

# Appendix F

## Water Resources

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**Wetland Delineation and Waters of the US Report**  
**SR 3 and SR 46 North Junction**  
**Washington Township, Decatur County, Indiana**  
**Des. No. 1700050**

**Report Completed: March 31, 2020**



**Prepared for:**



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- Appendix C:** Wetland Determination Data Forms
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**Wetland Delineation and Waters of the US Report  
SR 3 and SR 46 North Junction  
Washington Township, Decatur County, Indiana  
Des. No. 1700050**

**Report Completed: March 31, 2020**

## **I. Introduction**

The Indiana Department of Transportation (INDOT) is proposing to proceed with the improvements of the State Road (SR) 3 and SR 46 (Base Road) north junction in Washington Township, Decatur County, Indiana. The purpose of this investigation was to identify wetlands and waterways within and adjacent to the project area. A routine wetland determination, per the *1987 Corps of Engineers Wetland Delineation Manual (Y-87-1)* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* was conducted. This report details the findings of the investigation.

The project is located at the SR 3 and SR 46 north junction, near reference post 117 on SR 3 in Decatur County, Indiana (Attachment A, State Location Map). Specifically, the project is located in Section 9, Township 10 North, Range 9 East as shown on the Forest Hill, Indiana United States Geological Survey (USGS) 7.5 Minute Quadrangle (Attachment A, USGS Project Location Map).

## **II. Existing Data**

### **7.5 Minute USGS Quadrangle Maps and Watershed**

The USGS map was reviewed to determine the topography and drainage patterns within the project area. The map indicates that the project area and surrounding terrain is relatively flat with the elevation ranging from approximately 920 to 930 feet. A perennial blue line stream, Muddy Fork Sand Creek is present east of the project area.

Drainage basins are divided into hydrologic units by the USGS based on major river systems. The entire project area is within the 8-digit Hydrologic Unit Code (HUC); 05120206, Upper East Fork White Watershed.

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

The U.S. Fish and Wildlife Service (USFWS) NWI maps identify potential wetlands based on high-level imagery interpretation. The wetlands are then classified by type utilizing the Cowardin classification system. The classification system provides information on wetland vegetation type, water regime, and any relevant alterations. This level of mapping does not determine regulatory boundaries. The NWI map was evaluated for the presence of potential jurisdictional wetlands within the project area (Attachment A, NWI Wetlands Map). No NWI wetlands are mapped within the study area. The nearest NWI is mapped 0.11-mile southeast of the project area, identified as a PUBGh, freshwater pond, palustrine, unconsolidated bottom, intermittently exposed, dike/impounded.

### **County Soil Survey Map**

The Natural Resources Conservation Service (NRCS) Web Soil Survey was reviewed to determine soil classification within the project area (Attachment A, NRCS Soils Map). Six (6) soil types were identified within the project area (Table 1, on the following page). Fincastle silt loam (FcA), Miami silt loam (MmB2), Williamstown silt loam (WmB), and Zenia silt loam (XnA) are identified as partially hydric and Cyclone silt loam (Cy) is identified as hydric.



**Table 1. Soil Summary**

Soil Type	Symbol	Drainage Rating	Hydrology	Hydric Rating	Hydric
Cyclone silt loam, 0-2 percent slopes	Cy	Poorly drained	Frequent ponding	85%	Yes
Fincastle silt loam, 0 to 2 percent slopes	FcA	Somewhat poorly drained	None	10%	Partially
Miami silt loam, 2 to 6 percent slopes, eroded	MmB2	Moderately well drained	None	5%	Partially
Miami clay loam, 6 to 12 percent slopes, severely eroded	MoC3	Moderately well drained	None	0%	No
Williamstown silt loam, 2 to 6 percent slopes, eroded	WmB	Moderately well drained	None	5%	Partially
Xenia silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	XnA	Moderately well drained	None	5%	Partially

### **Flood Map**

The Indiana Department of Natural Resources (IDNR) Best Available Floodzone Mapping was reviewed for the presence of the Special Flood Hazard Areas. The project is not located within any designated floodplains.

### **III. Waters of the U.S**

#### **Jurisdictional Wetland Determination/Delineations**

The project area was analyzed using methods outlined in the *1987 Corps of Engineers Wetland Delineation Manual (Y-81-1)* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*.

#### **Jurisdictional Waterways**

The project area was analyzed for Waters of the U.S. using the U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook (2007) and Regulatory Guidance Letter (RGL) No. 05-05.

### **IV. Field Reconnaissance**

CHA staff conducted a field investigation on October 14, 2019 to determine the presence of wetlands, Waters of the U.S., and Waters of the State within the project area. Locations of data points, wetlands and streams are provided in Attachment A on the Photo Orientation Map. Photographs of the project area and Wetland Delineation Data Forms are included in Attachments B and C, respectively. The following provides a brief description of the findings of the field investigation.

## **Streams**

### *Unnamed Tributary 1 (UNT 1)*

UNT 1 is an ephemeral stream located adjacent to SR 3 on the southeast side of the highway with an ordinary high-water mark (OHWM), exhibiting bed and bank at approximately 1 foot wide and 0.25 feet deep, with a drainage area of 0.04 square miles. UNT 1 starts east of the SR 46 junction to SR 3, flows northeast parallel with SR 3, and then heads southeast out of the project area. UNT 1 appears to be connected through an impounded pond to the southeast of the project area that outlets to Muddy Fork Sand Creek, a Relatively Permanent Water (RPW) and Waters of the U.S. Substrate consisted of silt. UNT 1 possesses a narrow riparian corridor, and no excess erosion along the bank. The stream is considered to be in poor condition due to surrounding agricultural land use, narrow riparian buffer, and little aquatic habitat. UNT 1 would likely be considered a Waters of the US.

### *Roadside Ditches (RSD)*

There were no roadside ditches identified within the project area during the field investigation.

## **Wetlands**

### *Wetland A*

Wetland A is a small emergent wetland that is 0.145 acre in size. This wetland is east of the culvert under the north side of SR-46 and west of the culvert under SR 3. The wetland extends to the eastern culvert under SR 3. The wetland is considered poor quality based on the small size, the surrounding agricultural land use, the presence of invasive species, and its proximity to the highway and the utilization as a roadside ditch. This wetland is connected through an UNT to Greensburg City Park Lake eventually connecting to Muddy Fork Sand Creek. Due to this connection, Wetland A would be considered a Waters of the U.S. and will be under the jurisdiction of the USACE.

*Data Point 1* was located within Wetland A. The dominant species at this data point was *Typha X glauca* (hybrid cattail, OBL). This data point passed the Rapid Test for Hydrophytic Vegetation, Dominance Test, and Prevalence Index, therefore; meeting the hydrophytic vegetation criterion. The soil profile, from 0 to 3 inches, was silty clay loam that had a color of 10YR 4/1 (90%) with 7.5YR 4/6 (10%) redox concentrations in the matrix. From 3-18 inches, the soil profile was a silty clay loam that had a color of 10YR 5/1 (75%) with 10YR 6/8 (25%) redox concentrations in the matrix. The hydric soil indicator Depleted Matrix (F3) was observed at this data point, indicating that hydric soils are present. Geomorphic position (D2) and FAC-Neutral Test (D5) were the observed secondary hydrology indicators, signifying that wetland hydrology was present. As all three required criteria were considered met, DP-1 was located within a wetland.

*Data Point 2* was located in an upland area adjacent to Wetland A. The dominant species at this data point was *Festuca arundinacea* (tall fescue, FACU). Data point 2 did not meet the hydrophytic vegetation criterion, due to no hydrophytic vegetation being present. The soil sample, from 0-5 inches, was silty clay loam that had a color of 10YR 4/3 (100%). From 5-18 inches, the soil profile was a silty clay loam that had a color of 10YR (5/3) (100%). There were no hydric soil indicators observed for data point 2, therefore no hydric soil was present. No hydrology indicators were noted, consequently there was no wetland hydrology at this data point. As the required criteria were not met, data point 2 is not located within a wetland.



**Data Points**

A total of two data points were taken along the project area. DP-1 was located within Wetland A and DP-2 was in an upland area adjacent to Wetland A. Table 2 provides a summary of these data points.

**Table 2. Summary of Data Points**

Data Point	Photos	Latitude/ Longitude	Wetland Indicators Observed			Wetland/ Upland
			Hydrophytic Vegetation	Hydric Soils	Hydrology	
DP-1	PP-9	39.334058 -85.521138	Rapid Test, Dominance Test, and Prevalence Test	Depleted Matrix (F6)	Geomorphic position (D2) and FAC-Neutral test (D5)	Wetland
DP-2	PP-10	39.334007 -85.521089	No	No	No	Upland

**V. Conclusion**

One ephemeral UNT was identified within the project area (Table 3). One emergent wetland was identified within the project area (Table 4). These waters resources were identified as Waters of the U.S. and will be under the jurisdiction of the USACE.

**Table 3. Summary of Stream Resources**

Stream Name	Photos	Latitude/ Longitude	OHWL Width/ Depth	USGS Blue Line	Pools/ Riffles	Substrate	Stream Quality	Water s of the U.S.	Steam Type
UNT 1	PP-13	39.333690 -85.520524	1'/0.25'	No	No	Silt	Poor	Yes	Ephemeral

**Table 4. Summary of Wetland Resource**

Wetland Name	Photos	Latitude/ Longitude	Wetland Type	Acres	Wetland Quality	Waters of the U.S.
Wetland A	PP-8,9,10,11,12	39.334204 -85.520882	PEM1A	0.145	Poor	Yes

A preliminary jurisdictional determination form is included in Attachment D outlining the water resources described in this report. Every effort should be taken to avoid and minimize impacts to these water resources. If impacts are necessary, then mitigation may be required. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgment based on the guidelines set forth by the USACE.

**VI. Acknowledgment**

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 Wetland Delineation Manual, the appropriate regional supplement, the USACE Jurisdictional Determination Form Instructional Guidebook, and other appropriate agency guidelines.



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3/31/2020

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Date

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3/31/20

Summer Elmore, PWS  
Senior Scientist CHA  
Consulting, Inc.

Date

## **VII. References**

- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List: 2016 wetland ratings*. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X
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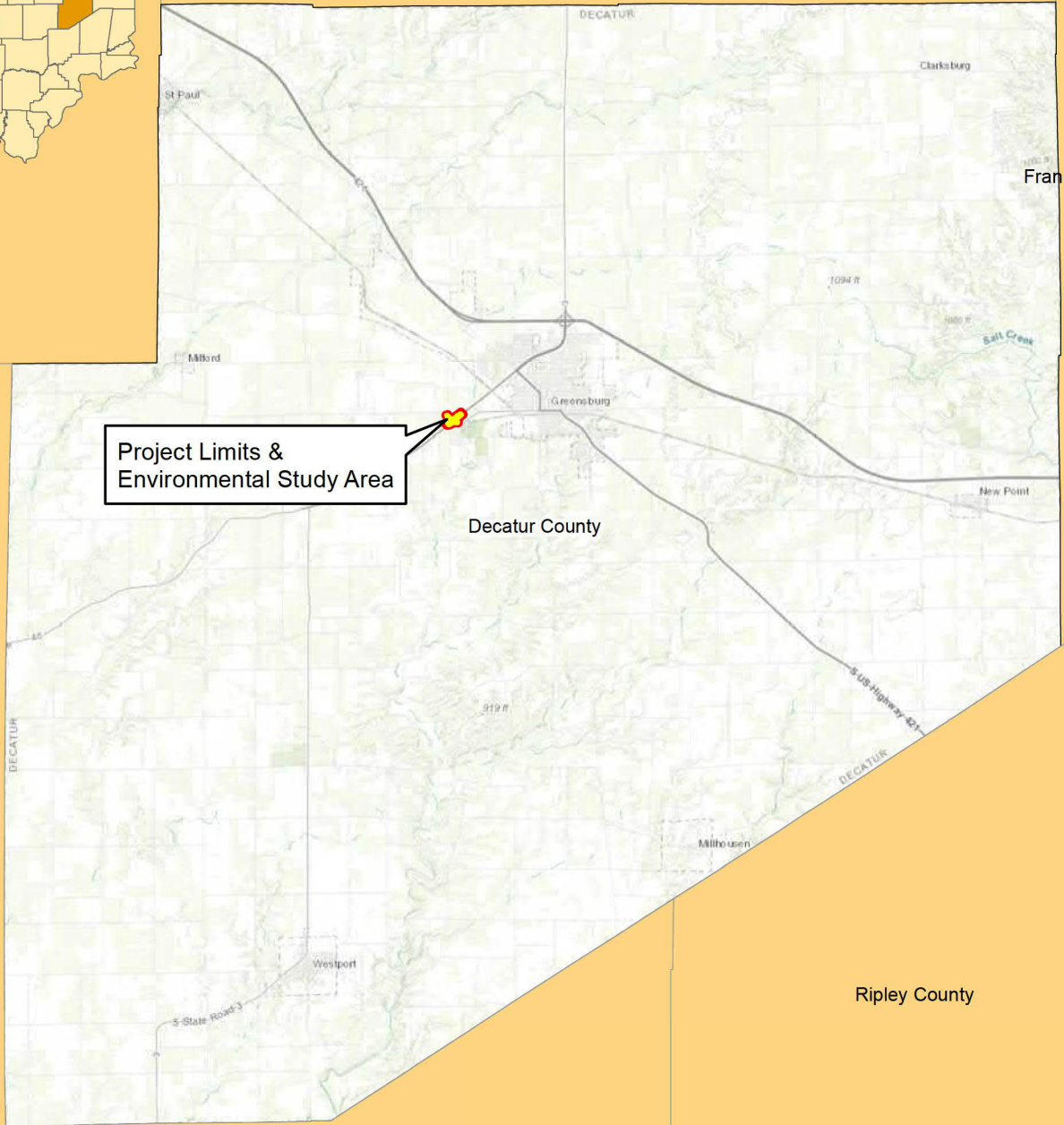


Fayette County

Rush County



Franklin County



Project Limits & Environmental Study Area

Decatur County

Bartholomew County

Ripley County

Jennings County

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### State Location Map

SR 46 and SR 3 Intersection Improvement  
Decatur County, Indiana

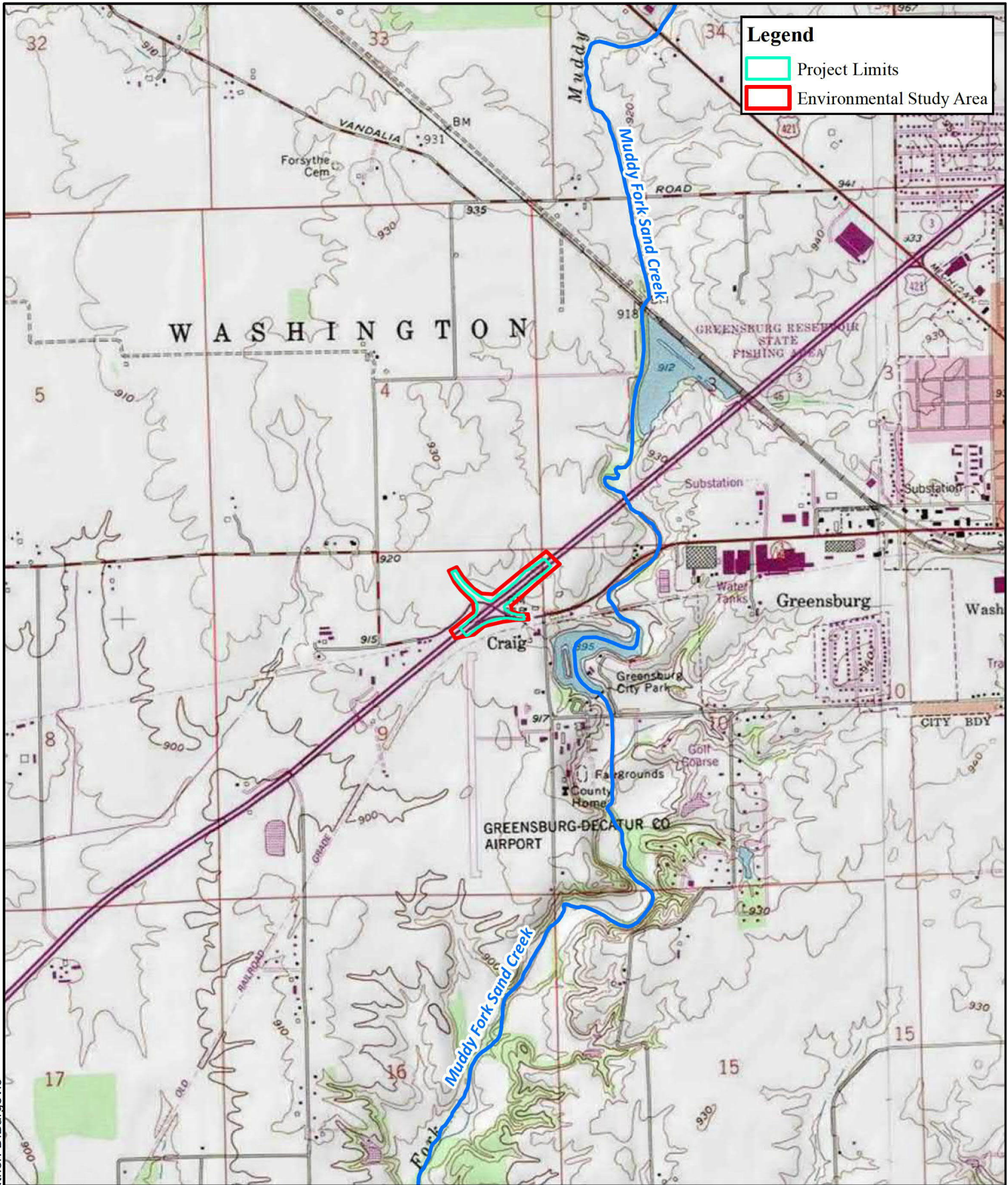


Scale 1" = 18,000'

DES 1700050

County boundaries and transportation network  
courtesy of the Indiana Spatial Data Portal





**Legend**

- Project Limits
- Environmental Study Area

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**CIA**

Scale 1" = 2000'

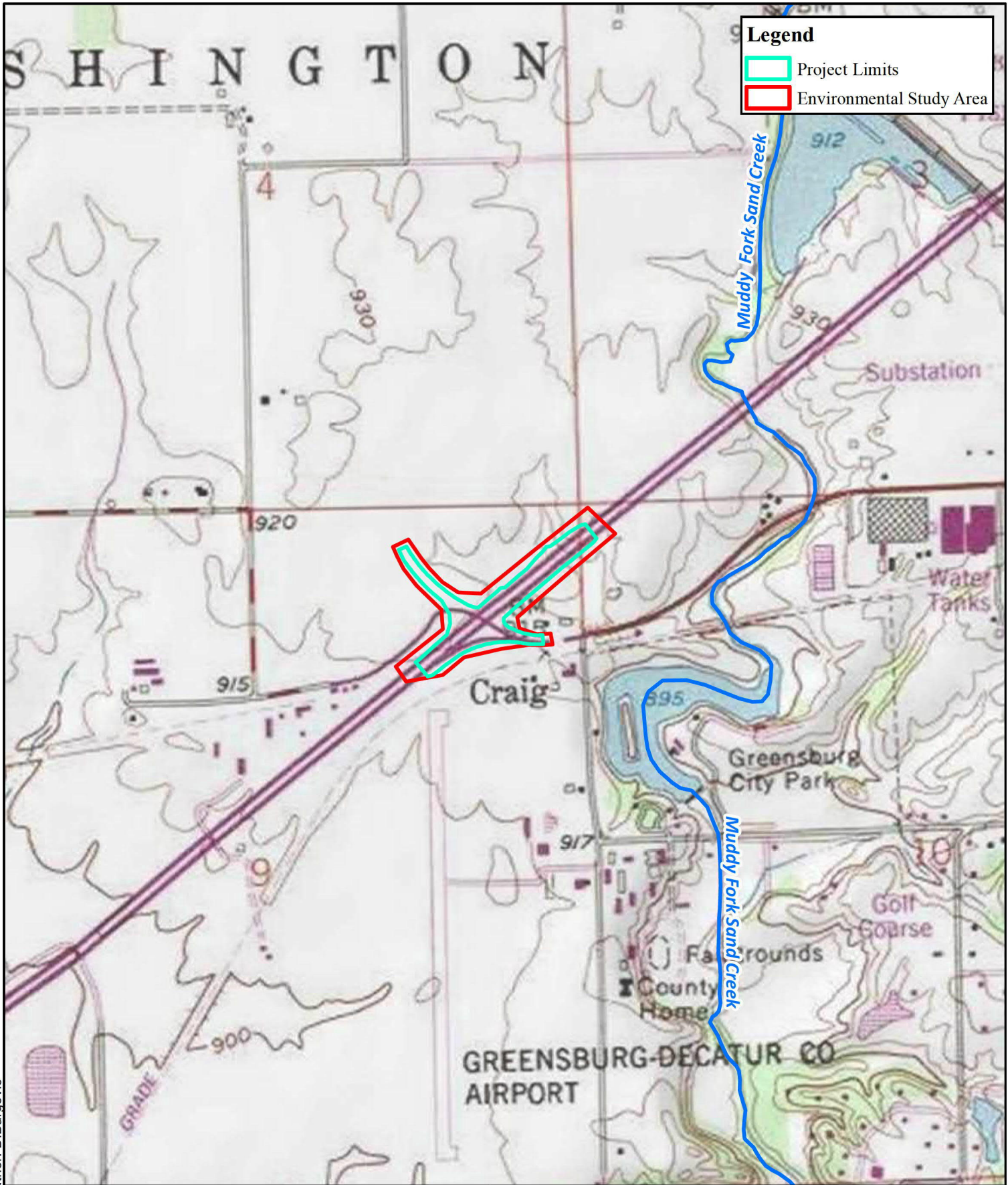
DES 1700050

**USGS Project Location Map**

SR 46 and SR 3 Intersection Improvement  
Decatur County, Indiana

Service Layer Credits:  
Copyright: © 2013 National Geographic Society, I-cubed  
Forest Hill USGS Quadrangle • Date: 1993





**Legend**

- Project Limits
- Environmental Study Area

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**CH2M**

**USGS Project Location Map**

SR 46 and SR 3 Intersection Improvement  
Decatur County, Indiana

Scale 1" = 1000'

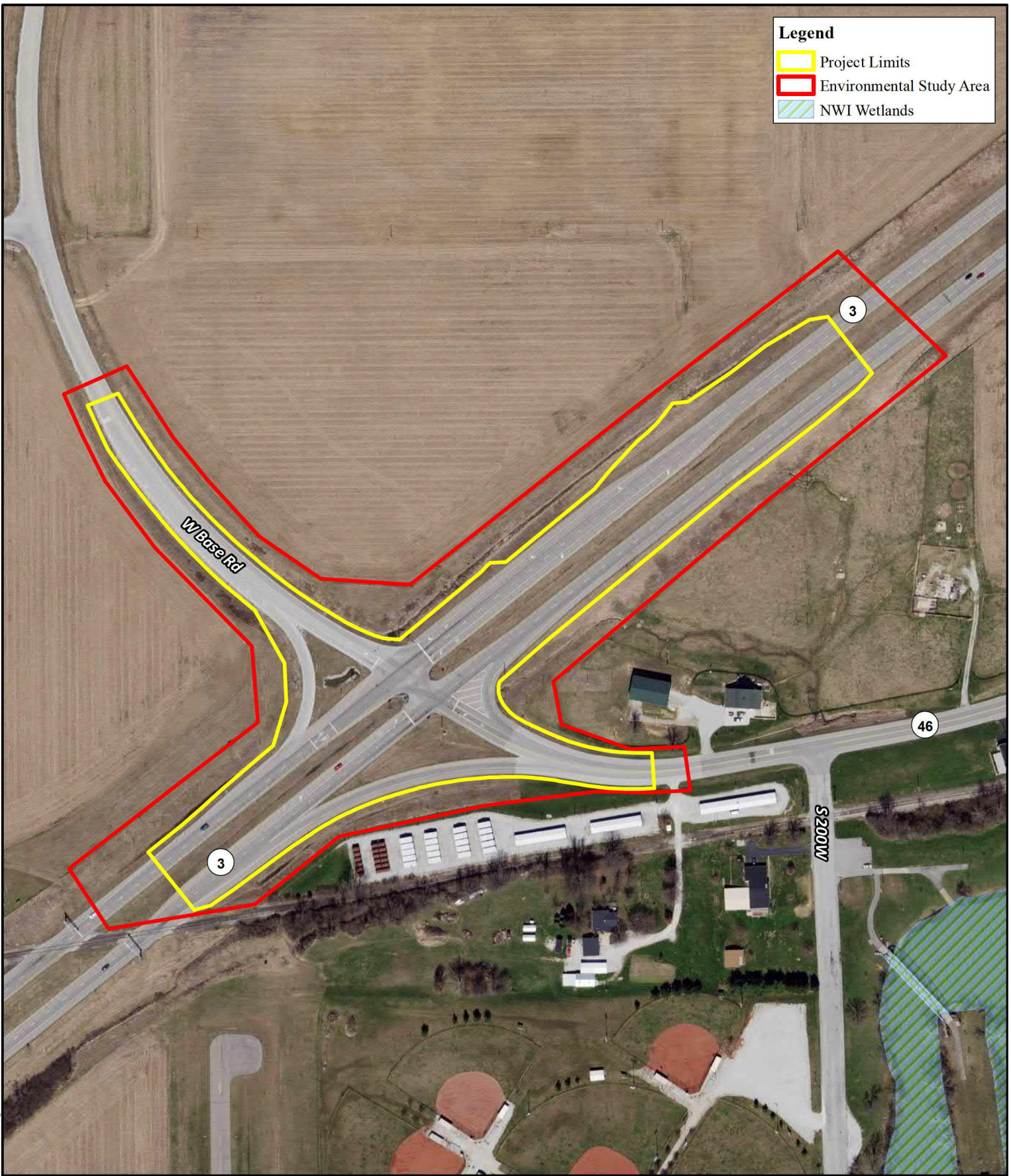
DES 1700050

Service Layer Credits:  
Copyright: © 2013 National Geographic Society, I-cubed  
Forest Hill USGS Quadrangle • Date: 1993



**Legend**

- Project Limits
- Environmental Study Area
- NWI Wetlands



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Scale 1" = 250'

DES 1700050

## NWI Wetlands Map

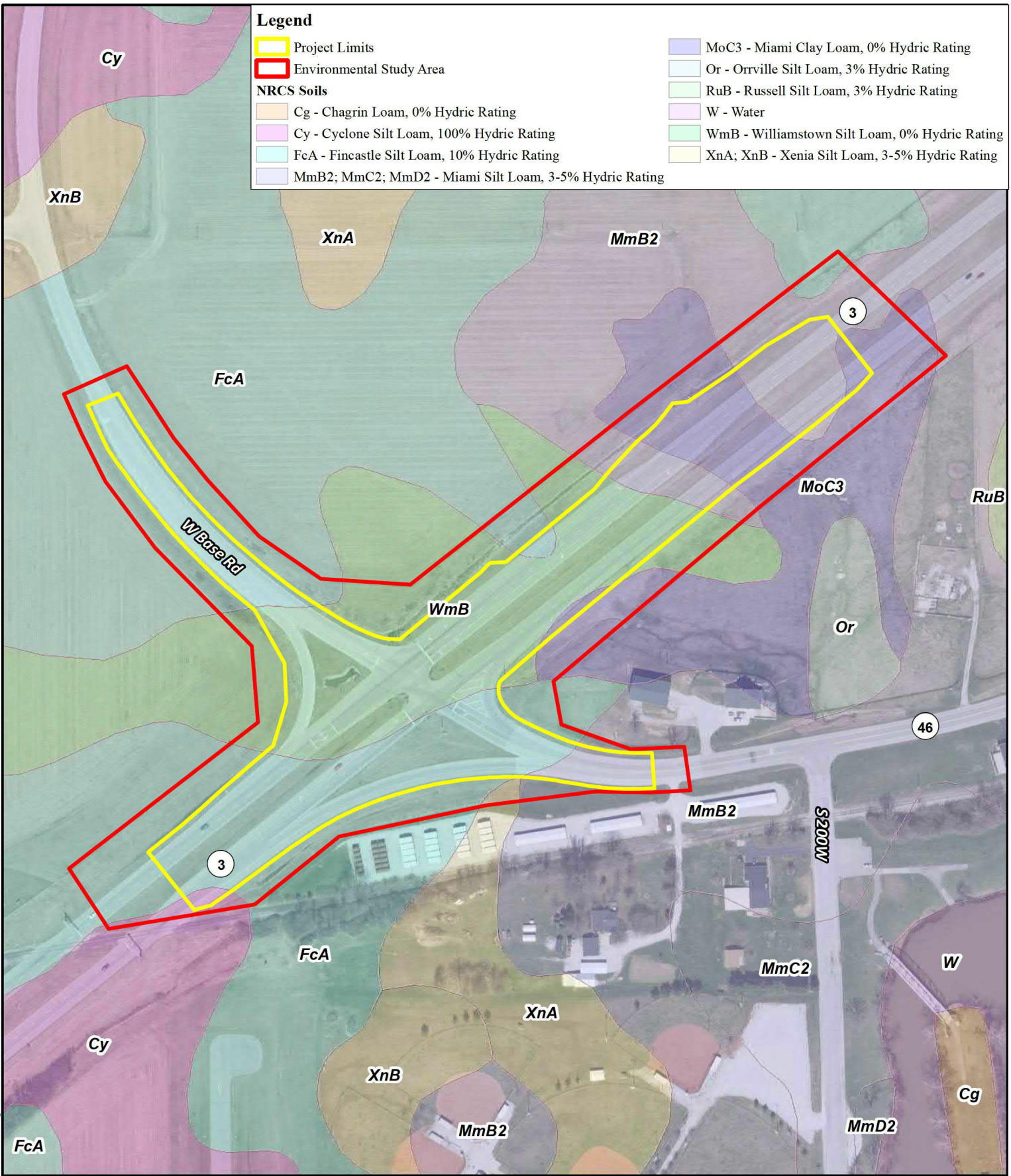
SR 46 and SR 3 Intersection Improvement  
Decatur County, Indiana

*Image Courtesy of the IndianaMap - Photo Date: 2017  
NWI Wetland data courtesy of the  
National Wetlands Inventory produced by the U.S. Fish and Wildlife Service*



**Legend**

- Project Limits
- Environmental Study Area
- NRCS Soils**
- Cg - Chagrin Loam, 0% Hydric Rating
- Cy - Cyclone Silt Loam, 100% Hydric Rating
- FcA - Fincastle Silt Loam, 10% Hydric Rating
- MmB2; MmC2; MmD2 - Miami Silt Loam, 3-5% Hydric Rating
- MoC3 - Miami Clay Loam, 0% Hydric Rating
- Or - Orrville Silt Loam, 3% Hydric Rating
- RuB - Russell Silt Loam, 3% Hydric Rating
- W - Water
- WmB - Williamstown Silt Loam, 0% Hydric Rating
- XnA; XnB - Xenia Silt Loam, 3-5% Hydric Rating



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**NRCS Soils Map**

SR 46 and SR 3 Intersection Improvement  
Decatur County, Indiana






Scale 1" = 250'

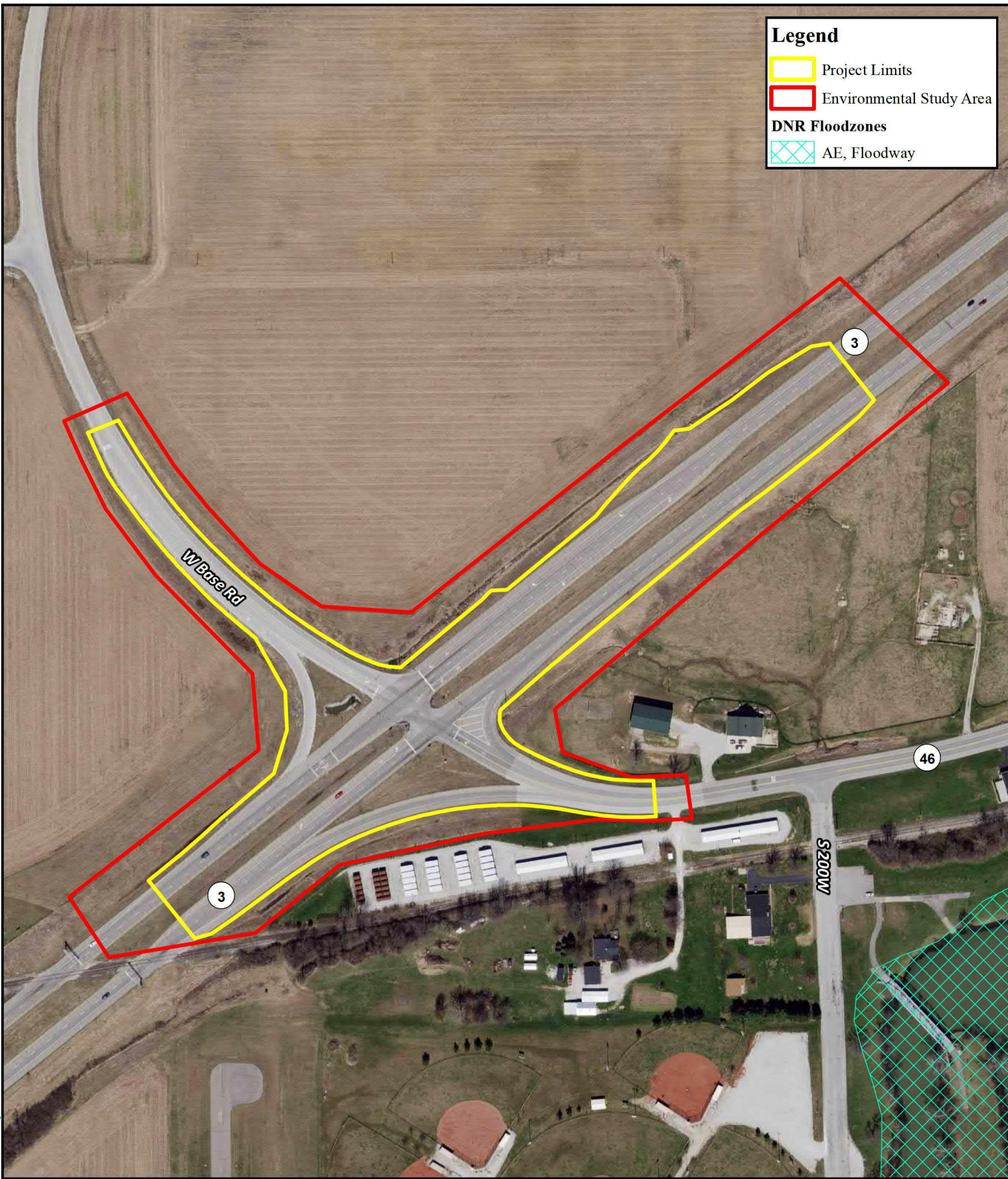
DES 1700050

Image Courtesy of the Indiana Map - Photo Date: 2017  
Soil Data Courtesy of the Natural Resource Conservation Service



**Legend**

-  Project Limits
-  Environmental Study Area
- DNR Floodzones**
-  AE, Floodway



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**IDNR Floodzones Map**

SR 46 and SR 3 Intersection Improvement  
Decatur County, Indiana

*Image Courtesy of the IndianaMap  
Photo Date: 2017*

*Floodzones Courtesy of the Indiana Department of Natural Resources*



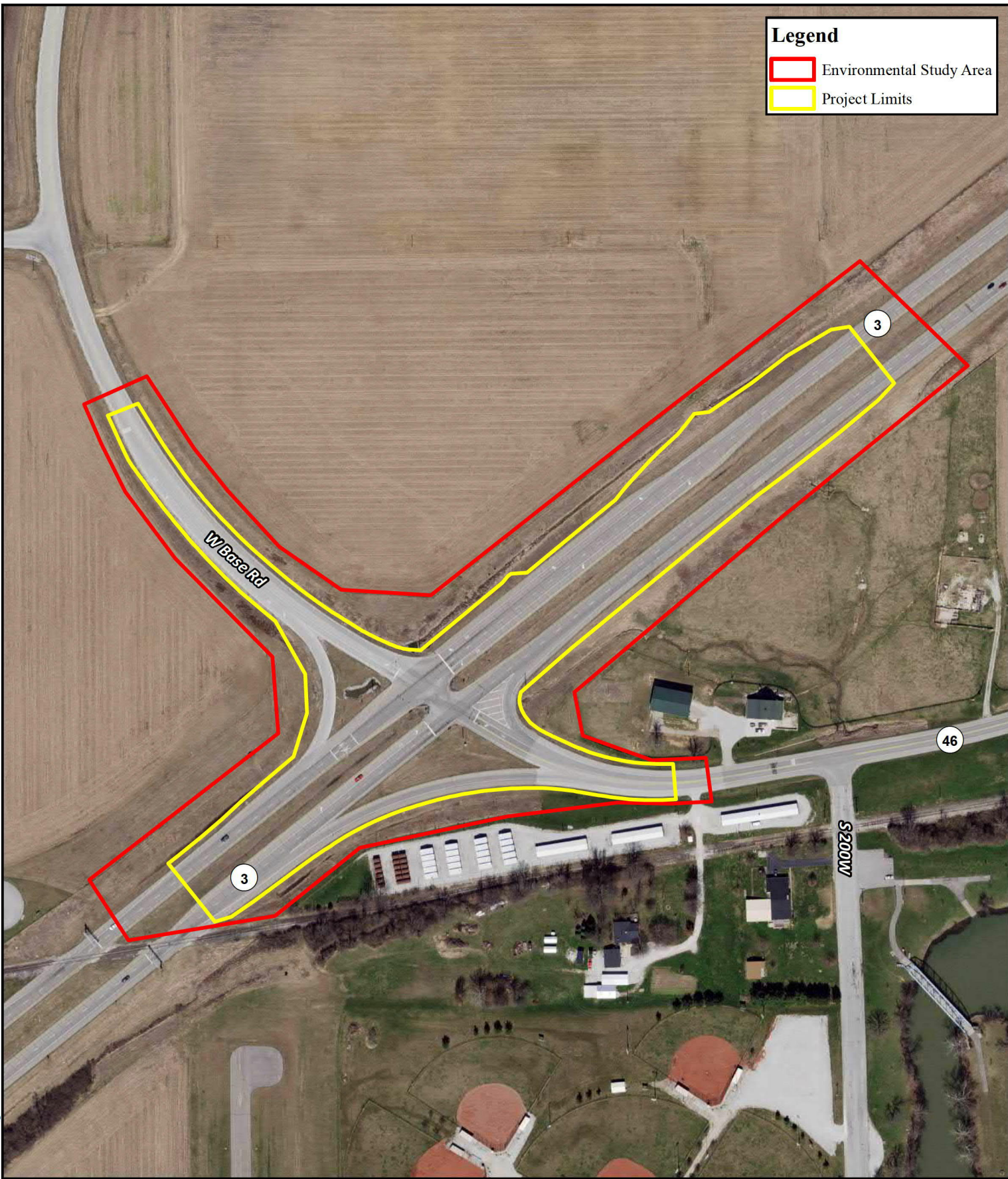
Scale 1" = 250'

Des 1700050



**Legend**

- Environmental Study Area
- Project Limits



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Scale 1" = 250'

DES 1700050

### Aerial Location Map

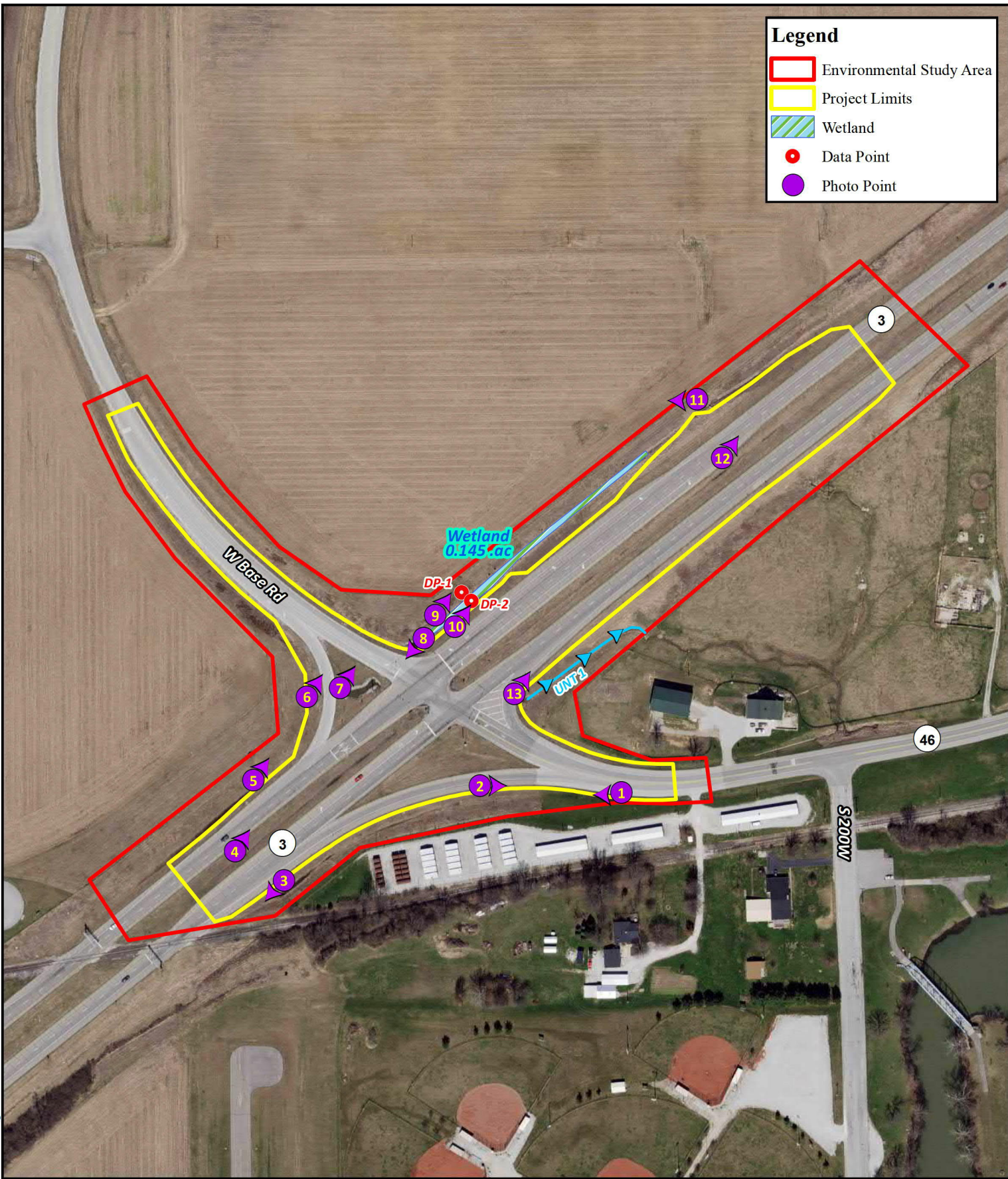
SR 46 and SR 3 Intersection Improvement  
Decatur County, Indiana

Image Courtesy of the IndianaMap  
Photo Date: 2017



**Legend**

- Environmental Study Area
- Project Limits
- Wetland
- Data Point
- Photo Point



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Scale 1" = 250'

DES 1700050

### Photo Orientation Map

SR 46 and SR 3 Intersection Improvement  
Decatur County, Indiana

Image Courtesy of the IndianaMap  
Photo Date: 2017



Appendix B: Wetland Delineation Photographs



PP-1: Looking west from the southeast side of the project area along SR 46 (2019-10-14)

SR 3 and SR 46 North Junction Des. No. 1700050



PP-2: Looking east at the southwest junction from SR 3 to SR 46 (2019-10-14)



PP-3: Looking southwest from the southwest side of the project area along SR 3 (2019-10-14)



PP-4: Looking northeast from the median of SR 3 at the western portion of the project area (2019-10-14)



Appendix B: Wetland Delineation Photographs



PP-5: Looking northeast along SR 3 from the northwest junction from SR 46 to SR 3 (2019-10-14)

SR 3 and SR 46 North Junction Des. No. 1700050



PP-6: Looking northeast at the culverts under the SR 46 junction to SR 3 on the northwest side of the project area (2019-10-14)



PP-7: Looking northeast at the riprap and culverts on the northwest side of the project area (2019-10-14)



PP-8: Looking northeast at the culverts and riprap at the west side of the Wetland A (2019-10-14)



Appendix B: Wetland Delineation Photographs



PP-8: Looking southwest at the culverts and riprap at the south end of Wetland A (2019-10-14)

SR 3 and SR 46 North Junction Des. No. 1700050



PP-9: Looking northeast from DP-1 along Wetland A (2019-10-14)



PP-9: Looking down at the soil profile for DP-1 in Wetland A (2019-10-14)



PP-10: Looking at the upland area northeast adjacent to Wetland A from DP-2 (2019-10-14)



Appendix B: Wetland Delineation Photographs

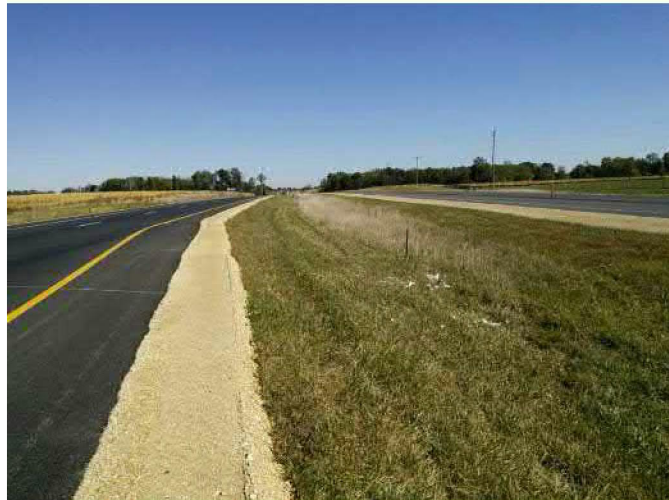


PP-10: Looking down at the upland soil profile of DP-2 adjacent to Wetland A (2019-10-14)

SR 3 and SR 46 North Junction Des. No. 1700050



PP-11: Looking west at the culvert located east of Wetland A (2019-10-14)



PP-12: Looking northeast from SR 3 median on the east end of the project area (2019-10-14)



PP-13: Looking northeast at UNT 1 along SR 3 downstream (2019-10-14)

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: SR 46 and SR 3 Junction Intersection Improvement Des. No. 1700050 City/County: Decatur County Sampling Date: 14-Oct-19

Applicant/Owner: INDOT State: Indiana Sampling Point: DP-1

Investigator(s): M. Baughman & M. Knotts Section, Township, Range: S 9 T 10 R 9

Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): concave

Slope:      /      ° Lat.: 39.334058 Long.: -85.521138 Datum: NAD 1983

Soil Map Unit Name: Williamstown Silt Loam NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

**VEGETATION - Use scientific names of plants.**

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>    </u> )				
1. <u>    </u>	0	<input type="checkbox"/> 0.0%		
2. <u>    </u>	0	<input type="checkbox"/> 0.0%		
3. <u>    </u>	0	<input type="checkbox"/> 0.0%		
4. <u>    </u>	0	<input type="checkbox"/> 0.0%		
5. <u>    </u>	0	<input type="checkbox"/> 0.0%		
	0	= Total Cover		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>    </u> )				
1. <u>    </u>	0	<input type="checkbox"/> 0.0%		
2. <u>    </u>	0	<input type="checkbox"/> 0.0%		
3. <u>    </u>	0	<input type="checkbox"/> 0.0%		
4. <u>    </u>	0	<input type="checkbox"/> 0.0%		
5. <u>    </u>	0	<input type="checkbox"/> 0.0%		
	0	= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>5 feet</u> )				
1. Typha X glauca	90	<input checked="" type="checkbox"/> 90.0%	OBL	
2. Scirpus atrovirens	10	<input type="checkbox"/> 10.0%	OBL	
3. <u>    </u>	0	<input type="checkbox"/> 0.0%		
4. <u>    </u>	0	<input type="checkbox"/> 0.0%		
5. <u>    </u>	0	<input type="checkbox"/> 0.0%		
6. <u>    </u>	0	<input type="checkbox"/> 0.0%		
7. <u>    </u>	0	<input type="checkbox"/> 0.0%		
8. <u>    </u>	0	<input type="checkbox"/> 0.0%		
9. <u>    </u>	0	<input type="checkbox"/> 0.0%		
10. <u>    </u>	0	<input type="checkbox"/> 0.0%		
	100	= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>    </u> )				
1. <u>    </u>	0	<input type="checkbox"/> 0.0%		
2. <u>    </u>	0	<input type="checkbox"/> 0.0%		
	0	= Total Cover		

**Dominance Test worksheet:**

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of: Multiply by:

OBL species	<u>100</u>	x 1 =	<u>100</u>
FACW species	<u>0</u>	x 2 =	<u>0</u>
FAC species	<u>0</u>	x 3 =	<u>0</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>

Column Totals: 100 (A) 100 (B)

Prevalence Index = B/A = 1.000

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is > 50%

3 - Prevalence Index is ≤ 3.0 <sup>1</sup>

4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes  No

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

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



**SOIL**

Sampling Point: DP-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>			
0-3	10YR	4/1	90	7.5YR	4/6	10	C	M	Silty Clay Loam	
3-18	10YR	5/1	75	10YR	6/8	25	C	M	Silty Clay Loam	

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

**Hydric Soil Indicators:**

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?** Yes  No

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

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

**Field Observations:**

Surface Water Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): <u>0</u>	<p><b>Wetland Hydrology Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/></p>
Water Table Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): <u>0</u>	
Saturation Present? (Includes capillary fringe)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): <u>0</u>	

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

Remarks:

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: SR 46 and SR 3 Junction Intersection Improvement Des. No. 1700050 City/County: Decatur County Sampling Date: 14-Oct-19

Applicant/Owner: INDOT State: Indiana Sampling Point: DP-2

Investigator(s): M. Baughman & M. Knotts Section, Township, Range: S 9 T 10 R 9

Landform (hillslope, terrace, etc.): Hillside Local relief (concave, convex, none): concave

Slope:        /        ° Lat.: 39.44007 Long.: -85.521089 Datum: NAD 1983

Soil Map Unit Name: Williamstown Silt Loam NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

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

**VEGETATION - Use scientific names of plants.**

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	
<b>Tree Stratum</b> (Plot size: _____)				
1. _____	0	<input type="checkbox"/> 0.0%		
2. _____	0	<input type="checkbox"/> 0.0%		
3. _____	0	<input type="checkbox"/> 0.0%		
4. _____	0	<input type="checkbox"/> 0.0%		
5. _____	0	<input type="checkbox"/> 0.0%		
0 = Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot size: _____)				
1. _____	0	<input type="checkbox"/> 0.0%		
2. _____	0	<input type="checkbox"/> 0.0%		
3. _____	0	<input type="checkbox"/> 0.0%		
4. _____	0	<input type="checkbox"/> 0.0%		
5. _____	0	<input type="checkbox"/> 0.0%		
0 = Total Cover				
<b>Herb Stratum</b> (Plot size: <u>5</u> )				
1. <u>Festuca arundinacea</u>	90	<input checked="" type="checkbox"/> 90.0%	FACU	
2. <u>Setaria pumila</u>	5	<input type="checkbox"/> 5.0%	FAC	
3. <u>Poa pratensis</u>	5	<input type="checkbox"/> 5.0%	FAC	
4. _____	0	<input type="checkbox"/> 0.0%		
5. _____	0	<input type="checkbox"/> 0.0%		
6. _____	0	<input type="checkbox"/> 0.0%		
7. _____	0	<input type="checkbox"/> 0.0%		
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
100 = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: _____)				
1. _____	0	<input type="checkbox"/> 0.0%		
2. _____	0	<input type="checkbox"/> 0.0%		
0 = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of: Multiply by:

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 10 x 3 = 30

FACU species 90 x 4 = 360

UPL species 0 x 5 = 0

Column Totals: 100 (A) 390 (B)

Prevalence Index = B/A = 3.900

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is > 50%

3 - Prevalence Index is ≤ 3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes  No

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

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



**SOIL**

Sampling Point: DP-2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR	4/3	100				Silty Clay Loam	
5-18	10YR	5/3	100				Silty Clay Loam	

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

**Hydric Soil Indicators:**

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

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?** Yes  No

Remarks:  
 No hydric soils indicators were observed

**HYDROLOGY**

**Wetland Hydrology Indicators:**

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

**Field Observations:**

Surface Water Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): <u>0</u>	<b>Wetland Hydrology Present?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>
Water Table Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): <u>0</u>	
Saturation Present? (Includes capillary fringe)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): <u>0</u>	

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

Remarks:  
 No hydrology indicators were observed



**Attachment D**

**SR 3 and SR 46 North Junction**

**PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM**

**BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR PJD:** March 31, 2020

**B. NAME AND ADDRESS OF PERSON REQUESTING PJD:**  
Mackenzie Knotts, CHA Consulting Inc., Union Station, 300 S Meridian Street, Indianapolis, IN 46225 for Indiana Department of Transportation

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

**D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:**  
The Indiana Department of Transportation (INDOT) is proposing to proceed with the improvements of the State Road (SR) 3 and SR 46 north junction in Washington Township, Decatur County, Indiana. The project is located at the SR 3 and SR 46 north junction, near reference post 117 on SR 3.

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

Project: SR 3 and SR 46 north junction improvements, Des. No. 1700050

State: Indiana County: Decatur County City: southwest of Greensburg

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

Lat.: 39.333493 Long.: -85.521228

Universal Transverse Mercator: 16S 627449.00, 4354828.31

Name of nearest waterbody: Greensburg City Park Lake

**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.**

Resource Name	Latitude	Longitude	Amount of Aquatic Resource in Review Area	Type of Aquatic Resource	Geographic authority to which the aquatic resource "may be" subject
Wetland A	39.334204	-85.520882	0.145 acre	Emergent Wetland	Section 404
UNT 1	39.333690	-85.520524	281 linear feet	Ephemeral, Non-Wetland Waters	Section 404



## Attachment D

### SR 3 and SR 46 North Junction

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



**Attachment D**

**SR 3 and SR 46 North Junction**

**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: \_\_\_\_\_
- 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: 1:24,000 Forest Hill, Indiana Quadrangle.
- Natural Resources Conservation Service Soil Survey. Citation: NRCS Web Soil Survey.
- National wetlands inventory map(s). Cite name: USFWS NWI Mapper.  
State/local wetland inventory map(s): \_\_\_\_\_.
- FEMA/FIRM maps: DNR Best Available Floodplain Maps.
- 100-year Floodplain Elevation is: \_\_\_\_\_.(National Geodetic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date): IndianaMap 2017.  
  
or  Other (Name & Date): Site Photos October 14, 2019.
- 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

*Mackensi Knott* **03/31/2020**

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

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



## Appendix G

### Air Quality

Item	Appendix
Statewide Transportation Improvement Plan (STIP)	G-1 to G-2



Indiana Department of Transportation (INDOT)  
 State Preservation and Local Initiated Projects FY 2018 - 2021

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2018	2019	2020	2021
Indiana Department of Transportation	40378 / 1296326	A 37	I 74	HMA Overlay, Preventive Maintenance	From SR 3 to New Point Interchange	Seymour	8.993	NHPP	\$6,000,000.00	Road Construction	CN	-\$6,449,749.20	-\$716,638.80		(\$12,448,178.00)	\$5,281,790.00	
Comments:Move to 2020.																	
Indiana Department of Transportation	40378 / 1296326	Init.	I 74	HMA Overlay, Preventive Maintenance	From SR 3 to New Point Interchange	Seymour	8.993	NHPP		Road Construction	CN	\$11,203,360.20	\$1,244,817.80		\$12,448,178.00		
										Road Consulting	PE	\$180,000.00	\$20,000.00	\$200,000.00			
Indiana Department of Transportation	40426 / 1602260	A 01	SR 3	Small Structure Replacement	At 16.17 miles N of SR 7	Seymour	0	STP	\$1,083,425.00	Bridge ROW	RW	\$8,000.00	\$2,000.00				\$10,000.00
										Bridge Consulting	PE	\$86,400.00	\$21,600.00	\$108,000.00			
Comments:Amend PE phase in FY 2018 and RW phase in FY 2021 to the current STIP. No MPO.																	
Indiana Department of Transportation	40426 / 1602260	M 09	SR 3	Small Structure Replacement	At 16.17 miles N of SR 7	Seymour	0	STP	\$1,175,425.00	Bridge Consulting	PE	\$73,600.00	\$18,400.00	(\$108,000.00)	\$200,000.00		
Comments:Move PE from FY 2018 to FY 2019 and increase. No MPO.																	
Indiana Department of Transportation	40427 / 1700050	A 06	SR 3	Other Intersection Improvement	At the intersection of SR 3 and SR 46 (North Junction)	Seymour	0.25	NHPP	\$1,579,672.00	Safety Consulting	PE	\$160,000.00	\$40,000.00		\$200,000.00		
Comments:Amend PE phase in FY 2019 to current STIP. No MPO.																	
Indiana Department of Transportation	40428 / 1600489	A 01	SR 46	Bridge Deck Replacement	0.9 mile E US 421, over Sand Creek	Seymour	0	STP	\$1,227,000.00	Bridge Consulting	PE	\$100,000.00	\$25,000.00	\$125,000.00			
Comments:Amend PE phase in FY 2018 to the current STIP. No MPO.																	
Indiana Department of Transportation	40428 / 1600489	M 09	SR 46	Bridge Deck Replacement	0.9 mile E US 421, over Sand Creek	Seymour	0	STP	\$1,227,000.00	Bridge Consulting	PE	\$0.00	\$0.00	(\$125,000.00)	\$125,000.00		
Comments:Move PE phase from FY 2018 to FY 2019. No MPO.																	
Indiana Department of Transportation	40428 / 1602278	A 01	SR 46	Small Structure Replacement	At 9.29 miles E of East Jct of US 421	Seymour	0	STP	\$512,781.00	Bridge Consulting	PE	\$86,400.00	\$21,600.00	\$108,000.00			
										Bridge ROW	RW	\$8,000.00	\$2,000.00			\$10,000.00	
Comments:Amend PE phase in FY 2018 and RW phase in FY 2021 to the current STIP. No MPO.																	
Indiana Department of Transportation	40428 / 1602278	M 09	SR 46	Small Structure Replacement	At 9.29 miles E of E Jct of US 421	Seymour	0	STP	\$512,781.00	Bridge Consulting	PE	\$0.00	\$0.00	(\$108,000.00)	\$108,000.00		
Comments:Move PE phase from FY 2018 to FY 2019. No MPO.																	
Indiana Department of Transportation	40655 / 1600502	M 10	US 421	Br Repl, Reinforced Conc. Construction	5.33 miles N of SR 229 over Vernon Fk Muscatatuck River	Seymour	0	NHPP	\$1,813,882.00	Bridge Consulting	PE	\$0.00	\$0.00	(\$150,000.00)	\$150,000.00		
										Bridge Construction	CN	\$290,743.20	\$72,685.80			\$363,429.00	
Comments:Move PE phase from FY 2018 to FY 2019. Increase in CN. No MPO.																	
Indiana Department of Transportation	40935 / 1801200	A 17	US 421	Small Structure Maint and Repair	7.40 miles N of SR 229	Seymour	0	NHPP	\$105,249.00	Bridge Construction	CN	\$68,199.20	\$17,049.80			\$85,249.00	

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



Indiana Department of Transportation (INDOT)  
 State Preservation and Local Initiated Projects FY 2020 - 2024

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024
Indiana Department of Transportation	40426 / 1602260	Init.	SR 3	Small Structure Replacement	At 16.17 miles N of SR 7	Seymour	0	STPBG		Bridge Construction	CN	\$716,340.00	\$179,085.00			\$895,425.00		
Indiana Department of Transportation	40427 / 1700050	Init.	SR 3	Other Intersection Improvement	At the intersection of SR 3 and SR 46 (North Junction)	Seymour	25	NHPP		Safety Construction	CN	\$1,159,825.60	\$289,956.40			\$1,449,782.00		
Indiana Department of Transportation	40428 / 1600489	Init.	SR 46	Bridge Deck Replacement	0.9 mile E US 421, over Sand Creek	Seymour	0	STPBG		Bridge ROW	RW	\$64,000.00	\$16,000.00		\$80,000.00			
										Bridge Construction	CN	\$1,319,610.40	\$329,902.60			\$1,649,513.00		
Indiana Department of Transportation	40655 / 1600502	Init.	US 421	Br Repl, Reinforced Conc. Construction	5.33 miles N of SR 229 over Vernon Fk Muscatatuck River	Seymour	0	NHPP		Bridge ROW	RW	\$16,000.00	\$4,000.00	\$20,000.00				
										Bridge Consulting	PE	\$80,000.00	\$20,000.00		\$100,000.00			
										Bridge Construction	CN	\$1,147,072.80	\$286,768.20		\$1,433,841.00			
Indiana Department of Transportation	40935 / 1801200	Init.	US 421	Small Structure Maint and Repair	7.40 miles N of SR 229	Seymour	0	NHPP		Bridge Construction	CN	\$126,964.80	\$31,741.20	\$168,706.00				
Indiana Department of Transportation	40945 / 1800964	Init.	SR 3	HMA Overlay, Preventive Maintenance	0.49 miles N of I-74 to 6.26 miles N of I-74 (District line)	Seymour	5.76	NHPP		Road Construction	CN	\$1,260,298.40	\$315,074.60		\$1,575,373.00			
Indiana Department of Transportation	40946 / 1800972	Init.	SR 46	HMA Overlay, Preventive Maintenance	0.83 miles E of E Jct US 421 (Base Rd.) to 0.29 miles W of SR 229	Seymour	13.563	STPBG		Bridge Construction	CN	\$2,570,727.20	\$642,681.80		\$3,213,409.00			
Indiana Department of Transportation	41272 / 1801416	Init.	I 74	ITS Traffic Management Systems	CCTV Cameras/Detection from US 421 to US 52	Seymour	37.131	NHPP		Statewide Construction	CN	\$787,500.00	\$87,500.00	\$875,000.00				
Indiana Department of Transportation	41460 / 1801008	Init.	US 421	Small Structure Replacement	10.91 mi N of SR 229	Seymour	0	NHPP		Bridge ROW	RW	\$32,000.00	\$8,000.00		\$40,000.00			
										Bridge Consulting	PE	\$554,400.00	\$138,600.00	\$680,000.00			\$13,000.00	
										Bridge Construction	CN	\$600,686.40	\$150,171.60				\$750,858.00	
Indiana Department of Transportation	41463 / 1800256	Init.	SR 46	Pavement Replacement	E Jct US 421 to 0.83 miles E of E Jct US 421 (Base Rd)	Seymour	.839	NHPP		Road ROW	RW	\$320,000.00	\$80,000.00		\$400,000.00			
										Road Construction	CN	\$5,636,281.60	\$1,409,070.40			\$4,000.00	\$7,041,352.00	
Indiana Department of Transportation	42527 / 1802985	A 04	US 421	Small Structure Replacement	03.45 mile N of SR 229	Seymour	0	STBGB	\$812,383.00	Bridge ROW	RW	\$32,000.00	\$8,000.00			\$40,000.00		
										Bridge Consulting	PE	\$200,000.00	\$50,000.00	\$250,000.00				
										Bridge Construction	CN	\$417,906.40	\$104,476.60					\$522,383.00

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

## Appendix H

### Additional Studies

Item	Appendix Page
DOI Land & Water Conservation Fund Grants	H-1



United States Department of the Interior  
National Park Service  
Land & Water Conservation Fund  
Decatur County LWCF Project List

Grant ID & Element	State	County	Grant ID Element	Type	Grant Element Title	Grant Sponsor	Fiscal Year	Amount
60772	Indiana	DECATUR	426	D	PARK LAKE DREDGING	DECATUR COUNTY PARK BOARD	1984	100000

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