640.23A, FHWA and the project sponsor, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent right-of-way. The project will require no relocations and up to 0.63 acre of additional permanent ROW and no temporary ROW. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exist and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city, or town and is called the community of comparison (COC). In this project, the COC is Tippecanoe County, Indiana. The community that overlaps the project area is called the affected community (AC). In this project, the AC is comprised of Census Tract 102.1 which encompasses the proposed ROW acquisition, and Census Tract 106 which includes an area of the project not subject to ROW acquisition. An AC has a population of concern for EJ if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC. Data from the 2018 and 2019 U.S. Census American Community Survey was obtained from <a href="https://data.census.gov/cedsci">https://data.census.gov/cedsci</a> on July 27, 2022 by Corradino, LLC. The data collected for minority and low-income populations within the COC and AC are summarized in the below table.

	COC – Tippecanoe County, Indiana	AC – Census Tract 102.1	AC – Census Tract 106
Percent Minority	23.62%	4.59%	10.10%
125% of COC	29.52%	AC < 125% COC	AC < 125% COC
EJ Population of Concern		No	No
Percent Low-Income	18.72%	7.37%	6.09%
125% of COC	23.40%	AC < 125% COC	AC < 125% COC
EJ Population of Concern		No	No

#### Table 1 – Census Data Summary

The AC Census Tract 102.1 has a percent minority of 4.59% which is below 50% and is below the 125% COC threshold. The AC Census Tract 106 has a percent minority of 10.10% which is below 50% and is below the 125% COC threshold. Therefore, AC Census Tracts 102.1 and 106 do not contain a minority population of EJ concern.

The AC Census Tract 102.1 has a percent low-income of 7.37% which is below 50% and is below the 125% COC threshold. The AC Census Tract 106 has a percent low-income of 6.09% which is below 50% and is below the 125% COC threshold. Therefore, AC Census Tracts 102.1 and 106 do not contain a low-income population of EJ concern.

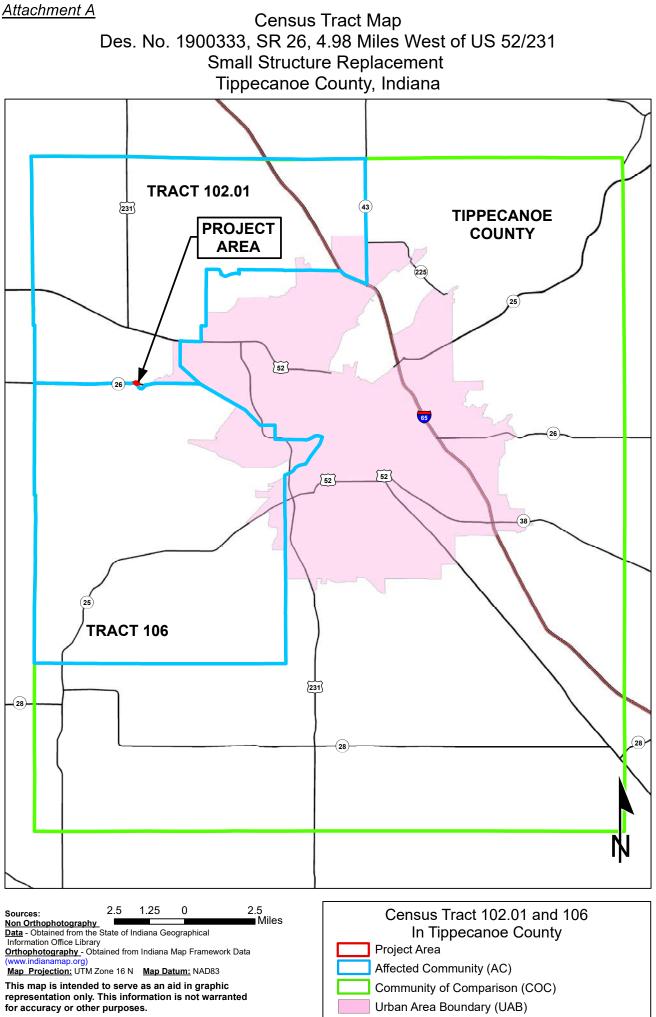
#### 2. Conclusion

The census data sheets, map, and calculations can be found in attachments to this document. This project does not contain a minority population or low-income population of EJ. Therefore, this project is not expected to not have a disproportionately high and adverse effect on minority or low-income populations. No further EJ analysis is warranted.

10 Kt

Kirk Roth Environmental Scientist Corradino, LLC 200 S. Meridian Street, Suite 330 Indianapolis, IN 46225

Attachments: Attachment A – Census Tract Map Attachment B – Income Data Attachment C – Minority Data Attachment D – Calculation Table



Appendix I-21

American Community Survey

#### B17001 | POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

2019: ACS 5-Year Estimates Detailed Tables 🐱 | Universe: Population for whom poverty status is determined

Transpose Margin of Error	이번 이상 공연을 물건물을 벗겨났다.					
Tippecanoe County, Indiana	1	Census Tract 102.01, Tippecanoe Co	unty, Indiana	Census Tract 106, Tippecanoe County	Indiana	
Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	
174,497	±1,255	5,171	±330	5,750	±346	
32,662	±1,877	381	±184	350	±153	
16,722	±1,203	130	±88	183	±92	
15,940	±1,127	251	±155	167	±95	
141,835	±1,855	4,790	±328	5,400	±345	
71,521	±1,219	2,471	±235	2,745	±230	
70,314	±1,149	2,319	±240	2,655	±290	
	Transpose         Margin of Error         Restore           Tippecanoe County, Indiana             Estimate         174,497         32,662           32,662         16,722         15,940           141,835         71,521         141,835	Transpose         Margin of Error         Restore         Excel         CSV         ZIP         Print           Tippecance County, Indiana           Estimate         Margin of Error           Estimate         Margin of Error           Indiana           Estimate         Margin of Error           Indiana         State         Margin of Error           Indiana         1174,497         ±1,255           Indiana         11,273           Indiana         11,273           Indiana         ±1,255           Indiana         11,273           Indiana         ±1,255           Indiana         11,273           Indiana         ±1,255           Indiana         11,273           Indiana         ±1,219           Indiana         11,212           Indiana         11,212           Indiana         11,212           Indiana	Transpose         Margin of Error         Restore         Excel         CSV         ZIP         Print         Map           Tippecance County, Indiana           Estimate         Consus Tract 102.01, Tippecance Co           Estimate         Census Tract 102.01, Tippecance Co           Estimate         County, Indiana           Estimate         Consus Tract 102.01, Tippecance Co           Estimate         County, Indiana           Interview         County, Indiana           Estimate         County, Indiana           Interview         County, Indiana           Interview         County, Indiana           Extent to 2.01, Tippecance Co           Interview         Estimate           Interview         Estimate           Interview         Estimate           Interview         Estimate           Interview         Estimate           Interview         Interview           Interview         Interview <td colsp<="" td=""><td>Transpose         Margin of Error         Restore         Excel         CSV         ZIP         Print         Map           Tippecanoe County, Indiana           Estimate         Census Tract 102.01, Tippecanoe County, Indiana           Image: Second Second</td><td>Margin of Error         Restore         Excel         CSV         ZIP         Print         Map           Tippecanoe County, Indiana         Census Tract 102.01, Tippe</td></td>	<td>Transpose         Margin of Error         Restore         Excel         CSV         ZIP         Print         Map           Tippecanoe County, Indiana           Estimate         Census Tract 102.01, Tippecanoe County, Indiana           Image: Second Second</td> <td>Margin of Error         Restore         Excel         CSV         ZIP         Print         Map           Tippecanoe County, Indiana         Census Tract 102.01, Tippe</td>	Transpose         Margin of Error         Restore         Excel         CSV         ZIP         Print         Map           Tippecanoe County, Indiana           Estimate         Census Tract 102.01, Tippecanoe County, Indiana           Image: Second	Margin of Error         Restore         Excel         CSV         ZIP         Print         Map           Tippecanoe County, Indiana         Census Tract 102.01, Tippe

American Community Survey

#### B03002 HISPANIC OR LATINO ORIGIN BY RACE

2018: ACS 5-Year Estimates Detailed Tables 🐱 Universe: Total population

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Notes	Geos	Years	Topics	Surveys	Codes	Hide	Transpose	Margin of Error	Restore	Excel	CSV	ZIP	Print	Мар

	Tippecanoe County, Indiana		Census Tract 102.01, Tippecanoe Coun	ty, Indiana	liana Census Tract 106, Tippecanoe County, India		
Label	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	
V Total:	189,294	*****	5,228	±325	5,859	±304	
V Not Hispanic or Latino:	173,808	*****	5,060	±359	5,479	±483	
White alone	144,589	±166	4,988	±353	5,267	±471	
Black or African American alone	9,445	±388	27	±46	74	±86	
American Indian and Alaska Native alone	332	±142	9	±14	0	±16	
Asian alone	15,320	±299	0	±16	56	±45	
Native Hawaiian and Other Pacific Islander alone	74	±58	0	±16	0	±16	
Some other race alone	258	±158	0	±16	0	±16	
Two or more races:	3,790	±526	36	±52	82	±76	
Two races including Some other race	145	±84	0	±16	0	±16	
Two races excluding Some other race, and three or more races	3,645	±526	36	±52	82	±76	
➤ Hispanic or Latino:	15,486	*****	168	±190	380	±335	
White alone	11,151	±890	148	±191	345	±328	
Black or African American alone	200	±117	0	±16	0	±16	
American Indian and Alaska Native alone	98	±76	0	±16	0	±16	
Asian alone	58	±40	0	±16	3	±6	
Native Hawaiian and Other Pacific Islander alone	0	±27	0	±16	0	±16	
Some other race alone	3,354	±882	20	±30	32	±44	
V Two or more races:	625	±285	0	±16	0	±16	
Two races including Some other race	346	±216	0	±16	0	±16	
Two races excluding Some other race, and three or more races	279	±151	0	±16	0	±16	

## Attachment D

#### Community of Comparison (COC) and Affected Community (AC) Data for DES 1900333

	Tippecanoe	Census Tract 102.01,	Census Tract 106,
	County,	Tippecanoe County,	Tippecanoe County,
	Indiana (COC)	Indiana (AC)	Indiana (AC)
Label	Estimate	Estimate	Estimate
Total Race Population Sample:	189,294	5,228	5,859
Non-Hispanic White alone	144,589	4,988	5,267
Not Non-Hispanic White alone	44705	240	592
% Minority	23.62	4.59	10.10
125%COC	29.52	< 125% COC	< 125% COC
Total Poverty Population Sample:	174,497	5,171	5,750
Income Below Poverty Status	32,662	381	350
% Below Poverty Status	18.72	7.37	6.09
125%COC	23.40	<125% COC	<125% COC

#### Source

https://data.census.gov/cedsci/