

**Lead Des 1801915**  
**Appendix E**  
**Red Flag Investigation**



Date: September 27, 2021

To: Site Assessment & Management  
Environmental Policy Office - Environmental Services Division (ESD)  
Indiana Department of Transportation  
100 N Senate Avenue, Room N642  
Indianapolis, IN 46204

From: Ty Gallahan, SJCA Inc  
Fort Wayne District  
1028 Virginia Ave, Suite 201  
Indianapolis, IN 46203  
tgallahan@sjcainc.com

Re: RED FLAG INVESTIGATION  
DES 1801915, State Project  
Bridge Project  
North East Street over Norfolk Southern Railroad, 0.08 Miles North of East Hill Street  
Wabash County, Indiana

**PROJECT DESCRIPTION**

**Brief Description of Project:** The City of Wabash, with funding from the Indiana Department of Transportation (INDOT), proposes to rebuild a portion of East Street over Norfolk Southern Railroad. The rebuild will include a new bridge over the Norfolk Southern Railroad to eliminate the need for the at-grade crossings north and south of the proposed bridge. No existing bridges are within the project area. The East Street roadway will provide a two-lane cross-section with 11-foot travel lanes and 10-foot clear zones, for a total width of 42 feet. On the western side, the clear zone will consist of a 2.58-foot shoulder and a 7.42-foot clear area with guardrail along the bridge approach. On the eastern side, the clear zone will consist of a 2.58-foot shoulder, a 6-foot sidewalk alongside it, and a 1.42-foot clear area with guardrail along the bridge approach.

**Bridge and/or Culvert Project:** Yes  No  Structure

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

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

**Proposed right of way:** Temporary  # Acres .05 Permanent  # Acres 1.14 Not Applicable

**Type and proposed depth of excavation:** Excavation will be required for the installation of three roadway tie-downs, one at the south end of East Street, one at the north end of East Street, and one at the west end of Maple Street, each with an excavation depth of 2 feet. Additionally, two mechanically-stabilized earth walls and two retaining walls will require excavation down to a depth of 4 feet.

**Maintenance of traffic:** East Street will be closed during the duration of the project, and traffic will be detoured to Hill Street, Elm Street, and Wabash Street. Specific detour routes will be selected by the City of Wabash to minimize the duration, distance, and traffic volume impact.

**Work in waterway:** Yes  No  Below ordinary high water mark: Yes  No

**State Project:**  LPA:

**Any other factors influencing recommendations:** N/A

During the design process, ROW acquisition amounts were updated. The project will acquire 1.898 acre of permanent ROW and 0.055 acre of temporary ROW.

**INFRASTRUCTURE TABLE AND SUMMARY**

<b>Infrastructure</b>			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	<b>5*</b>	Recreational Facilities	<b>3</b>
Airports <sup>1</sup>	<b>1</b>	Pipelines	<b>N/A</b>
Cemeteries	<b>N/A</b>	Railroads	<b>6</b>
Hospitals	<b>2*</b>	Trails	<b>7</b>
Schools	<b>1</b>	Managed Lands	<b>N/A</b>

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

**Explanation:**

**Religious Facilities:** Although not mapped on the GIS Layer, five (5) religious facilities are located within the 0.5 mile search radius. The nearest facility, Cathedral of Praise Church, is located 0.14 mile north of the project area. No impact is expected.

**Airports:** Although not located within the 0.5 mile search radius, one (1) public-use airport, Wabash Municipal Airport, is located within 3.8 miles (20,000 feet) of the project area. The public-use airport is located approximately 2.64 mile south of the project area; therefore, early coordination with INDOT Aviation will occur.

**Hospitals:** Two (2) hospitals, one (1) mapped and one (1) unmapped, are located within the 0.5 mile search radius. The nearest hospital, Wabash County Hospital, is located 0.39 mile north of the project area. No impact is expected.

**Schools:** One (1) school is located within the 0.5 mile search radius. The nearest school, Saint Bernard Elementary School, is located 0.5 mile west of the project area. No impact is expected.

**Recreational Facilities:** Three (3) recreational facilities are located within the 0.5 mile search radius. The nearest recreational facility, Hanna Park, is located adjacent to the project area. Coordination with Wabash Parks and Recreation Department will occur.

**Railroads:** Six (6) railroads are located within the 0.5 mile search radius. One (1) railroad, Norfolk Southern railroad, passes through the project area. Coordination with Norfolk Southern railroad will occur.

**Trails:** Seven (7) trail segments are located within the 0.5 miles search radius. The nearest trail segment, Lagro Road, is located 0.09 mile southeast of the project area. No impact is expected.

## WATER RESOURCES TABLE AND SUMMARY

<b>Water Resources</b>			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	<b>N/A</b>	Canal Routes - Historic	<b>1</b>
Karst Springs	<b>N/A</b>	NWI - Wetlands	<b>2</b>
Canal Structures – Historic	<b>1</b>	Lakes	<b>N/A</b>
NPS NRI Listed	<b>N/A</b>	Floodplain - DFIRM	<b>6</b>
NWI-Lines	<b>2</b>	Cave Entrance Density	<b>N/A</b>
IDEM 303d Listed Streams and Lakes (Impaired)	<b>2</b>	Sinkhole Areas	<b>N/A</b>
Rivers and Streams	<b>8</b>	Sinking-Stream Basins	<b>N/A</b>

### **Explanation:**

**Canal Structures – Historic:** One (1) historic canal structure was found within the 0.5 mile search radius. The nearest historic canal structure is located approximately 0.46 mile southwest of the project area. No impact is expected.

**NWI – Lines:** Two (2) NWI Lines are located within the 0.5 mile search radius. The nearest NWI Line is located approximately 0.37 mile south of the project area. No impact is expected.

**IDEM 303d Listed Streams and Lakes:** Three (3) 303d Listed Streams are located within the 0.5 mile search radius. The Wabash River is located approximately 0.16 mile southeast of the project area. The Wabash River is listed for E. coli, Nutrient Impairments, and Polychlorinated Biphenyls (PCBs). No impact is expected.

**Rivers and Streams:** Eight (8) river and stream segments are located within the 0.5 mile search radius. The nearest stream segment is located approximately 0.16 mile southeast of the project area. No impact is expected.

**Canal Routes – Historic:** One (1) historic canal route is located within the 0.5 mile search radius. The nearest historic canal structure is located approximately 0.12 mile southeast of the project area. No impact is expected.

**NWI – Wetlands:** Two (2) NWI Wetlands are located within the 0.5 mile search radius. The nearest NWI wetland is located approximately 0.36 miles south of the project area. No impact is expected.

**Floodplains:** Six (6) floodplain polygons are located within the 0.5 mile search radius. The nearest floodplain polygon is located approximately 0.14 mile southeast of the project area. No impact is expected.

## MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

<b>Mining/Mineral Exploration</b>			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	<b>1</b>	Mineral Resources	<b>N/A</b>
Mines – Surface	<b>N/A</b>	Mines – Underground	<b>N/A</b>

### **Explanation:**

**Petroleum Wells:** One (1) petroleum well is located within the 0.5 mile search radius. The nearest petroleum well is located approximately 0.16 mile southwest of the project area. No impact is expected.

**HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY**

<b>Hazardous Material Concerns</b>			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	<b>N/A</b>	Manufactured Gas Plant Sites	<b>1</b>
RCRA Generator/ TSD	<b>2</b>	Open Dump Waste Sites	<b>N/A</b>
RCRA Corrective Action Sites	<b>N/A</b>	Restricted Waste Sites	<b>N/A</b>
State Cleanup Sites	<b>1</b>	Waste Transfer Stations	<b>N/A</b>
Septage Waste Sites	<b>N/A</b>	Tire Waste Sites	<b>N/A</b>
Underground Storage Tank (UST) Sites	<b>11</b>	Confined Feeding Operations (CFO)	<b>N/A</b>
Voluntary Remediation Program	<b>1</b>	Brownfields	<b>6</b>
Construction Demolition Waste	<b>N/A</b>	Institutional Controls	<b>9*</b>
Solid Waste Landfill	<b>1*</b>	NPDES Facilities	<b>10</b>
Infectious/Medical Waste Sites	<b>N/A</b>	NPDES Pipe Locations	<b>N/A</b>
Leaking Underground Storage (LUST) Sites	<b>6</b>	Notice of Contamination Sites	<b>N/A</b>

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

**Explanation:**

**RCRA Generator/TSD:** Two (2) RCRA Generator Sites are located within the 0.5 mile search radius. The nearest RCRA Generator site, Hoefer Fred Amoco (6 W Hill St, AI# 54296), located approximately 0.36 mile west of the project area, was formerly the site of a gas station. According to IDEM documentation dated May 1, 2002, the site was considered a conditionally-exempt small quantity generator, but has since shut down, according to documentation dated December 11, 2019. No impact is expected.

**State Cleanup Sites:** One (1) State Cleanup Site is located within the 0.5 mile search radius. The nearest State Cleanup Site, JM Reynolds Oil Company (395 S Huntington St, AI# 10483), is located approximately 0.36 mile southwest of the project area. According to IDEM documentation dated June 12, 2019, an Environmental Restrictive Covenant (ERC) is forthcoming. The ERC specifically prohibits the use of groundwater, but not soil. No impact is expected.

**Underground Storage Tank (UST) Sites:** Eleven (11) Underground Storage Tank Sites are located within the 0.5 mile search radius. The nearest underground storage tank site, B & R Oil Swinger's 4 Way Shop (211 N Wabash, AI# 54597), located approximately 0.32 mile west of the project area, was formerly the site of a gas station. IDEM issued a No Further Action Approval Determination Pursuant to Remediation Closure Guide on October 6, 2008. Low levels of soil and groundwater contamination remain on the site. An Environmental Restrictive Covenant (ERC) was placed on the property on February 10, 2010. The ERC specifically prohibits the use of groundwater, but not soil. No impact is expected.

**Voluntary Remediation Programs:** One (1) Voluntary Remediation Program Site is located within the 0.5 mile search radius. The nearest voluntary remediation program site, Bulldog Battery Corporation (387 S Wabash St, AI# 11711), located approximately 0.38 mile southwest of the project area, was formerly the site of a manufactured gas plant. IDEM issued a No Further Action Approval Determination Pursuant to Remediation Closure Guide on August 14, 2017. Low levels of soil and groundwater contamination remain on the site. An Environmental Restrictive Covenant (ERC) was placed on the property on March 10, 2017. No impact is expected.

**Solid Waste Landfill:** Although no Solid Waste Landfills were mapped, one (1) antique landfill, Wabash Burning Dump (351 W Market St, AI# 57567), is located within the 0.5 mile search radius. This antique landfill is located approximately 0.14 mile south of the project area and was formerly the site of a landfill. According to an IDEM site investigation dated March 19, 1985, the site had been shut down approximately 15-20 years prior. The most recent IDEM documentation, dated August 8, 1995, shows a "No Further Remedial Action Plan" judgement was in development, but has not been recorded as of this date. Although no impacts are expected, coordination with IDEM Office of Land Quality will occur due to the lack of recent information available.

**Leaking Underground Storage Tank (LUST) Sites:** Six (6) Leaking Underground Storage Tank Sites are located within the 0.5 mile search radius. The nearest leaking underground storage tank site, Swifty Service Station #162 (111 N Wabash, AI# 10767), located approximately 0.33 mile west of the project area, was formerly the site of a gas station. IDEM issued a No Further Action Approval Determination Pursuant to Remediation Closure Guide on March 5, 2020. Low levels of soil and groundwater contamination remain on the site. An Environmental Restrictive Covenant (ERC) was placed on the property on November 11, 2019. No impact is expected.

**Manufactured Gas Plant Sites:** One (1) Manufactured Gas Plant Site is located within the 0.5 mile search radius. The nearest Manufactured Gas Plant Site, Bulldog Battery Corporation (387 S Wabash St, AI# 11711), located approximately 0.38 mile southwest of the project area, was formerly the site of a manufactured gas plant. Refer to the VRP Section for further information.

**Brownfields:** Six (6) Brownfield Sites are located within the 0.5 mile search radius. The nearest Brownfield Site, B & R Oil Swinger's 4 Way Shop (211 N Wabash, AI# 54597), located approximately 0.32 mile west of the project area, was formerly the site of a gas station. Refer to the UST Section for further information.

**Institutional Controls:** Nine (9) Institutional Control sites, seven (7) mapped and two (2) unmapped. The nearest Institutional Control Site, B & R Oil Swinger's 4 Way Shop (211 N Wabash, AI# 54597), located approximately 0.32 mile west of the project area, was formerly the site of a gas station. Refer to the UST Section for further information.

**NPDES Facilities:** Ten (10) NPDES Facilities are located within the 0.5 mile search radius. The closest site, Mill Creek Stone & Gravel Corp (Permit ID# IN0036471), is located approximately 0.11 mile west of the project area. The project's most recent permit expired on December 31, 2004. No impact is expected.

## **ECOLOGICAL INFORMATION SUMMARY**

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

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

## RECOMMENDATIONS SECTION

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

### INFRASTRUCTURE:

- **Airports:** One (1) public-use airport, Wabash Municipal Airport, is located approximately 2.64 mile south of the project area; therefore, early coordination with INDOT Aviation will occur.
- **Railroads:** One (1) railroad, Norfolk Southern railroad, passes through the project area. Coordination with Norfolk Southern railroad will occur.
- **Recreational Facilities:** One (1) recreational facility, Hanna Park, is located adjacent to the project area. Coordination with Wabash Parks and Recreation Department will occur.

**WATER RESOURCES:** N/A

**MINING/MINERAL EXPLORATION:** N/A

### HAZARDOUS MATERIAL CONCERNS:

- **Antique Landfill:** Wabash Burning Dump (351 W Market St, AI# 57567), located approximately 0.14 mile south of the project area, was formerly the site of a landfill. According to an IDEM site investigation dated March 19, 1985, the site had been shut down approximately 15-20 years prior. The most recent IDEM documentation, dated August 8, 1995, shows a “No Further Remedial Action Plan” judgement was in development, but has not been recorded as of this date. Although no impacts are expected, coordination with IDEM Office of Land Quality will occur due to the lack of recent information available.

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

INDOT ESD concurrence: Nicole Fohey-Breting Digitally signed by Nicole Fohey-Breting  
Date: 2021.09.30 19:35:07  
-04'00' (Signature)

Prepared by:  
Ty Gallahan  
GIS Admin  
SJCA Inc

### Graphics:

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

SITE LOCATION: YES

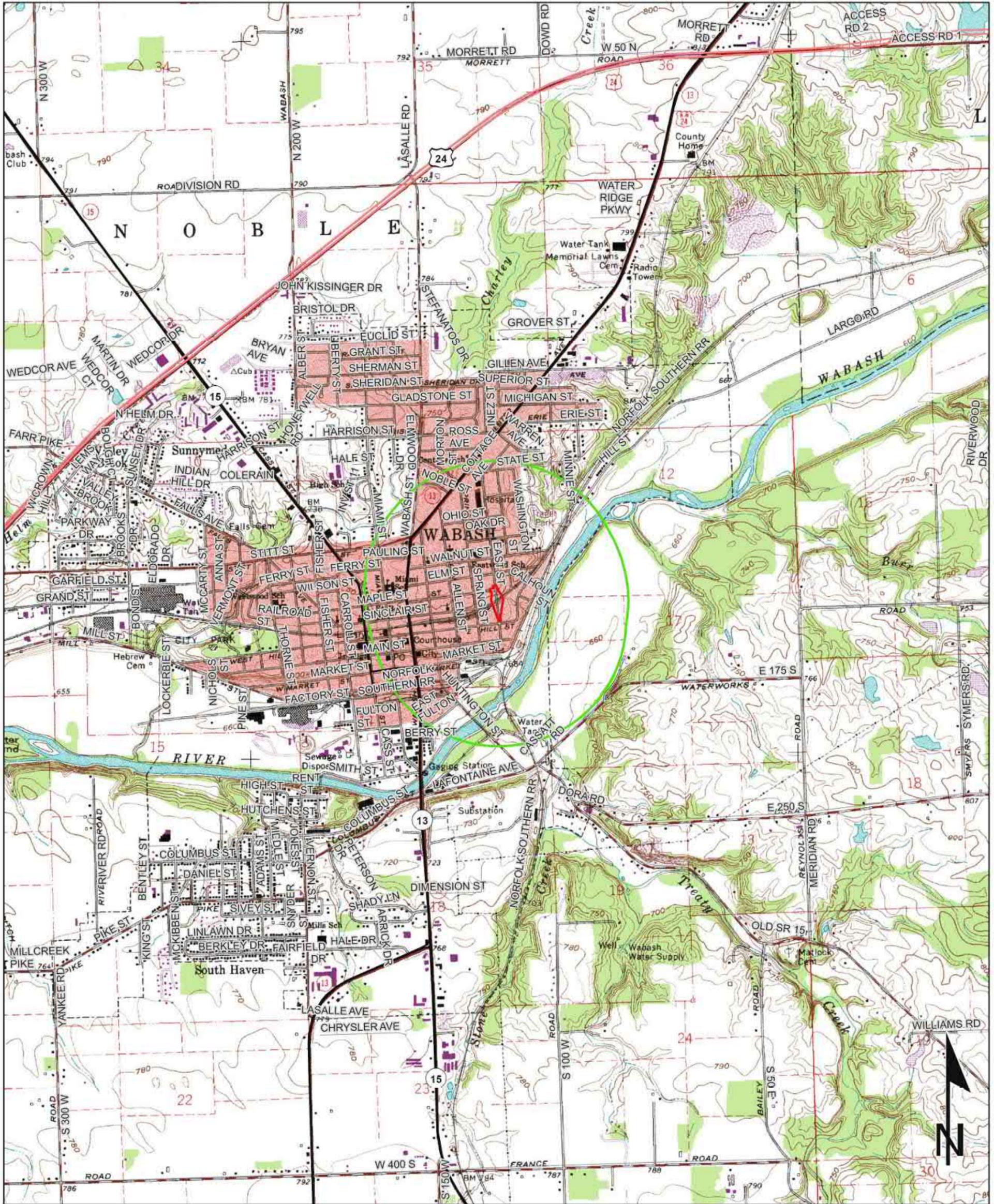
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Site Location  
 N East Street over Norfolk Southern Railroad, 0.08 Mile North of E Hill Street  
 Des. No. 1801915  
 Wabash County, Indiana



Sources: 0.45 0.23 0 0.45 Miles  
**Non Orthophotography**  
 Data - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
 Map Projection: UTM Zone 16 N Map Datum: NAD83  
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

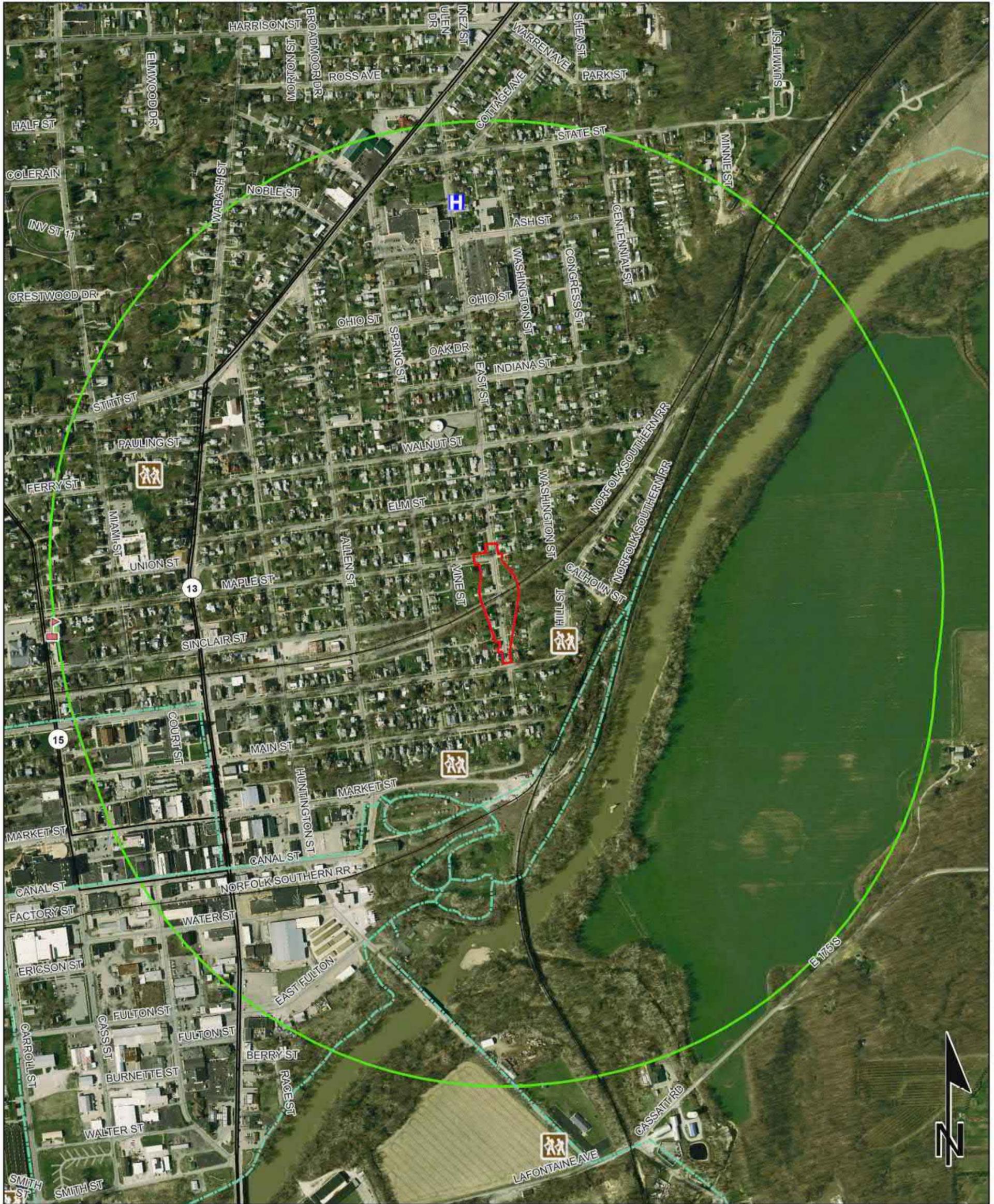
**WABASH QUADRANGLE  
 INDIANA  
 7.5 MINUTE SERIES  
 (TOPOGRAPHIC)**

# Red Flag Investigation - Infrastructure

## N East Street over Norfolk Southern Railroad, 0.08 Mile North of E Hill Street

### Des. No. 1801915

### Wabash County, Indiana



**Sources:** 0.1 0.05 0 0.1 Miles  
**Non Orthophotography**  
**Data** - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83  
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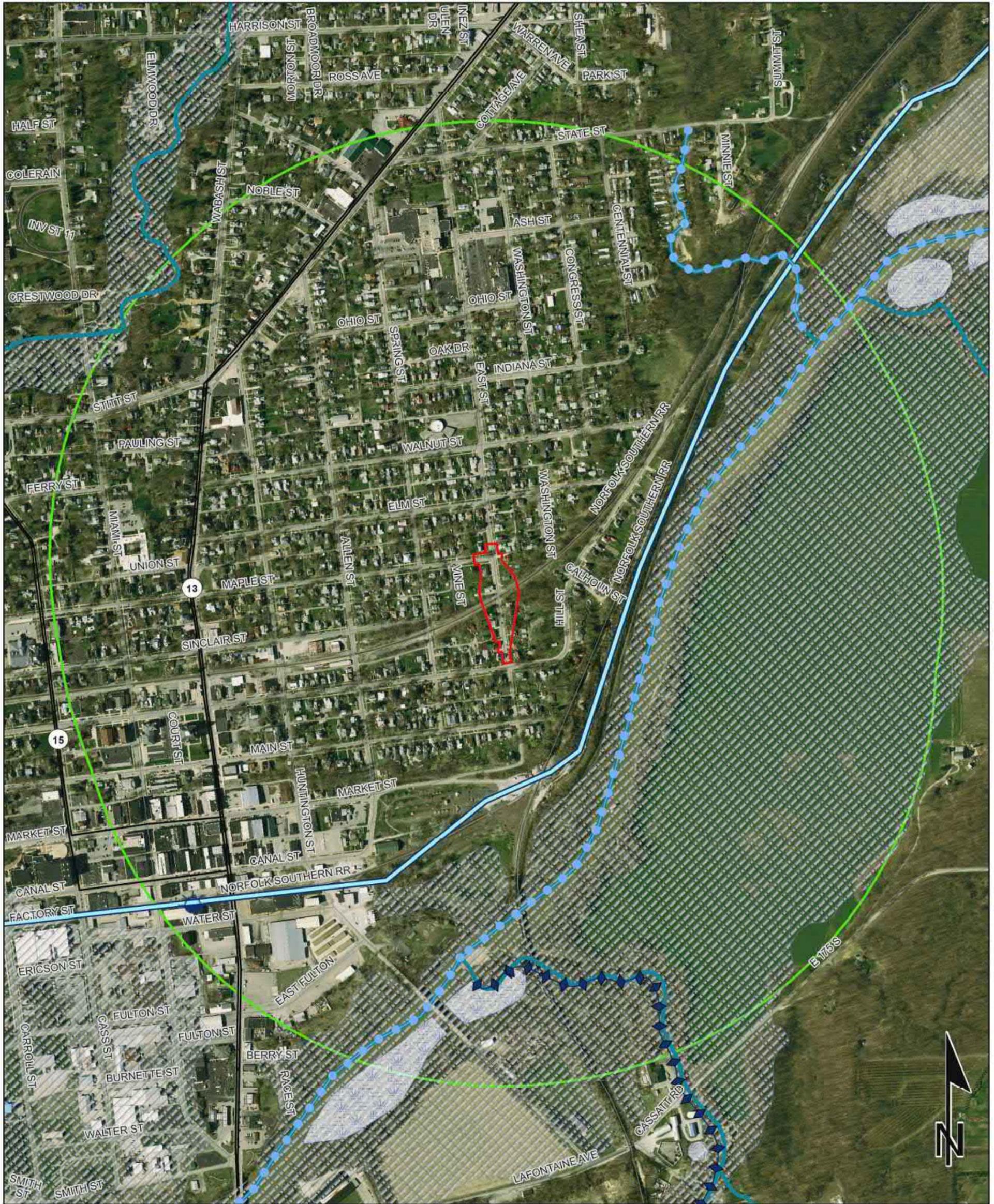
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

# Red Flag Investigation - Water Resources

## N East Street over Norfolk Southern Railroad, 0.08 Mile North of E Hill Street

### Des. No. 1801915

### Wabash County, Indiana



**Sources:** 0.1 0.05 0 0.1 Miles  
**Non Orthophotography**  
**Data** - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83

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

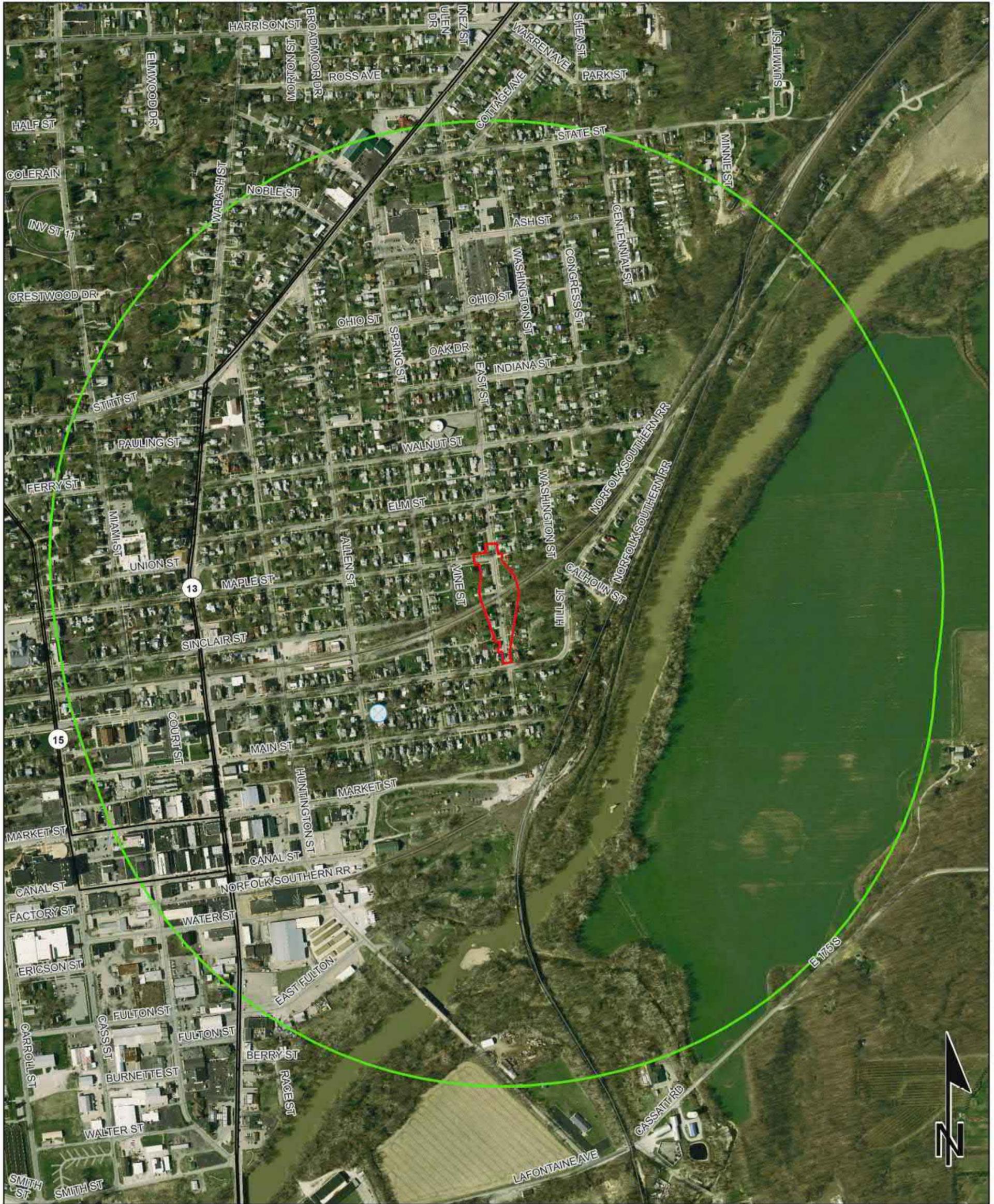


# Red Flag Investigation - Mining and Mineral Resources

## N East Street over Norfolk Southern Railroad, 0.08 Mile North of E Hill Street

### Des. No. 1801915

### Wabash County, Indiana



**Sources:**  
**Non Orthophotography**  
 Data - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83

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

