



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

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Eric Holcomb, Governor
Michael Smith, Commissioner

Date: February 16, 2023

To: Site Assessment & Management (SAM)
Environmental Policy Office - Environmental Services Division (ESD)
Indiana Department of Transportation (INDOT)
100 N Senate Avenue, Room N758-ES
Indianapolis, IN 46204

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PREPARATION NOTATION: The format and content of this document was modified due to the size of the project alignment and in accordance with coordination with INDOT SAM on August 5, 2022.

Re: RED FLAG INVESTIGATION
DES #2002424, State Project
Revive I-70
from approximately 1.5 Miles West of the I-70/SR 1 interchange to approximately 0.30 Mile East of the Indiana/Ohio State Line
Wayne County, Indiana/Preble County, Ohio

PROJECT DESCRIPTION

The Indiana Department of Transportation proposes a roadway improvement project along a 22-mile section of I-70 from approximately 1.5 miles west of the I-70/SR 1 interchange to approximately 0.30 mile east of the Indiana/Ohio State Line in Wayne County, Indiana (Des. 2002424). The project is located in sections of the New Paris, Richmond, Jacksonburg, and Cambridge City Quadrangles. Within the project area, I-70 is a divided highway classified as a principal arterial freeway. The typical cross section consists of two 12 foot-wide travel lanes in each direction with auxiliary lanes at interchanges, and a 60-foot wide median. Guardrail, bridge rails, median barriers, and interchange lighting are present throughout most of the corridor. Existing inside and outside shoulders range from 4 to 12 feet wide. There are six interchanges within the project area located at SR 1, North Centerville Rd., US 35, Chester Blvd., SR 227, and US 40 and a total of 47 bridges and culverts; however, five of the bridges are not included in the scope of work. The structures are summarized in Table 1.

The site setting along the corridor varies from rural to suburban. Beginning at the project area's western boundary near the I-70/SR 1 interchange, and extending approximately 11 miles east, the setting is rural, consisting primarily of farm fields, small pockets of forested land, and residences on large parcels. Beginning at the US 35 interchange and continuing to the Indiana/Ohio State Line, the setting along I-70 transitions from rural to suburban, with decreased residences and crop lands and increasing commercial, industrial, institutional, and office uses through the city of Richmond.

The recommended alternative includes: adding two travel lanes (one eastbound and one westbound) in the grass median along I-70; reconfiguring the I-70/US 35 (Williamsburg Pike) and I-70/US 40 interchanges; modifying ramps at the other four interchanges, the weigh station, and the rest area; replacing existing pavement with continuously reinforced concrete (CRC) pavement; placing continuous concrete median barrier; replacing and rehabilitating bridges to accommodate the added travel lanes; rehabilitating and replacing culverts; and improving the stormwater drainage system. Additionally, existing lighting, signage, and guardrail/barrier systems would be upgraded.

Bridge Work Included in Project: Yes  No  Structure #(s) See Table 1

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).

Culvert Work Included in Project: Yes  No  Structure #(s) See Table 1

Proposed right of way: Temporary  # Acres \_\_\_\_\_ Permanent  # Acres \_\_\_\_\_, Not Applicable

Work will occur within existing, previously disturbed right-of-way (ROW). No permanent and/or temporary ROW is anticipated.

Type and proposed depth of excavation: May include grading, trenching, boring, and/or directional drilling; ranging from the ground surface to over 12 feet below grade.

Maintenance of traffic (MOT): The maintenance of traffic will be conducted in several phases. At least two travel lanes in each direction will be maintained at all times. Short-term ramp and local street closures may occur.

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

State Project:  LPA:

Any other factors influencing recommendations: N/A

## **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*	6	Recreational Facilities	7
Airports <sup>1</sup>	3	Pipelines	6
Cemeteries	5	Railroads	6
Hospitals	1	Trails	5
Schools	3	Managed Lands	2

<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.

\*Includes sites not mapped in GIS.

Religious Facilities\*: Six (6) religious facilities, two (2) mapped and four (4) unmapped, are located within the 0.5 mile search radius. Three (3) religious facilities are located adjacent to the project area:

- Lighthouse Assembly of God, 2339 W. Cart Rd., Richmond, is located adjacent to the project area west of the I-70/SR 227 interchange. No impact is expected.



- Living Faith Church of God, 3777 Nolands Fork Rd., Richmond, is located adjacent to the project area west of the I-70/US 35 interchange. No impact is expected.
- New Creation Cross, 6400 National Rd. E., Richmond, is located adjacent to the project area north of the I-70/US 40 interchange. No impact is expected.

Coordination with Lighthouse Assembly of God, Living Faith Church of God, and New Creation Cross will occur.

**Airports:** Two (2) private-use airports are located within the 0.5 mile search radius. Both locations, Pentecost Airfield and Reid Memorial Hospital helipad, are located south of the project area.

- Pentecost airfield, 5094 Gaar Jackson Road, Centerville, is located adjacent to the project area east of the I-70/N. Centerville Rd. interchange. A records review indicates that this airfield may be permanently closed. No impact is expected.
- Reid Memorial Hospital helipad, 1100 Reid Pkwy., Richmond, is located approximately 0.40 mile south of the project area at the I-70/US 27 interchange. No impacts are expected; however, coordination with Reid Hospital will occur.

Although not located within the 0.5-mile search radius, one (1) public-use airport, Hagerstown Airport, is within 3.8 miles (20,000 feet) of the project area. The public-use airport is located approximately 2.07 miles north of the I-70/SR 1 Interchange. No impacts are expected. Early coordination with INDOT Aviation will occur.

**Cemeteries:** Five (5) cemeteries are located within the 0.5 mile search radius. The nearest cemeteries, Clark cemetery and Null Family cemetery are located adjacent to the south of the project area. A Cemetery Development Plan may be required since this project is within 100 feet of the cemeteries. Coordination with INDOT Cultural Resources will occur.

**Hospitals:** One (1) hospital is located within the 0.5 mile search radius. The nearest facility, Reid Hospital, is located approximately 0.40 mile south of the project area at the I-70/US 27 interchange. Coordination with Reid Hospital will occur to identify any potential issues arising with emergency services.

**Schools:** Three (3) schools are located within the 0.5 mile search radius. The nearest schools (Ivy Tech Community College, Indiana University East, and Purdue Polytechnic Institute Richmond) share a single campus adjacent to the project area at the I-70/US 27 interchange. Coordination with Ivy Tech Community College, Indiana University East, and Purdue Polytechnic Institute Richmond will occur.

**Recreational Facilities:** Seven (7) recreational facilities are located within the 0.5-mile search radius. Four (4) recreational facilities are located adjacent to the project area:

- Indiana-Ohio KOA Campground, 3101 Cart Rd., Richmond, is located adjacent to the project area northwest of the I-70/SR 227 interchange.
- I.U. East/Ivy Tech Park William K. Richardson Park, 2357 Chester Blvd, Richmond, is located adjacent to the project area near the I-70/US 27 interchange.
- Martindale State Fishing Area, 12108 W Kepler Rd, Cambridge City, is located adjacent to the project area east of the I-70/SR 1 interchange.
- Big Bear Flea Market and Campground, 2131 Centerville Road N., Centerville is located adjacent to the project area east of the I-70/SR 1 interchange.

Coordination with Indiana-Ohio KOA Campground, I.U. East/Ivy Tech, Big Bear Flea Market and Campground, City of Richmond Parks and Recreation Board, and the Indiana Department of Natural Resources (IDNR) will occur.

Pipelines: Six (6) pipeline segments are located within the 0.5-mile search radius. Two (2) pipeline segments, the Panhandle Eastern Pipeline and the Ohio Valley Gas Line, cross the project area. The Ohio Valley Gas Line is located approximately 0.35 mile east of the I-70/US 35 interchange. The Panhandle Eastern Pipeline is located approximately 0.30 mile west of SR 121. Coordination with INDOT Utilities and Railroads will occur.

Railroads: Six (6) railroad segments are located within the 0.5-mile search radius. One (1) active railroad segment, Norfolk Southern RR, crosses the project area. One (1) converted CSX railroad segment crosses the project area and has been included in the trail section below. Standard coordination will occur with INDOT Utilities and Railroads by the Project Management Team or their consultant no later than the Ready for Contracts (RFC) date.

Trails: Five (5) trail segments are located within the 0.5-mile search radius. One (1) segment is located within the project area just east of the I-70/US 35 interchange. Coordination with Cardinal Greenways, Inc. will occur.

Managed Lands: Two (2) Managed Lands are located within the 0.5 mile search radius. Martindale State Fishing Area is located adjacent to the project area, approximately 2.20 miles east of the I-70/SR 1 interchange. Coordination with IDNR is recommended.

**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	7	Canal Routes - Historic	1
Karst Springs	N/A	NWI - Wetlands	209
Canal Structures – Historic	N/A	Lakes	56
NPS NRI Listed	N/A	Floodplain - DFIRM	106
NWI-Lines	104	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	41	Sinkhole Areas	N/A
Rivers and Streams	167	Sinking-Stream Basins	N/A

If unmapped water features are identified that might impact the project area, direct coordination with INDOT ESD Ecology and Waterway Permitting will occur.

NWI – Points: Seven (7) NWI-Points are located within the 0.5-mile search radius. Two (2) NWI-Points are located within or adjacent to the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

NWI – Lines: One hundred four (104) NWI - Lines are located within the 0.5-mile search radius. Fourteen (14) NWI-Lines are located within or adjacent to the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

IDEM 303d Listed Streams and Lakes (Impaired): Forty-one (41) 303d Listed Streams are located within the 0.5-mile search radius. Seven (7) 303d streams, Fork Creek, Beard Run, Martindale Creek, Nolands Fork, West Fork of East Fork Whitewater River, Whitewater River, and Unnamed Tributary (UNT) to Nolands Fork are adjacent to and/or cross the project area.

- Beard Run, Martindale Creek, West Fork of East Fork Whitewater River, and Whitewater River are listed for E. coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.
- Fork Creek, Nolands Fork and UNT to Nolands Fork are impaired for Impaired Biotic Communities (IBCs). Concerning IBCs, Best Management Practices (BMPs) will be used to avoid further degradation to the streams.
- Whitewater River is impaired for PCBs in fish tissue. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT Site Assessment and Management (SAM) will occur.

Rivers and Streams: One hundred sixty-seven (167) river and stream segments are located within the 0.5-mile search radius. Twelve (12) river and stream segments, Whitewater River, West Fork East Fork Whitewater River, Middle Fork East Fork Whitewater River, East Fork Whitewater River, Clear Creek, Lick Creek, Black Water Branch, College Corner Branch, Greens Fork, Dry Branch, Martindale Creek, Beard Run, and Nolands Fork, are located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Canal Routes – Historic: One (1) historic canal route is located within the project area. The mapped canal route, Whitewater Canal, crosses the project area. Coordination with INDOT Cultural Resources is recommended.

NWI – Wetlands: Two hundred nine (209) wetland polygons are located within the 0.5-mile search radius. Twenty-three (23) wetland polygons are located within or adjacent to the project area. A Waters of the US Report is recommended based on mapped features and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Lakes: Fifty-six (56) lake polygons are located within the 0.50 mile search radius. Ten (10) lake polygons are located within or adjacent to the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Floodplain - DFIRM: One hundred six (106) floodplain polygons are located within the 0.5-mile search radius. The project area is located within thirty-five (35) of the floodplain polygons. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

**MINING AND MINERAL EXPLORATION TABLE AND SUMMARY**

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

Explanation: No mining or mineral exploration resource areas were identified within the 0.5-mile search radius.

**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	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	11	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	2	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	17	Confined Feeding Operations (CFO)	1
Voluntary Remediation Program	2	Brownfields	3
Construction Demolition Waste	1	Institutional Controls	6
Solid Waste Landfill	2	NPDES Facilities	34
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	2
Leaking Underground Storage (LUST) Sites	22	Notice of Contamination Sites	N/A

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).

RCRA Generator/ TSD: Eleven (11) RCRA Generator/TSD Sites are located within the 0.5 mile search radius. Four (4) RCRA Generator/TSD sites are within or adjacent to the project area :

- Dana Corporation World Technology Center, 1400 Dana Parkway, Richmond, AID 55242, is adjacent to the project area southwest of the I-70/US 35 interchange. This facility was formerly an engine testing facility. IDEM issued a No Further Action (NFA) Determination on March 6, 2006, citing acceptable levels of total petroleum hydrocarbons (TPH), diesel organics (DRO), and groundwater chemicals of concern (COC). No impacts are expected.
- INX International Ink Co. (Formerly Color Box - Georgia Pacific Corrugated), 1056 Industries Rd., Richmond, AID 10680, is located adjacent to the project area southeast of the I-70/US 35 interchange. IDEM issued a violation letter as a result of a compliance evaluation inspection on June 15, 2018 for improperly storing solvent contaminated wipes. A return to compliance letter was issued on July 31, 2018. No impacts are expected.
- Carpenter Industries Incorporated, 1304 Rose City Blvd., Richmond, AID 56770, is located adjacent to the project area south of the I-70/US 35 interchange. An Environmental Restrictive Covenant (ERC) prohibiting residential, groundwater, excavation, and agricultural development was recorded on January 20, 2006. IDEM issued an NFA on April 21, 2021 following the completion of remediation. The ERC was terminated on April 29, 2021. No impacts are expected.
- Scheid Tire, 550 W Eaton Pike, Richmond, AID 57171, is located adjacent to the project area south of the I-70/US 40 interchange. Review of the IDEM VFC shows no previous violations and the business has not operated in this location since 2001. No impacts are expected.

State Cleanup Sites: Two (2) State Cleanup Sites are located within the 0.5-mile search radius and both sites are within or adjacent to the project area.

- INX International Ink Co. (Formerly Color Box - Georgia Pacific Corrugated), 1056 Industries Rd., Richmond, AID 10680, is adjacent to the project area southeast of the I-70/US 35 interchange. IDEM issued a Violation Letter as a result of a compliance evaluation inspection on June 15, 2018 for improperly storing solvent contaminated wipes. A return to compliance letter was issued on July 31, 2018. No impacts are expected.
- Scheid Tire, 550 W Eaton Pike, Richmond, AID 57171, is mapped adjacent to the project area southwest of the I-70/US 40 interchange. Review of the IDEM VFC shows no previous violations and the business has not operated there since 2001. No impacts are expected.

UST Sites: Seventeen (17) UST sites are located within the 0.50-mile search radius. Five (5) UST sites are within or adjacent to the project area:

- Gas City (also Cambridge City Travel Center/Stop One Truck Plaza), 1534 N. SR 1, Cambridge City, AID 100031, is located adjacent to the project area south of the I-70/SR 1 interchange. According to an IDEM letter dated January 8, 2021, this active facility has several violations associated with failure to have spill prevention measures installed, and failure to provide line leak detection systems and line tightness test results. No evidence of a release was reported. No impacts are expected.
- Road 1 Shell, 1598 N SR 1, Cambridge City, AID 56028, is adjacent to the project area southwest of the I-70/SR 1 interchange. According to an IDEM letter dated December 30, 2020, this active facility has several violations associated with failure to have spill prevention measures installed, and failure to provide line leak detection systems and line tightness test results. An ERC was recorded on August 6, 2015 and on October 23, 2015 IDEM issued a NFA related to LUST Incident #199408043 regarding a release of petroleum. No impacts are expected.
- Gas America #52 (dba Speedway 8033), 1589 N. SR 1, Cambridge City, AID 55824, is located adjacent to the project area south of the I-70/SR 1 interchange. According to an IDEM letter dated January 7, 2021, the facility had returned to compliance following a minor violation issuance. No evidence of a release was reported. No impacts are expected.
- Westside Service, 2700 Williamsburg Pike (US 35), Richmond, AID 53950, is mapped adjacent to the project area at the I-70/US 35 interchange. The property is currently occupied by Anderson Auto Group. According to the January 30, 1990, Notification Form, all four (4) USTs were removed in February 1990; however, there is no available closure documentation. No impacts are expected.
- New Paris Pike Landfill, 5242 New Paris Pike, Richmond, AID 13943, is located adjacent to the project area northeast of I-70 over SR 121. According to IDEM correspondence dated April 4, 2022 and May 4, 2022, operational permits are in the process of being renewed. On November 1, 2022, IDEM issued a Violation Letter following a UST inspection on October 4, 2022. The violations were related to failure to perform testing of spill prevention and ATG equipment. No impacts are expected.

Voluntary Remediation Program: Two (2) Voluntary Remediation sites are located within the 0.5 mile search radius. The nearest site, Carpenter Industries Incorporated, 1304 Rose City Blvd., AID 56770, is located adjacent to the project area south of the I-70/US 35 interchange. On July 19, 2007, IDEM issued a NFA determination pursuant to RISC guidance regarding a petroleum release and UST closure. This site is active and currently undergoing quarterly monitoring. Coordination will be conducted with the IDEM project manager identified in the VFC (Nicole Wheeler, Program Director, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov)) before RFC.

Construction Demolition Waste: One (1) Construction Demolition Waste site is located within the 0.5 mile search radius. The site, New Paris Pike Landfill, 5242 New Paris Pike, Richmond, AID 13943, is located adjacent to the project area, east of I-70 over SR 121. According to IDEM correspondence dated April 4, 2022 and May 4, 2022, operational permits are in the process of being renewed. On November 1, 2022, IDEM issued a Violation Letter following a UST inspection on October 4, 2022. The violations were related to failure to perform testing of spill prevention and ATG equipment. No impacts are expected.

Solid Waste Landfill: Two (2) solid waste landfill sites are located within the 0.50-mile search radius. One (1) solid waste landfill, the New Paris Pike Landfill, 5242 New Paris Pike, Richmond, AID 13943, is located adjacent to the project area, northeast of I-70 over SR 121. According to IDEM correspondence dated April 4, 2022 and May 4, 2022, operational permits are in the process of being renewed. On November 1, 2022, IDEM issued a Violation Letter following a UST inspection on October 4, 2022. The violations were related to failure to perform testing of spill prevention and ATG equipment. No impacts are expected.

LUST Sites: Twenty-two (22) LUST sites are located within the 0.5-mile search radius. Thirteen (13) LUST sites are within or adjacent to the project area:

- Road 1 Shell, 1598 N. SR 1, Cambridge City, AID 56028, is located adjacent to the project area, southwest of the I-70/US 1 interchange. A Well Abandonment Report dated December 2, 2015, indicates the presence of seven environmental wells onsite. No evidence of a release was identified. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM project manager identified in the VFC, Nicole Wheeler, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov), before further site activities occur. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Gas City (also Cambridge City Travel Center/Stop One Truck Plaza), 1534 N. SR 1, Cambridge City, AID 100031, is located adjacent to the project area south of the I-70/SR 1 interchange. According to an IDEM letter dated January 8, 2021, this active facility has several violations associated with failure to have spill prevention measures installed, and failure to provide line leak detection systems and line tightness test results. No impacts are expected.
- GasAmerica #52 (DBA Speedway 8033), 1589 N. SR 1, Centerville, AID 55824, is located adjacent to the project area south of the I-70/SR 1 interchange. According to an IDEM letter dated January 7, 2021, the facility had returned to compliance following a violation issuance. No evidence of a release was reported. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM project manager identified in the VFC, Nicole Wheeler, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov), before further site activities occur. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- INDOT Cambridge City Unit, 14178 Frontage Rd., Cambridge City, AID 54316, is located adjacent to the project area southeast of the I-70/SR 1 interchange. According to a Further Site Investigation (FSI) Report dated March 2007, evidence of a release was discovered during UST closure activities in March 1998. Documentation indicates proper closure sampling and documentation was completed. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Nawal Hopkins, [nhopkins@idem.in.gov](mailto:nhopkins@idem.in.gov), before further site activities occur. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Pecan Shoppe of Centerville (DBA Minit Mart), 2351 N. Centerville Rd., Centerville, AID 55214, is located adjacent to the project area at the I-70/Centerville Rd. interchange. From the July 30, 2013 Release Investigation and Confirmation Steps, the laboratory analytical results from the backfill sample indicated VOC concentrations below the IDEM Remediation Closure Guide Regional Screening Levels (RSLs) for potential petroleum



contaminants. Laboratory analytical results for the pit water sample indicated a benzene concentration of 6.87 micrograms per liter. Based on the absence of petroleum hydrocarbon impact above RSLs in the tank pit fill material, the de minimis benzene concentration in tank pit water samples collected from the active UST pit and passing third-party tank and line tightness test result, a No Further Action status for the suspected release was requested. According to the August 5, 2014 No Further Action Approval Determination Pursuant to Remediation Closure Guide, all wells installed associated with the release at the site must be permanently abandoned in accordance with the IDNR regulations 312 IAC 13-10-2. No impacts are expected.

- Dana Corporation World Technology Center, 1400 Dana Parkway, Richmond, AID 55242, is adjacent to the project area southwest of the I-70/US 35 interchange. This inactive facility was formerly an engine testing facility. Based on the March 6, 2006, NFA letter, the analytical results from the subsurface soil samples indicate that total petroleum hydrocarbons (TPH) for diesels range organics (DRO) for soils and groundwater samples for COC are also at or below is at or below the 1994 guidance Corrective Action Guidelines. Based on the results of laboratory analysis of soil and groundwater samples at the site, it appears that the contaminated groundwater is confined to the vicinity of monitoring well MW-1, located near the center off the property. If excavation occurs in this area, it is possible that petroleum contamination may be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Love's Country Store, 2698 US 35 N. Richmond, AID 56476, is located adjacent to the project area northwest of the I-70/US 35 interchange. An Emergency Response Incident was filed on May 25, 2021, that reported a release of oil from on onsite oil-water separator into a retention pond and nearby flooded area. IDEM issued a Return to Compliance letter on September 1, 2022, related to a violation letter issued on June 2, 2022. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Meijer Gas Station #155, 2505 Chester Blvd, Richmond, AID 10688, is located adjacent to the project area south of the I-70/US 27 interchange. Correspondence dated December 21, 1990, reported that a release occurred from a waste oil storage tank resulting in contaminated surface soil. Remediation occurred during which an unknown UST and associated piping was removed. IDEM issued a violation letter on March 30, 2022 for minor violations – failure to test spill prevention equipment, perform interstitial monitoring, and conduct 30-day inspections. IDEM issued an RTC on October 7, 2022. No impacts are expected.
- Fast Max/ Sunoco #145 (now Speedway 7005), 2510 Chester Blvd., Richmond, AID 10490, is located adjacent to the project area south of the I-70/US 27 interchange. According to the April 19, 2013, NFA letter, the contamination is located in the northwest corner of the property of the former convenience store. The analytical results from the subsurface soil samples indicate total hydrocarbons (TPH) for gasoline range organics (GRO), benzene, toluene, ethyl benzene, xylenes, and methyl tertiary butyl ether (MTBE) are below IDCLs with the exception of benzene and TPH (GRO) concentrations in several soil samples. Groundwater monitoring showed that contamination has not leached into the groundwater. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Amoco Dealer One-Stop Store, 5801 National Rd. E., Richmond, AID 54128, is located adjacent to the project area west of the I-70/US 40 interchange. According to the April 27, 2012, Further Site Investigation Report, groundwater and impacted on-site soil samples indicate that contaminants of concern (COCs) and benzene concentrations are below Risk Integrated System of Closure (RISC) Industrial Default Closure Levels (IDCLS) According to an IDEM Deactivated LUST letter dated October 22, 2012 (LUST #201006505), IDEM reviewed information submitted at the time of the suspected release report and agreed that the observed contamination was attributed to historical contamination at this facility. No impacts are expected.
- Shell Food Mart (also referenced as Herdrich Petroleum / Ken's Interstate Shell), 5890 E. National Rd., Richmond, AID 54758, is located adjacent to the project area west of the I-70/US 40 interchange. Correspondence dated

January 29, 2015 identified two (2) IDEM LUST release incidents (#199407519 in July 1994 and #200509506 in September 2005). Incident #199407519 involved soil exceedance of total petroleum hydrocarbon (TPH). Incident # 200509506 involved the release of light non-aqueous phase liquid (LNAPL) approximately 10 feet from the east side of the dispenser canopy. A third incident occurred in 2014, Incident #201503508, which involved increased levels of BTEX in MW-6 located on the northwestern portion of the property. Following remediation, an NFA was issued September 10, 2015. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

- U-Haul Store No. 77083, 5900 National Rd., Richmond, AID 54580, is located adjacent to the project area west of the I-70/US 40 interchange. USTs were closed in 1998. IDEM issued a NFA on December 13, 2005. A Well Abandonment Report was submitted to IDEM on April 24, 2006. No impacts are expected.
- CRST Van Expedited Inc., 507 W Eaton Pike, Richmond, AID 54048 is mapped adjacent to the project area, southwest of the I-70/U S40 interchange. Five USTs were removed in 1998 and contaminated soil was observed during closure activities. IDEM issued a NFA on October 25, 2005. The property is currently vacated by Rose City Nursery. No impacts are expected.

**Confined Feeding Operations:** One (1) Confined Feeding Operation is located within the 0.5 mile search radius. Drake Home Farm, 2736 North Bridge Church Rd., Cambridge City, AID 56661 is located approximately 0.50 mile north of the project area at the I-70/SR 1 interchange. According to an IDEM letter dated July 20, 2022, the operation permit renewal application was approved. No violations were noted in the VFC. No impacts are expected.

**Brownfields:** Three (3) Brownfield Sites are located within the 0.5 mile search radius. One (1) site, Carpenter Industries Incorporated, 1304 Rose City Blvd., Richmond, AID 56770, is adjacent to the project area south of the I-70/US 35 interchange. An IDEM self-audit request letter dated August 10, 2022, indicated that an ERC prohibiting residential, groundwater, excavation, and agricultural development was in currently in place. On July 19, 2007 IDEM issued a NFA determination pursuant to RISC guidance regarding a petroleum release and UST closure. This site is an active facility that is currently undergoing quarterly monitoring. Coordination will be conducted with the IDEM project manager identified in the VFC (Nicole Wheeler, Program Director, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov)) before RFC.

**Institutional Controls:** Six (6) Institutional Control (IC) facilities are located within the 0.50-mile search radius. Four (4) IC facilities are located within or adjacent to the project area:

- Gas City (also Cambridge City Travel Center/Stop One Truck Plaza), 1534 N. SR 1, Cambridge City, AID 100031, is located adjacent to the project area south of the I-70/SR 1 interchange. An Environmental Restrictive Covenant (ERC) was placed on the property on December 20, 2013. The ERC specifically prohibits agriculture and residential use, the extraction of groundwater, and the removal, excavation, disturbance, and disposal of any soil. A vapor mitigation system is also required. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. On February 28, 2014, IDEM issued an NFA approval pursuant to Remediation Closure Guide. No impacts are expected.
- Carpenter Industries, Inc., 1304 Rose City Blvd., Richmond, AID 56770, is located adjacent to the project area south of the I-70/US 35 interchange. The site was formerly a bus facility and routinely used paints and petroleum and stored paint, undercoating, and adhesive wastes. An Environmental Restrictive Covenant (ERC) was placed on the property on January 20, 2006. The ERC specifically prohibits agriculture and residential use, the extraction of groundwater, and the removal, excavation, disturbance, and disposal of any soil. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM

Institutional Controls section ([institutionalcontrols@idem.IN.gov](mailto:institutionalcontrols@idem.IN.gov)) before RFC. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

- Speedway 7005, 2510 Chester Blvd., Richmond, AID 10490, is located adjacent to the project area south of the I-70/US 27 interchange. The site was formerly a gas station. A UST closure report was filed in 2008, and a subsequent monitoring well abandonment report was approved by IDEM in 2009. Per Google Maps, the site appears to be empty/vacant. The station no longer exists; however, the location may contain residual petroleum contamination in the areas where pumping and storage activities occurred. No impacts are expected.
- Amoco Service Station, 5801 National Rd. E., Richmond, AID 54128, is located adjacent to the project area west of the I-70/US 40 interchange. An Environmental Restrictive Covenant (ERC) was placed on the property on January 3, 2006. The ERC prohibits agricultural and residential use, the extraction of groundwater, and the removal, excavation, disturbance, and disposal of any soil. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. According to an IDEM letter dated April 28, 2022, this active facility has several minor violations. No impacts are expected.

NPDES Facilities: Eleven (11) NPDES facilities are within or adjacent to the project area. Coordination with permit owners will be required for facilities with active permits.

- Recovery Works Pinnacle Treatment Center, 2060 SR 1, Cambridge City, is adjacent to the project area at the I-70/SR 1 interchange. Permit No. INR10L022 issued October 21, 2015 and expired on October 19, 2020.
- McDonalds Restaurant, 14243 Frontage Rd., Cambridge City, is adjacent to the project area at the I-70/SR 1 interchange. Permit No. IN0053791 was issued on July 26, 2006 and expired on August 31, 2011.
- National Oil and Gas Centerville Road, 2351 N. Centerville Rd., Centerville, is adjacent to the project area north of the I-70/Centerville Rd. interchange. Permit No. INR10J370 was issued on November 6, 2014 and expired on November 5, 2019.
- Centerville Rest Area, 7751 I-70, Centerville, is adjacent to the project area north of the I-70/US 35 interchange. Permit No. IN0031321 was issued on October 31, 2008 and expired on April 30, 2014.
- Worldwide Wolverine Building Improvements, 1400 Industries Rd., Richmond, is adjacent to the project southwest of the I-70/US 35 interchange. Permit No. INR10H910 was issued on February 27, 2014 and expired on February 26, 2019.
- Dana Corporation World Technology Center, 1400 Dana Parkway, Richmond, AID 55242, adjacent to the project area southwest of the I-70/US 35 interchange. Permit No. IN0054305 was issued on February 17, 1988 and expired on February 17, 1993.
- Former Carpenter Bus Manufacturing Facility, 1304 Rose City Blvd., Richmond, is adjacent to the project area southeast of the I-70/US 35 interchange. Permit No. ING080331 was issued on March 1, 2016 and expired on October 31, 2020.
- I-70 over SR 121 (DES. 1006343), Richmond, is adjacent to the project area west of the I-70/US 40 interchange. Permit No. INR10M365 was issued on July 22, 2016 and expired on July 21, 2021.
- I-70 over US 40 (DES. 1500796 and 1500797), Richmond, is within the project area at the I-70/US 40 interchange. Permit No. INR10P595 was issued on September 6, 2017 and expired on September 5, 2022.
- Richmond Solar Park 2, 6200 National Rd E, Richmond, is adjacent to the project area north of the I-70/US 40 interchange has an active permit. Permit No. INRA05014 was issued February 10, 2020 and is scheduled to terminate on February 9, 2025. Coordination with the permit owner will occur.

- HOME2 SUITES, 5950 National Rd E., Richmond, is adjacent to the project area at the I-70/US 40 intersection has an active permit. Permit No. INRA03588 was issued June 17, 2019 and is scheduled to terminate on June 16, 2024. Coordination with the permit owner will occur.

NPDES Pipe Locations: Two (2) NPDES pipe locations are located within the 0.50-mile search radius. Both pipes are located at XPO Logistics Freight Inc., 3200 W Industries Rd. Richmond. The facility is adjacent to the project area, at the I-70/US 35 interchange. Coordination with permit owner will occur.

### **ECOLOGICAL INFORMATION SUMMARY**

The Wayne County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at [https://www.in.gov/dnr/nature-preserves/files/np\\_wayne.pdf](https://www.in.gov/dnr/nature-preserves/files/np_wayne.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.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in rural, suburban, and agricultural areas. Field inspections of the 47 bridges and culverts identified in Table 1, indicate that no evidence of bats was seen or heard on the bridges or in the culverts. Additional investigation to determine the presence or absence of bats on the bridges or in the culverts will be necessary, and the range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

### **RECOMMENDATIONS SECTION**

#### **INFRASTRUCTURE:**

Airports: One (1) hospital helipad is located within the project area and coordination with the hospital is recommended to identify any potential issues arising with emergency services. Additionally, while not mapped within the 0.5 mile search radius, one (1) public-use airport, Hagerstown Airport, is located within 3.8 miles (20,000 feet) of the project area. Coordination with INDOT Aviation will occur.

Religious Facilities: Three (3) religious facilities are located adjacent to the project area. Coordination with Lighthouse Assembly of God, Living Faith Church of God, and New Creation Cross will occur.

Cemeteries: Two (2) cemeteries are located adjacent to the project area. A Cemetery Development Plan will be required since the cemeteries are within 100 feet the project area. Coordination with INDOT Cultural Resources will occur.

Hospitals: One (1) hospital is located within the 0.5 mile search radius. The nearest facility, Reid Hospital, is located approximately 0.40 mile south of the project area near the I-70/US 27 interchange. Coordination with Reid Hospital will occur to identify any potential issues arising with emergency services.

Schools: Three (3) schools are located within the 0.5-mile search radius. Ivy Tech Community College, Indiana University East, and Purdue Polytechnic Institute Richmond are adjacent to the project south of the I-70/US 27 interchange. Coordination with Ivy Tech Community College, Indiana University East, and Purdue Polytechnic Institute Richmond will occur.

Recreational Facilities: Four (4) recreational facilities are adjacent to the project area. Coordination with Indiana-Ohio KOA Campground, I.U East/Ivy Tech, Big Bear Flea Market and Campground, City of Richmond Parks and Recreation Board, and the Indiana Department of Natural Resources (IDNR) will occur.

Pipelines: Two (2) pipeline segments, the Panhandle Eastern Pipeline and the Ohio Valley Gas Line, are located within the project area. The Ohio Valley Gas Line is located approximately 0.35 mile east of the I-70/US 35 interchange. The Panhandle Eastern Pipeline is located approximately 0.30 mile west of SR 121. Coordination with INDOT Utilities and Railroads will occur.

Railroads: Two (2) railroad segments, Norfolk Southern Railroad and Conrail Railroad, are located within the project area. Standard coordination will occur with INDOT Utilities and Railroads by the Project Management Team or their consultant no later than the Ready for Contracts (RFC) date.

Trails: Two (2) segments of the Cardinal Greenways Trail are located within the project area. Coordination with Cardinal Greenways, Inc. will occur.

Managed Lands: One (1) managed land, Martindale State Fishing Area, is adjacent to the project area. Coordination with IDNR is recommended.

WATER RESOURCES: A Waters of the US Report is recommended based on the presence of mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur for the following features:

- Two (2) NWI Points are located within the project area.
- Fourteen (14) NWI Lines are located within the project area.
- Twelve (12) river and stream segments are located within the project area.
- One (1) historic canal route crosses the project area.
- Twenty-three (23) wetland polygons are located within the project area.
- Ten (10) lake polygons are located adjacent to the project area.
- The project is located within thirty-five (35) floodplain polygons (coordination only).

IDEM 303d Listed Streams and Lakes:

- Beard Run, Martindale Creek, West Fork of East Fork Whitewater River, and Whitewater River are listed for E. coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.
- Nolands Fork and UNT to Nolands Fork are impaired for Impaired Biotic Communities (IBCs). Concerning IBCs, Best Management Practices (BMPs) will be used to avoid further degradation to the streams.
- Whitewater River is impaired for PCBs in fish tissue. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary.

Coordination with INDOT Site Assessment & Management (SAM) will occur.

MINING/MINERAL EXPLORATION: N/A



## HAZARDOUS MATERIAL CONCERNS:

Voluntary Remediation Program: One (1) Voluntary Remediation site, Carpenter Industries Incorporated, 1304 Rose City Blvd., Richmond, AID 56770, is located adjacent to the project area south of the I-70/US 35 interchange. This site is active and currently undergoing quarterly monitoring. Coordination will be conducted with the IDEM project manager, Nicole Wheeler, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov), before RFC.

## LUST Sites:

- Road 1 Shell, 1598 N. SR 1, Cambridge City, AID 56028, is located adjacent to the project area, southwest of the I-70/US 1 interchange. A Well Abandonment Report dated December 2, 2015, indicates the presence of seven environmental wells onsite. No evidence of a release was identified. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM project manager identified in the VFC, Nicole Wheeler, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov), before further site activities occur. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- GasAmerica #52 (DBA Speedway 8033), 1589 N. SR 1, Centerville, AID 55824, is located adjacent to the project area at the I-70/SR 1 interchange. According to an IDEM letter dated December 28, 2020, this active facility has several violations, but no evidence of a release was reported. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM project manager identified in the VFC, Nicole Wheeler, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov), before further site activities occur. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- INDOT Cambridge City Unit, 14178 Frontage Rd., Cambridge City, AID 54316, is located adjacent to the project area, southeast of the I-70/SR 1 interchange. According to a Further Site Investigation (FSI) Report dated March 2007, evidence of a release was discovered during UST closure activities in March 1998. Documentation indicates proper closure sampling and documentation was completed. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Nawal Hopkins, [nhopkins@idem.in.gov](mailto:nhopkins@idem.in.gov), before further site activities occur. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Dana Corporation World Technology Center, 1400 Dana Parkway, Richmond, AID 55242, is located adjacent to the project area southwest of the I-70/US 35 interchange. According to a letter dated September 30, 2009, IDEM was notified that Dana Corporation had settled claims filed by the landowner, Hagerstown Land, LLC and IDEM for permit violations. No information beyond 2009 is in the VFC related to this AID. A review of Beacon data indicates that a new address was assigned to the location and a new business occupies the site (Worldwide Wolverine, 1400 Industries Rd., Richmond, AID 115419) however, no information could be located in the VFC. Coordination will be conducted with the IDEM project manager identified in the VFC, Nicole Wheeler, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov), before further site activities occur. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Love's Country Store, 2698 US 35 N., Richmond, AID 56476, is located adjacent to the project area, northwest of the I-70/US 35 interchange. An Emergency Response Incident was filed on May 25, 2021, that reported a release of oil from on onsite oil-water separator into a retention pond and nearby flooded area. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM project manager identified in the VFC, Nicole Wheeler, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov), before further site activities occur. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Fast Max/ Sunoco #145 (now Speedway 7005), 2510 Chester Blvd., Richmond, AID 10490, is located adjacent to the project area south of the project area, at the I-70/US 27 interchange and was formerly the site of a gas station. According to the April 19, 2013, NFA letter, the contamination is located in the northwest corner of the property



of the former convenience store. The analytical results from the subsurface soil samples indicate total hydrocarbons (TPH) for gasoline range organics (GRO), benzene, toluene, ethyl benzene, xylenes, and methyl tertiary butyl ether (MTBE) are below IDCLs with the exception of benzene and TPH (GRO) concentrations in several soil samples. Groundwater monitoring showed that contamination has not leached into the groundwater. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

- Shell Food Mart, 5890 E. National Rd., Richmond, AID 54758, is located adjacent to the project area west of the I-70/US 40 interchange. Correspondence dated January 29, 2015 identified two (2) IDEM LUST release incidents (#199407519 in July 1994 and #200509506 in September 2005). Incident #199407519 involved soil exceedance of total petroleum hydrocarbon (TPH). Incident # 200509506 involved the release of light non-aqueous phase liquid (LNAPL) approximately 10 feet from the east side of the dispenser canopy. A third incident occurred in 2014, Incident #201503508, which involved increased levels of BTEX in MW-6 located on the northwestern portion of the property. Following remediation, an NFA was issued September 10, 2015. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

**Brownfields:** One (1) Brownfield, Carpenter Industries Incorporated, 1304 Rose City Blvd., Richmond, AID 56770, is located adjacent to the project area, south of the I-70/US 35 interchange. The site is under an ERC and is currently undergoing quarterly monitoring (see Institutional Controls). Coordination will be conducted with the IDEM project manager, Nicole Wheeler, [nwheeler@idem.in.gov](mailto:nwheeler@idem.in.gov), before RFC.

**Institutional Controls:** Carpenter Industries, Inc., 1304 Rose City Blvd., Richmond, IN 47374, AID 56770. An Environmental Restrictive Covenant (ERC) was placed on the property on January 20, 2006. The ERC specifically prohibits agriculture and residential use, the extraction of groundwater, and the removal, excavation, disturbance, and disposal of any soil. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Institutional Controls section ([institutionalcontrols@idem.IN.gov](mailto:institutionalcontrols@idem.IN.gov)) before RFC.

**NPDES Facilities:**

- Richmond Solar Park 2, 6200 National Rd E, Richmond, is adjacent to the project area north of the I-70/US 40 interchange has an active permit. Permit No. INRA05014 was issued February 10, 2020 and is scheduled to terminate on February 9, 2025. Coordination with the permit owner will occur.
- HOME2 SUITES, 5950 National Rd E., Richmond, is adjacent to the project area at the I-70/US 40 intersection has an active permit. Permit No. INRA03588 was issued June 17, 2019 and is scheduled to terminate on June 16, 2024. Coordination with the permit owner will occur.

**NPDES Pipe Locations:** Two (2) NPDES pipe locations are adjacent to the project area. Both pipes are located at XPO Logistics Freight Inc., 3200 W Industries Rd. Richmond. The facility is adjacent to the project area at the I-70/US 35 interchange. Coordination with the permit owner will occur.

**ECOLOGICAL INFORMATION:** : Coordination with USFWS and IDNR will occur. Additional investigation to determine the presence or absence of bats on the bridges or in the culverts will be necessary, and 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".

Peter  
Washburn

Digitally signed by Peter  
Washburn  
Date: 2023.02.24 11:21:09  
-05'00'

INDOT ESD concurrence: \_\_\_\_\_ (Signature)

Prepared by:

Michelle Greene, AICP  
Senior Planner  
Parsons

**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

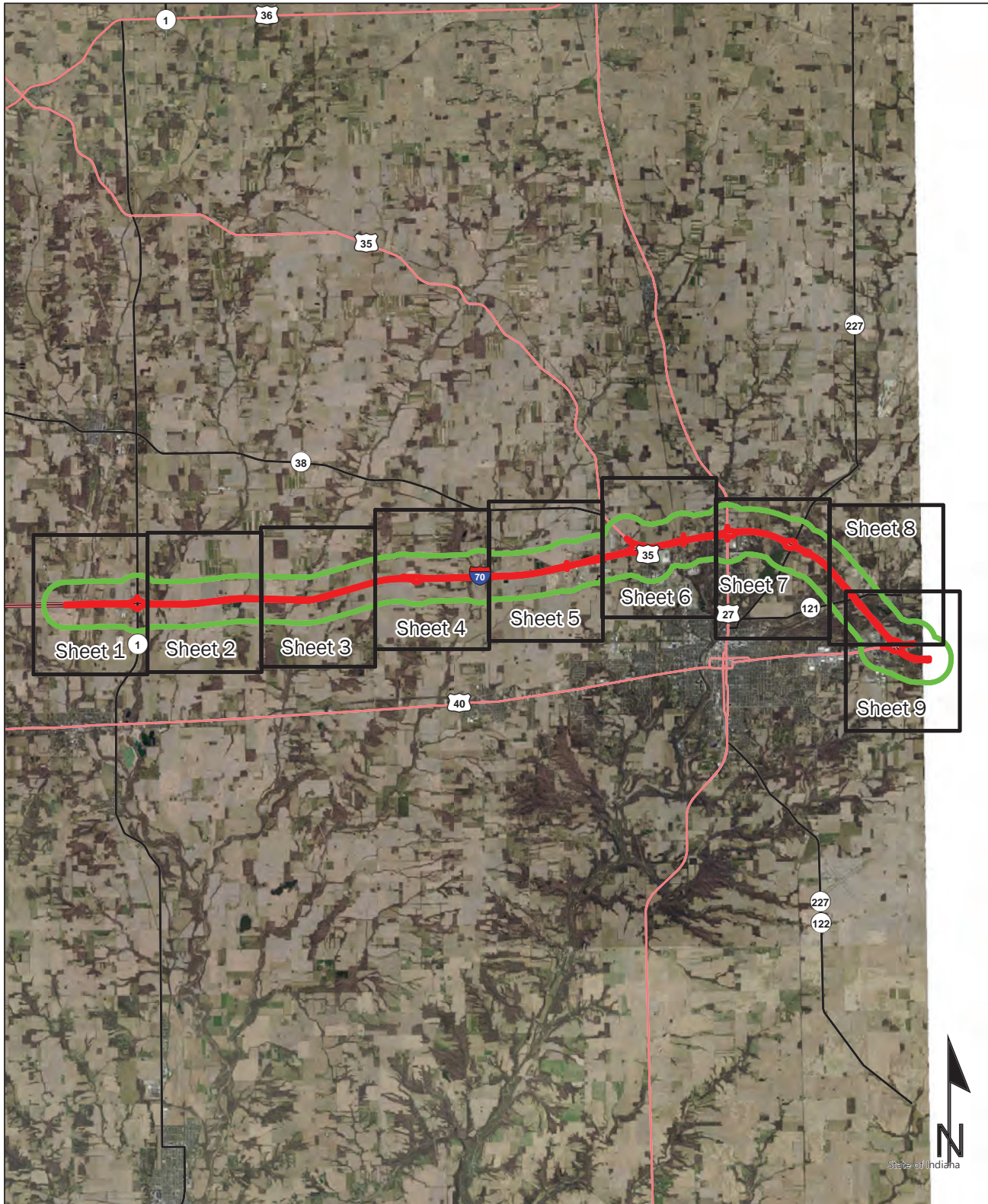
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Index  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
 Des. 2002424, Revive I-70  
 Wayne County, Indiana



**Sources:**  
 Non Orthophotography - 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.



- Project Area
- Half Mile Buffer
- Index Sheet



Red Flag Investigation - Infrastructure  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
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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 - Infrastructure  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
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 Wayne County, Indiana



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	Hospital		Trails		Interstate
	School		Managed Lands		State Route
	County Boundary		Local Road		US Route



# Red Flag Investigation - Infrastructure

## I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line

### Des. 2002424, Revive I-70

#### Wayne County, Indiana



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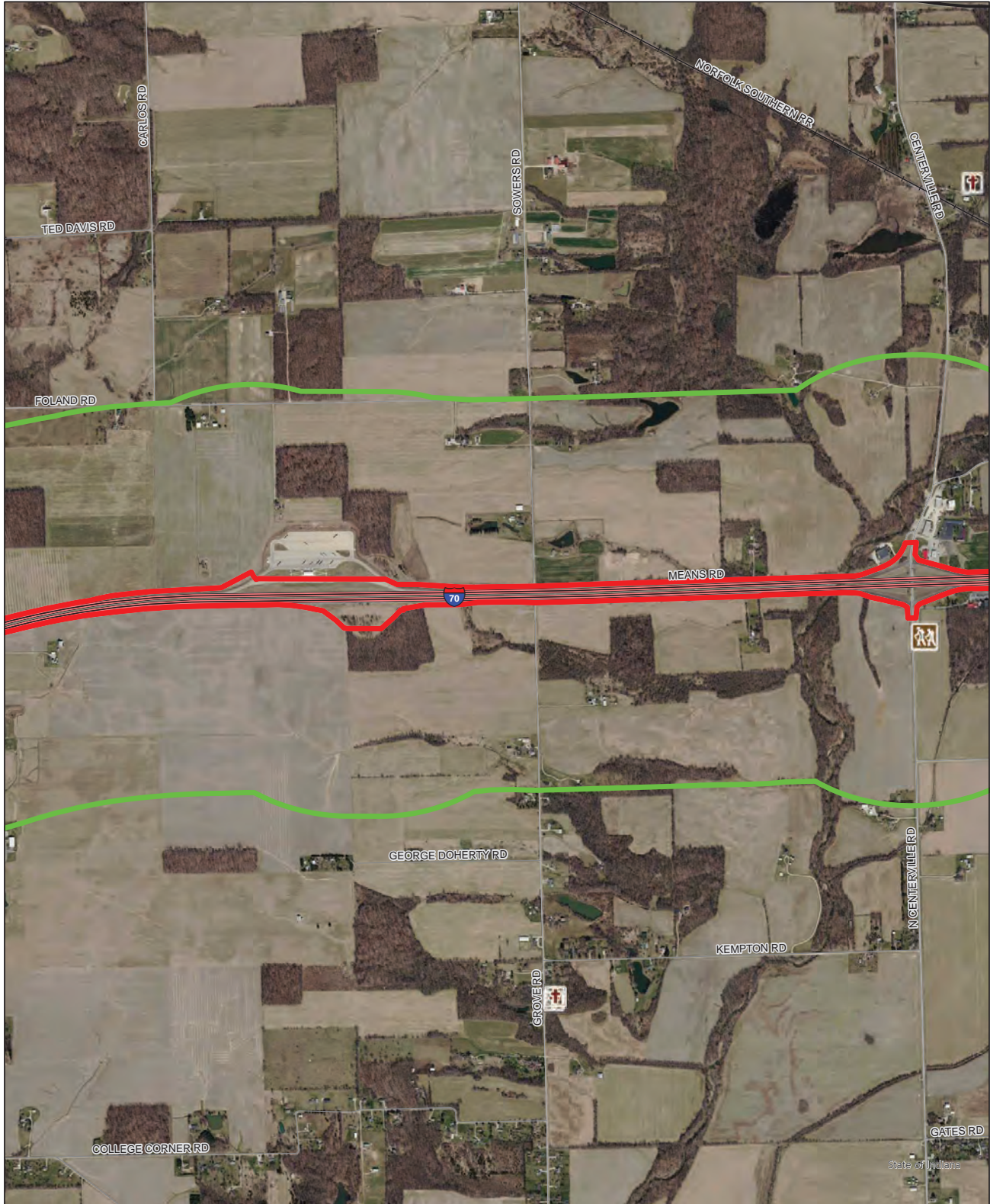
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	School		Managed Lands		State Route
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# Red Flag Investigation - Infrastructure

## I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line

### Des. 2002424, Revive I-70

### Wayne County, Indiana



**Sources:** 0.3 0.15 0 0.3 Miles  
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**Data** - Obtained from the State of Indiana Geographical Information Office Library  
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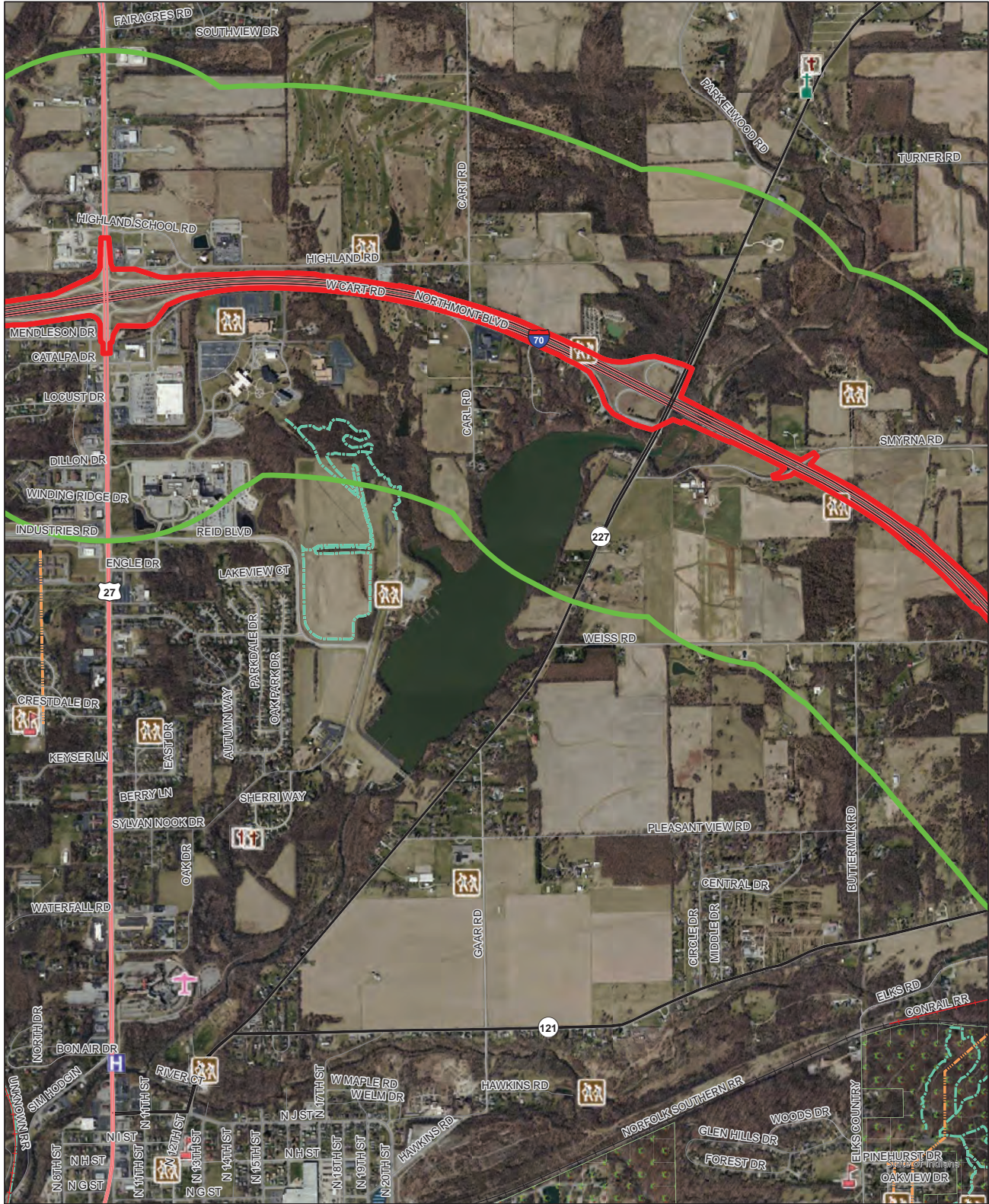


# Red Flag Investigation - Infrastructure

## I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line

### Des. 2002424, Revive I-70

#### Wayne County, Indiana



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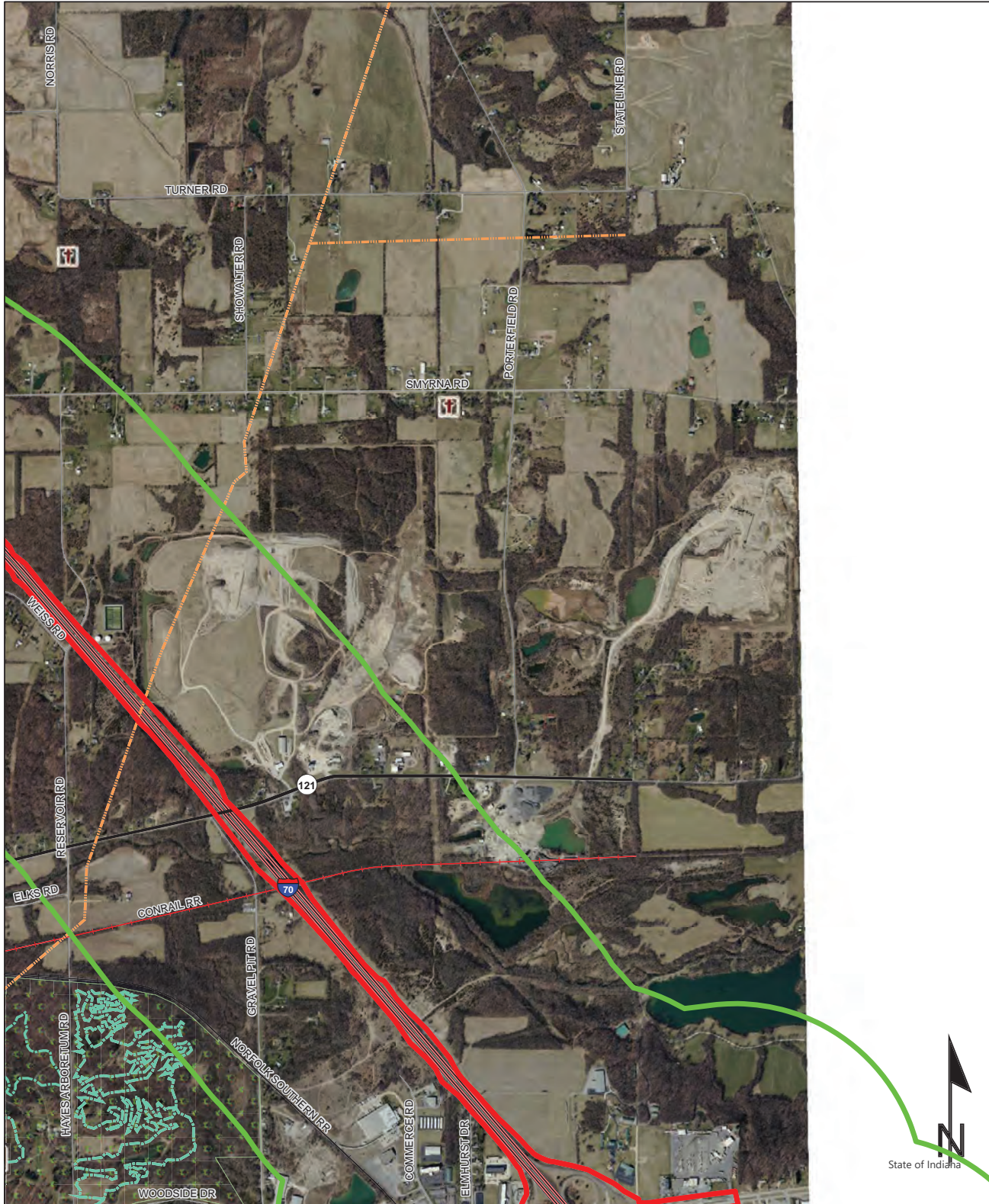


# Red Flag Investigation - Infrastructure

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### Wayne County, Indiana



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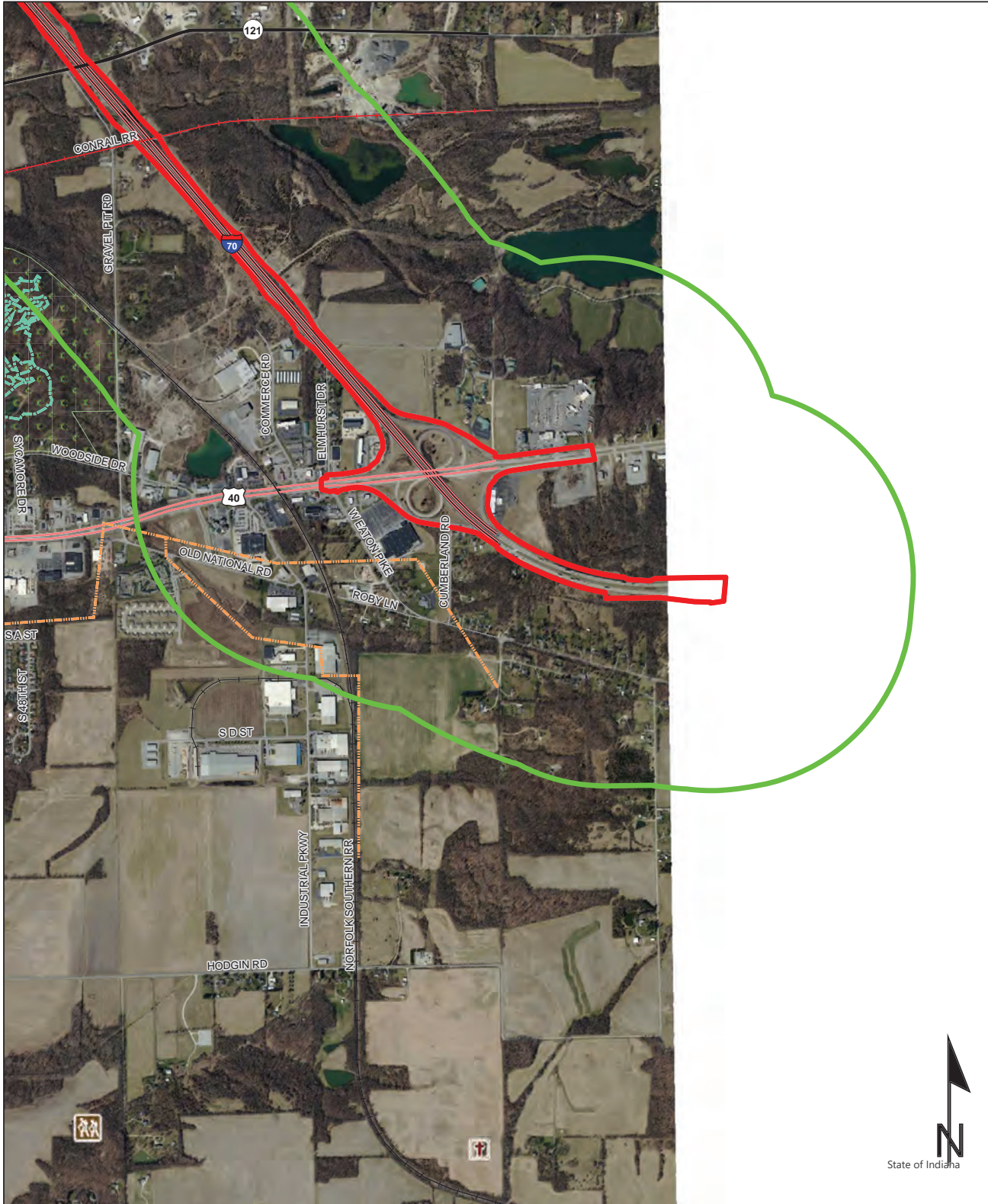
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**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83

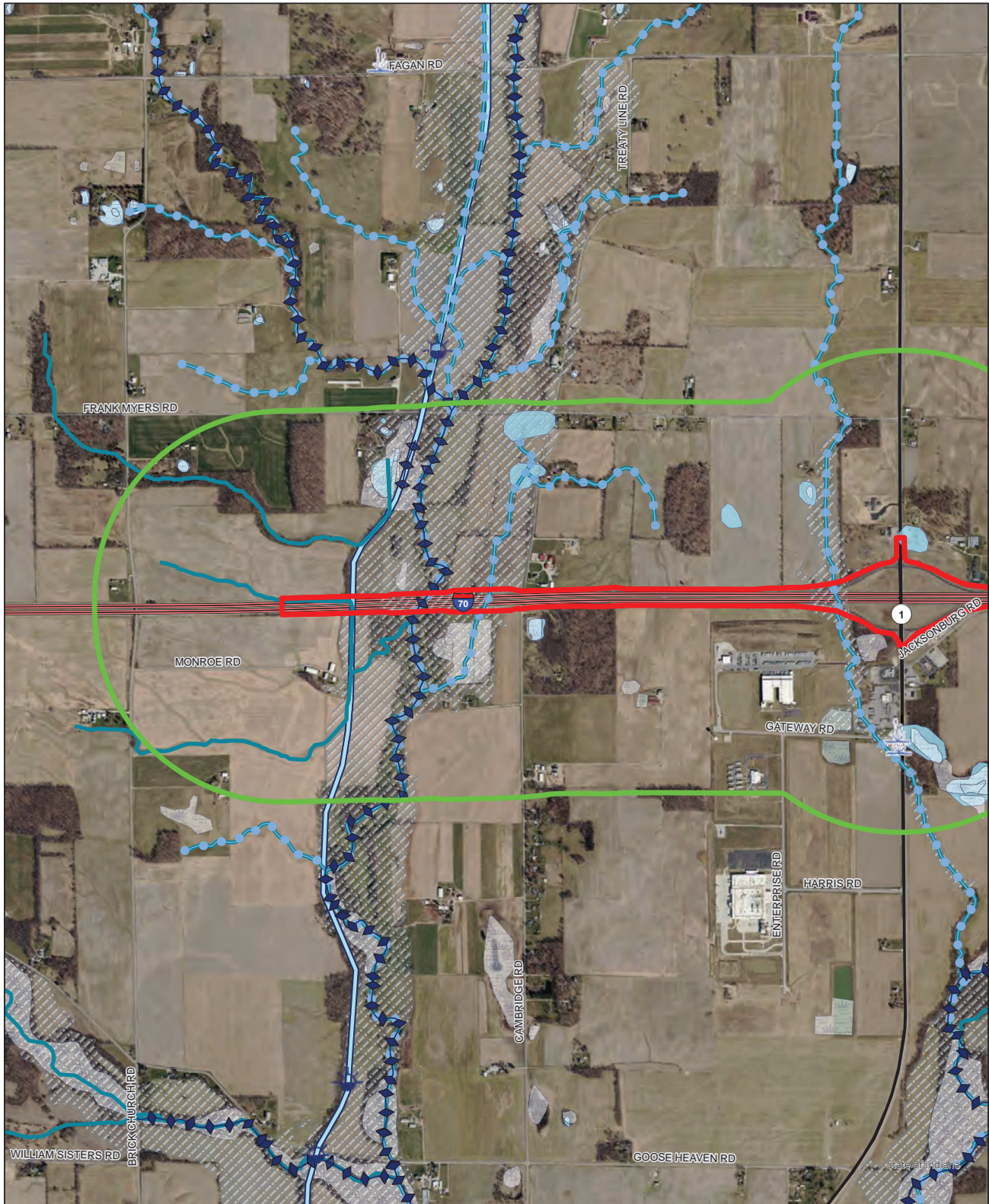
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	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
	County Boundary		Local Road		US Route

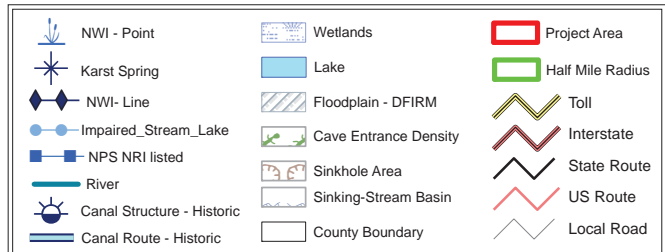


Red Flag Investigation - Water Resources  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
 Des. 2002424, Revive I-70  
 Wayne County, Indiana



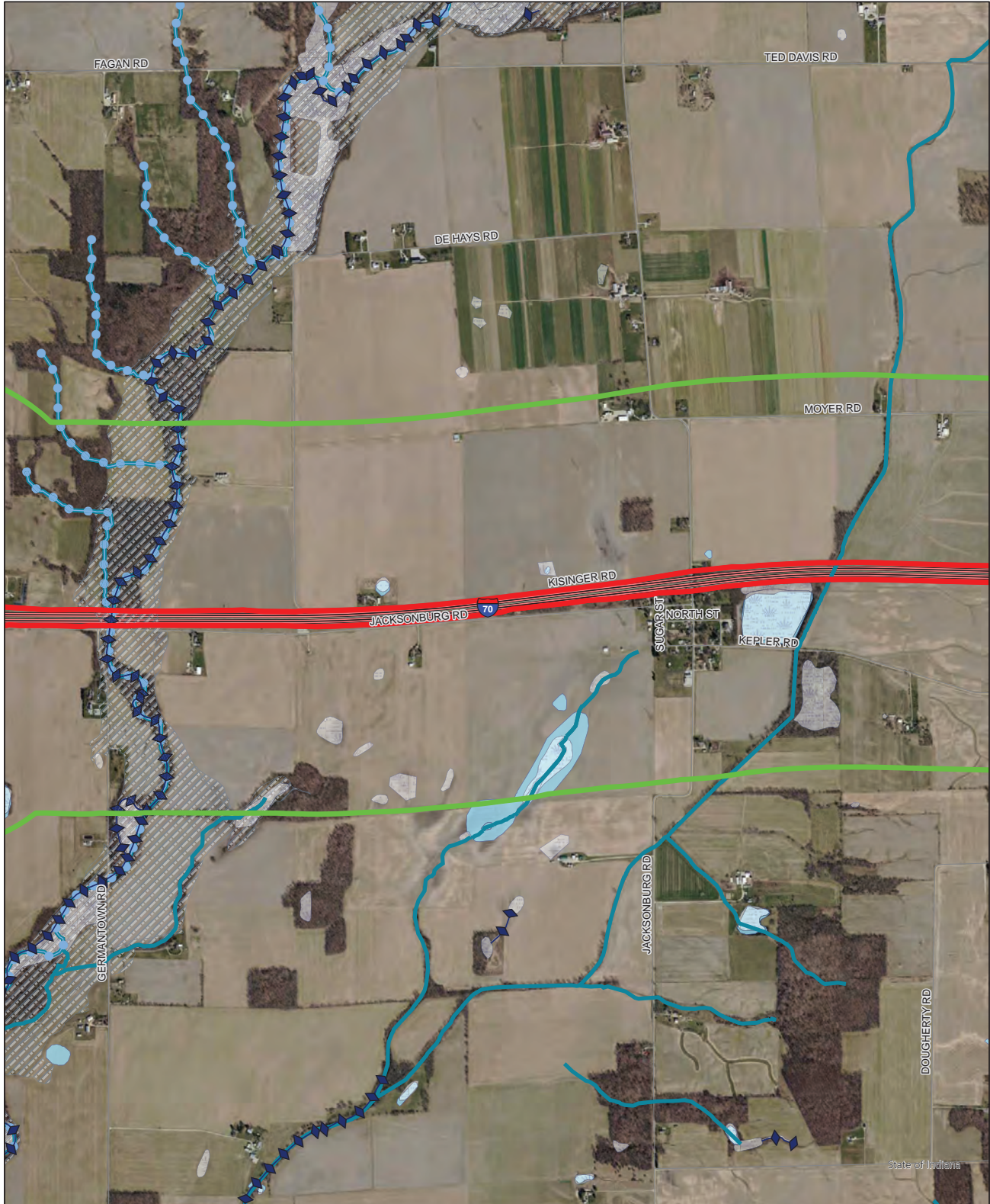
**Sources:**  
**Non Orthophotography**  
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Red Flag Investigation - Water Resources  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
 Des. 2002424, Revive I-70  
 Wayne County, Indiana



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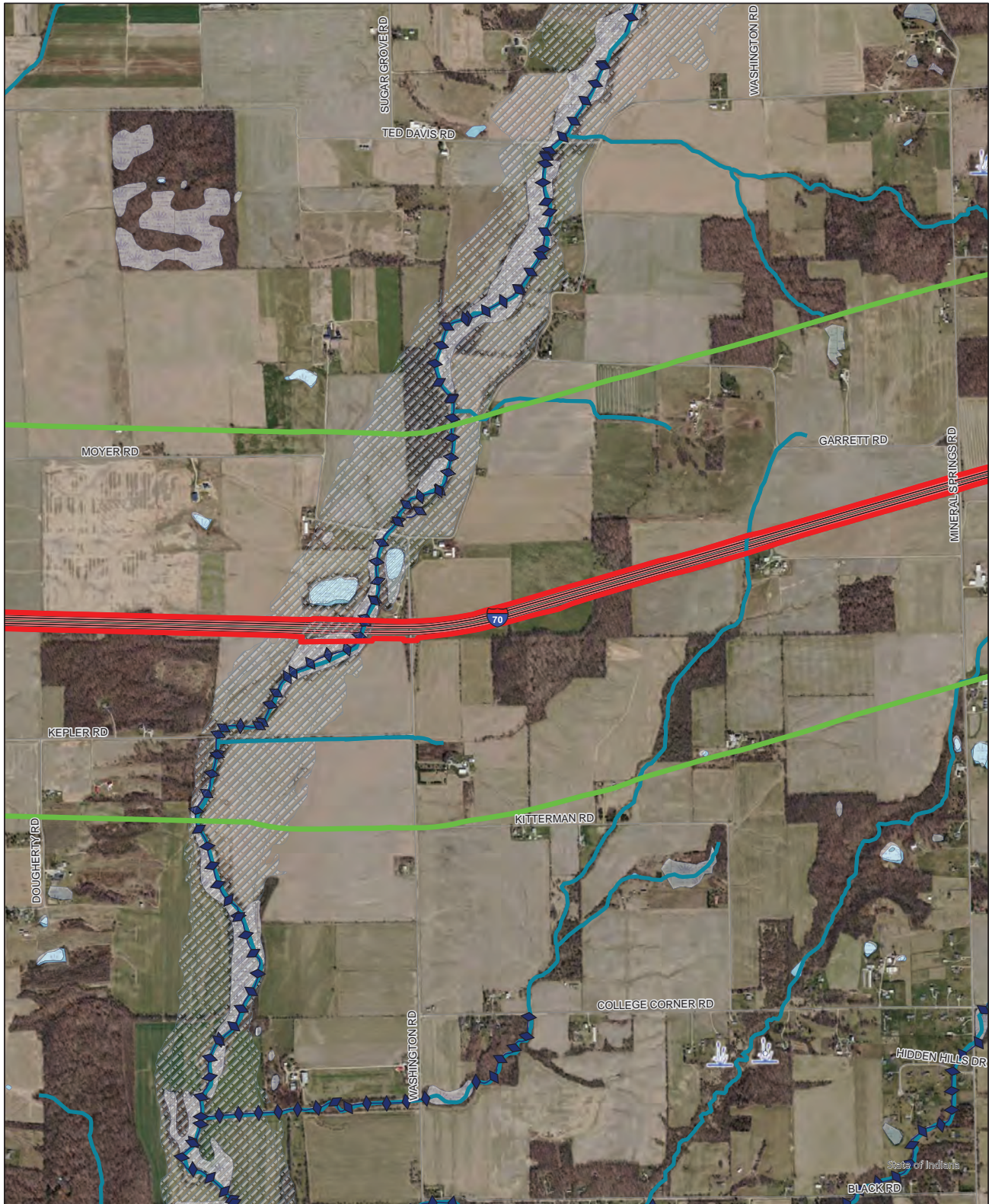
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NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		



Red Flag Investigation - Water Resources  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
 Des. 2002424, Revive I-70  
 Wayne County, Indiana



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NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		







Red Flag Investigation - Water Resources  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
 Des. 2002424, Revive I-70  
 Wayne County, Indiana



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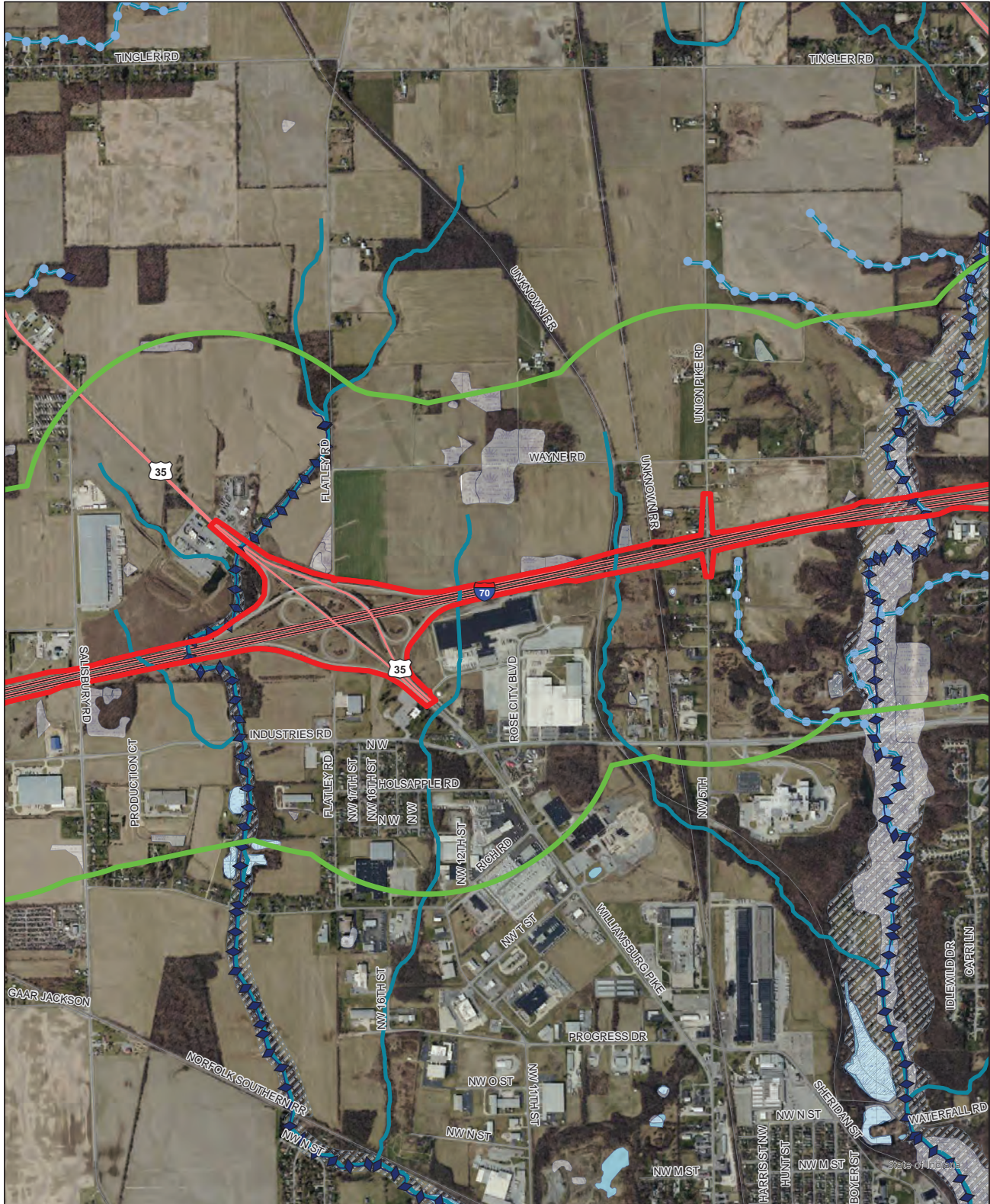



# Red Flag Investigation - Water Resources

## I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line

### Des. 2002424, Revive I-70

### Wayne County, Indiana



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NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		

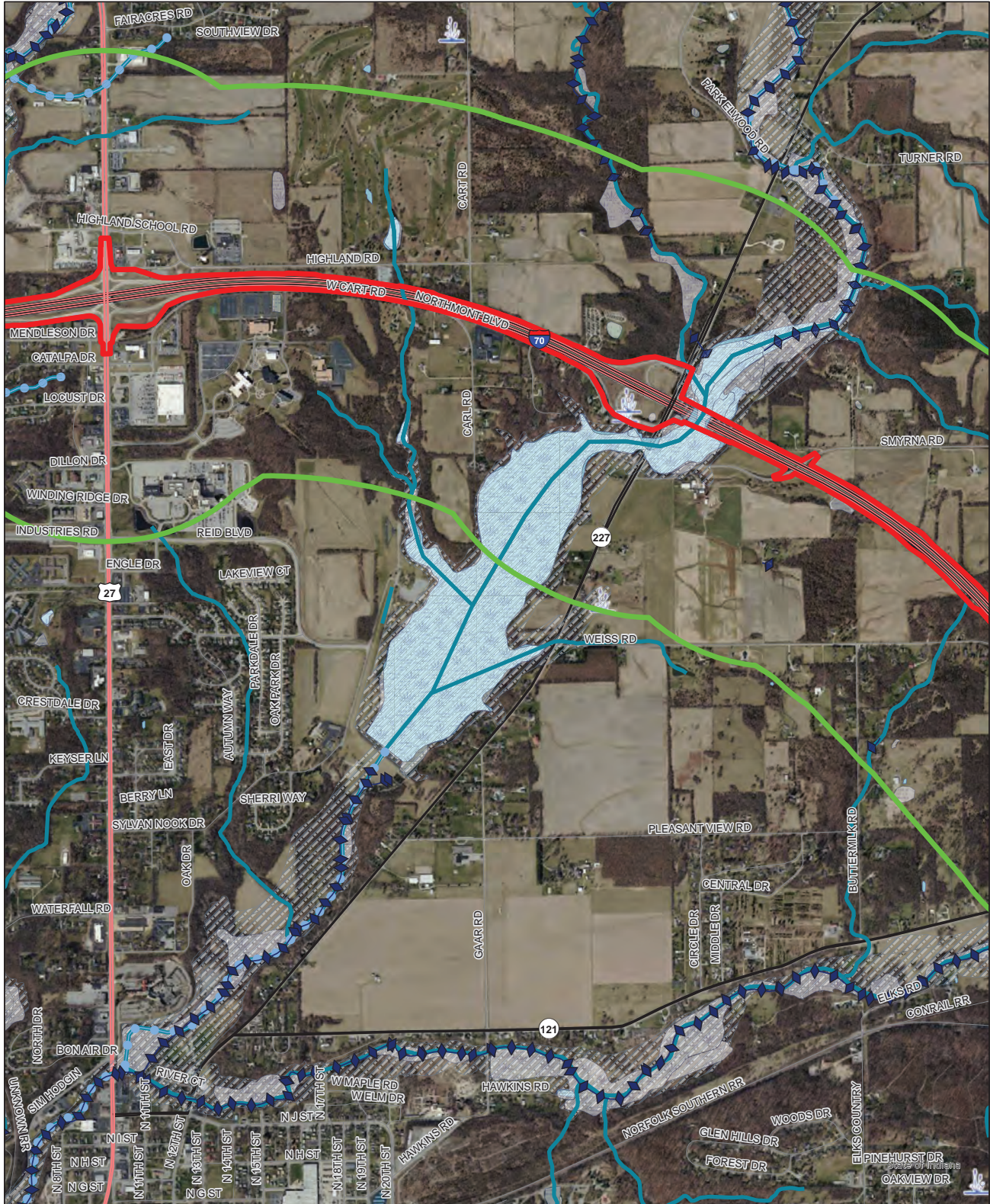


# Red Flag Investigation - Water Resources

## I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line

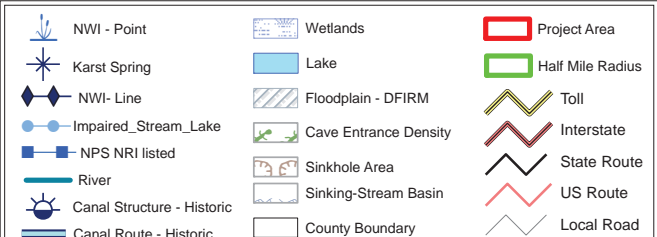
### Des. 2002424, Revive I-70

#### Wayne County, Indiana



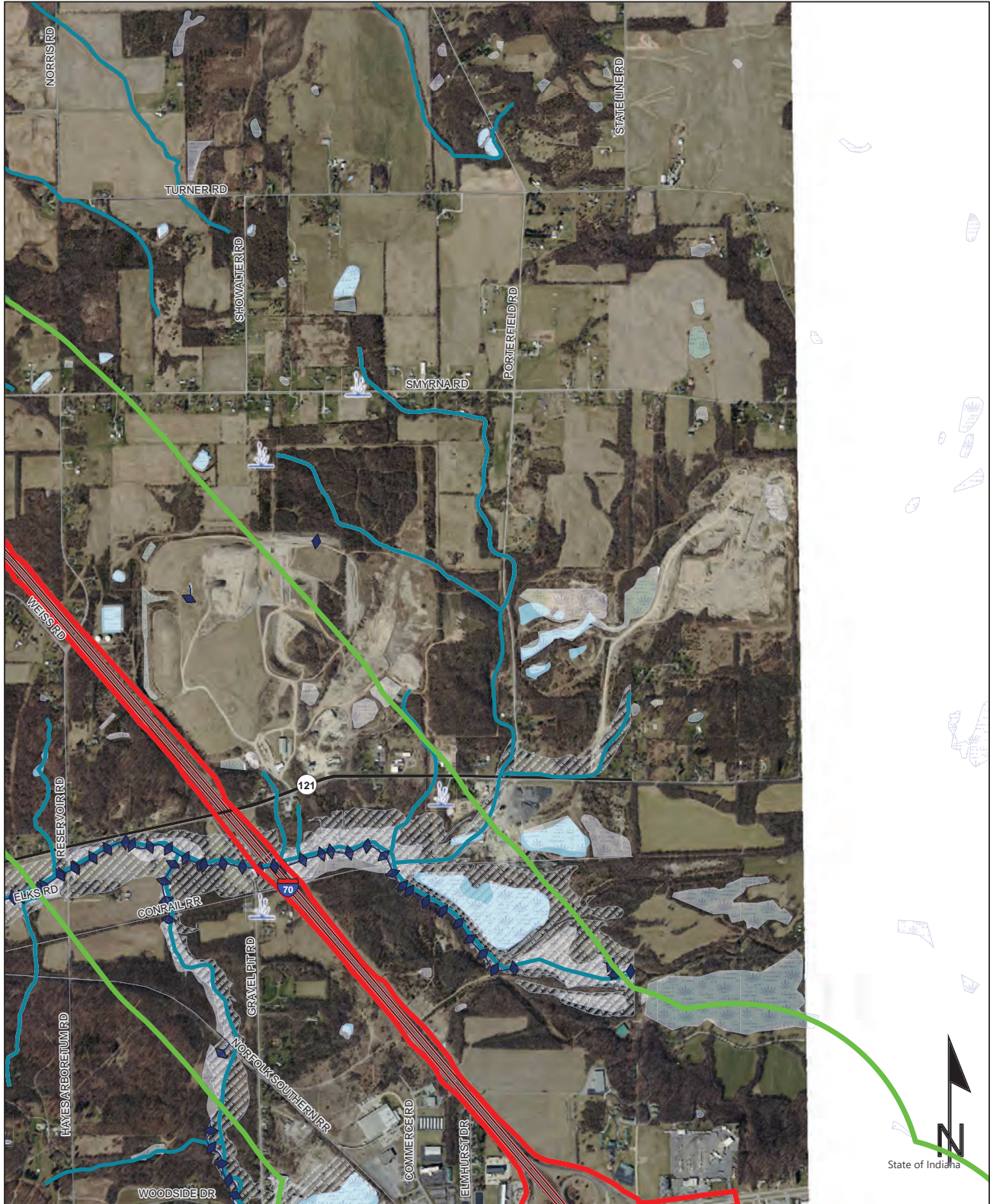
**Sources:**  
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**Red Flag Investigation - Water Resources**  
**I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line**  
**Des. 2002424, Revive I-70**  
**Wayne County, Indiana**

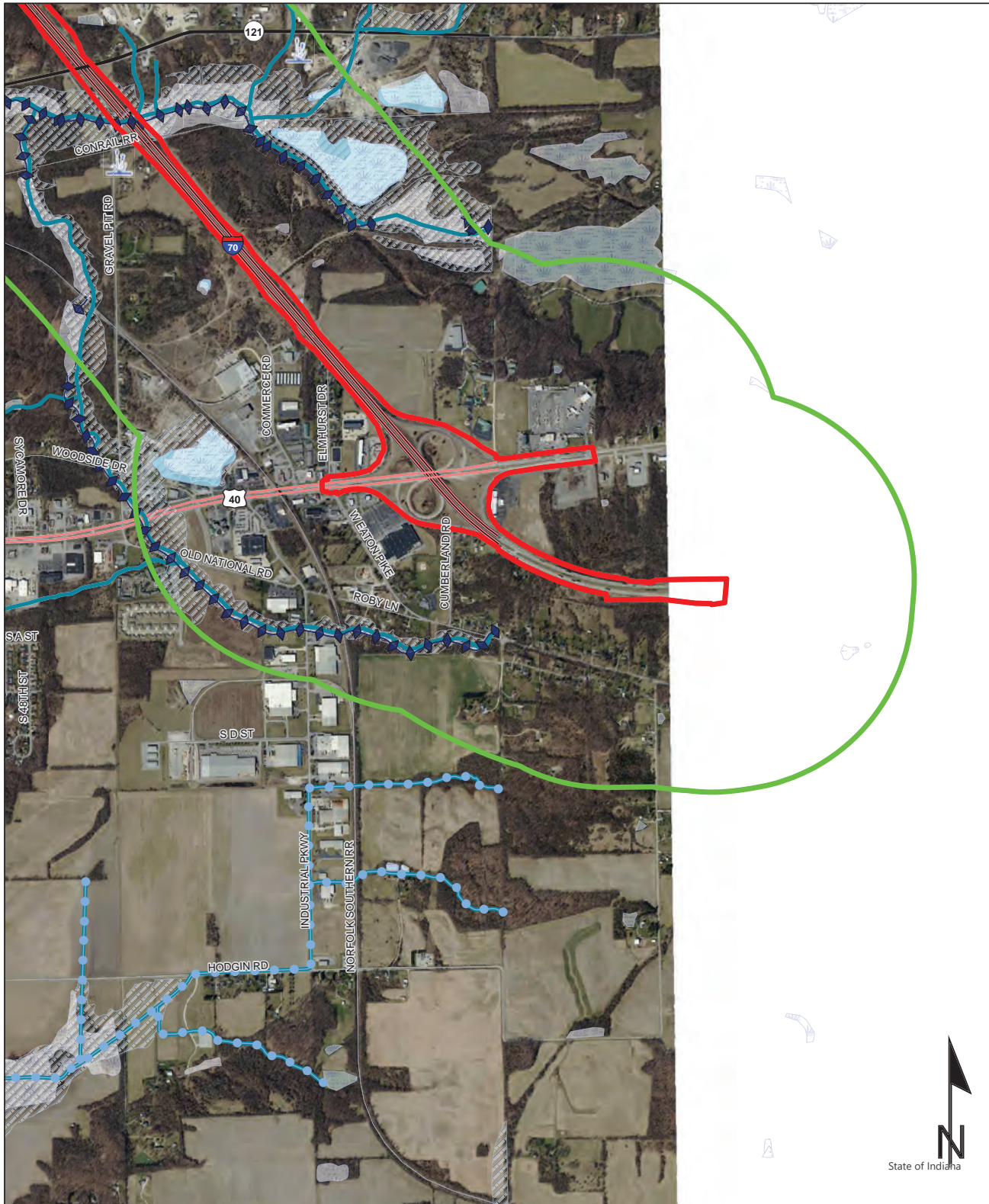


**Sources:**  
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**Red Flag Investigation - Water Resources**  
**I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line**  
**Des. 2002424, Revive I-70**  
**Wayne County, Indiana**



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NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		

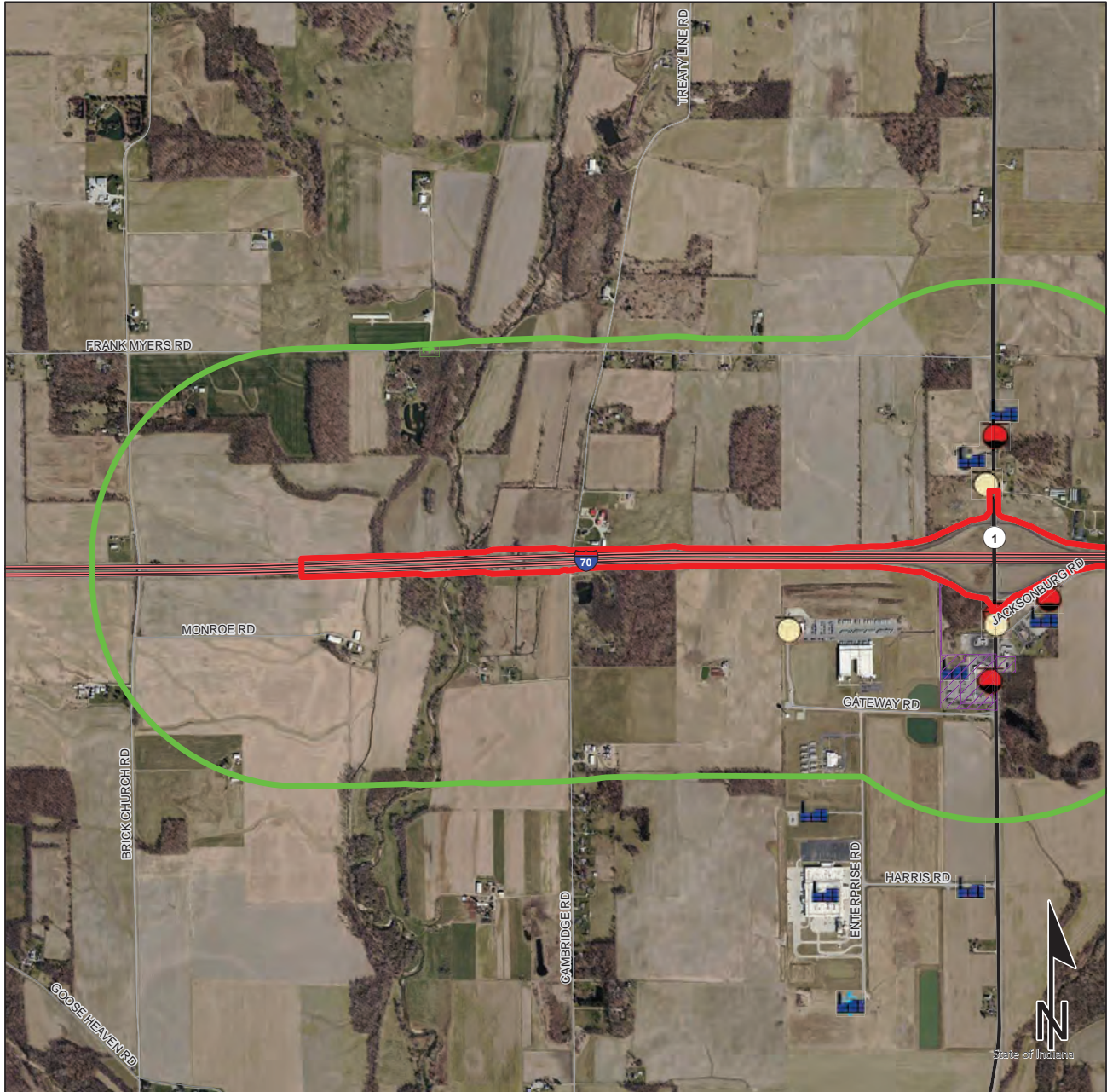


# Red Flag Investigation - Hazardous Material Concerns

## I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line

### Des. 2002424, Revive I-70

### Wayne County, Indiana



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

0.3 0.15 0 0.3  
Miles

Sheet 1 of 9

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Des. No. 2002424

Appendix E

**Sources:**  
**Non Orthophotography**  
 Data - Obtained from the State of Indiana Geographical Information Office Library  
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E-36



Red Flag Investigation - Hazardous Material Concerns  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
 Des. 2002424, Revive I-70  
 Wayne County, Indiana



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



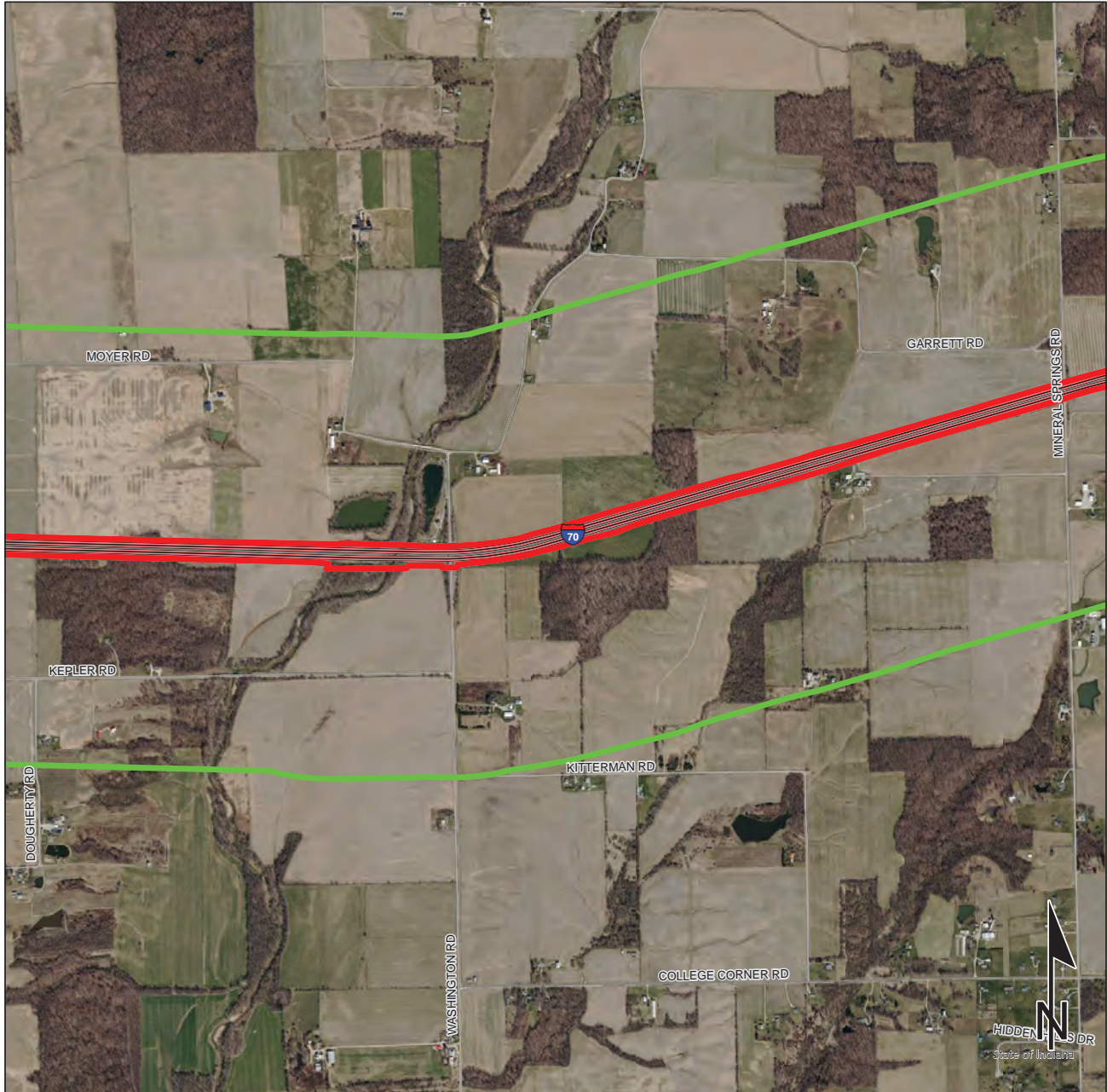
Sheet 2 of 9

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**Red Flag Investigation - Hazardous Material Concerns**  
**I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line**  
**Des. 2002424, Revive I-70**  
**Wayne County, Indiana**



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



Sheet 3 of 9

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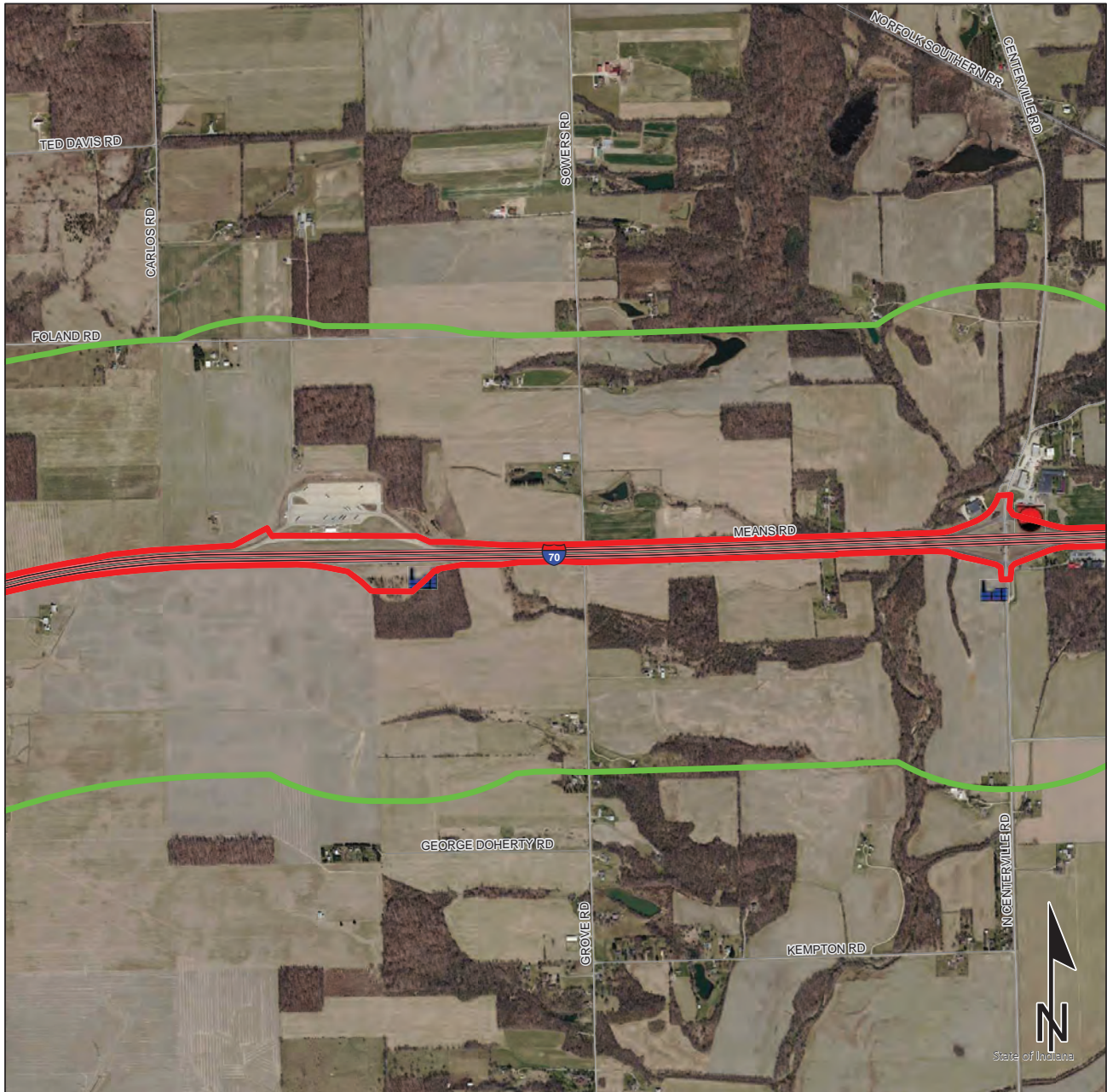


# Red Flag Investigation - Hazardous Material Concerns

## I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line

### Des. 2002424, Revive I-70

#### Wayne County, Indiana



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



Sheet 4 of 9

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Red Flag Investigation - Hazardous Material Concerns  
 I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line  
 Des. 2002424, Revive I-70  
 Wayne County, Indiana



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



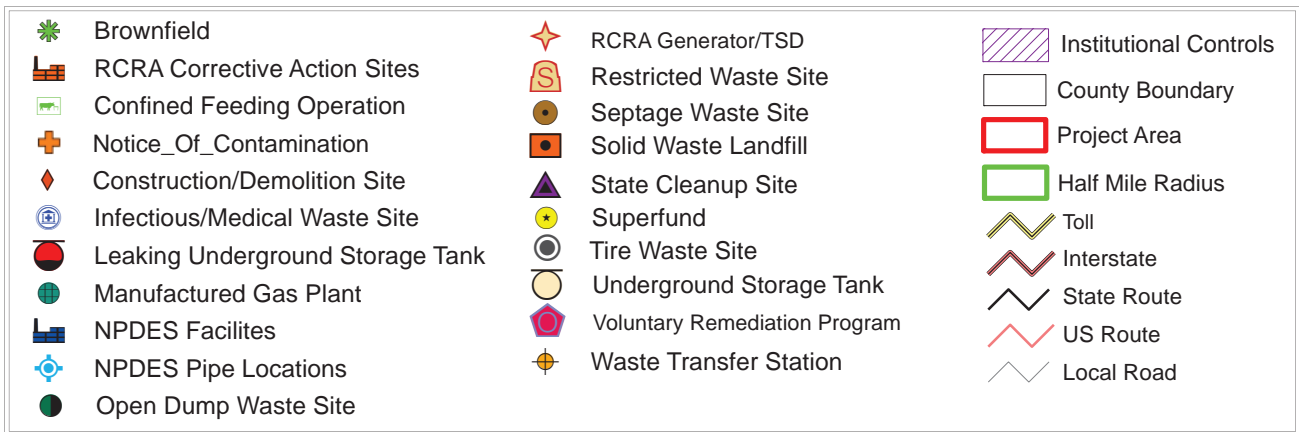
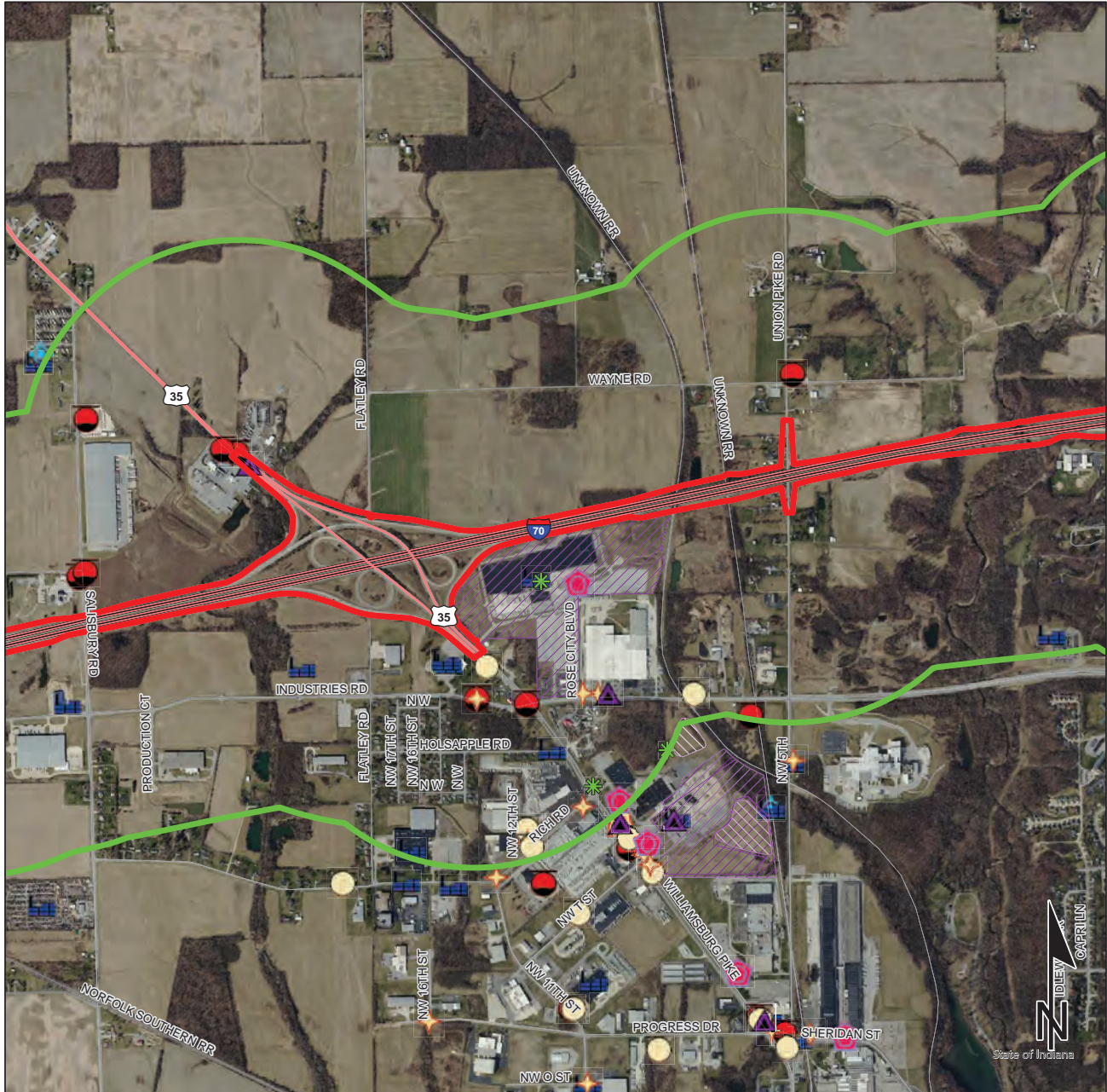
Sheet 5 of 9

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**Red Flag Investigation - Hazardous Material Concerns**  
**I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line**  
**Des. 2002424, Revive I-70**  
**Wayne County, Indiana**



Sheet 6 of 9

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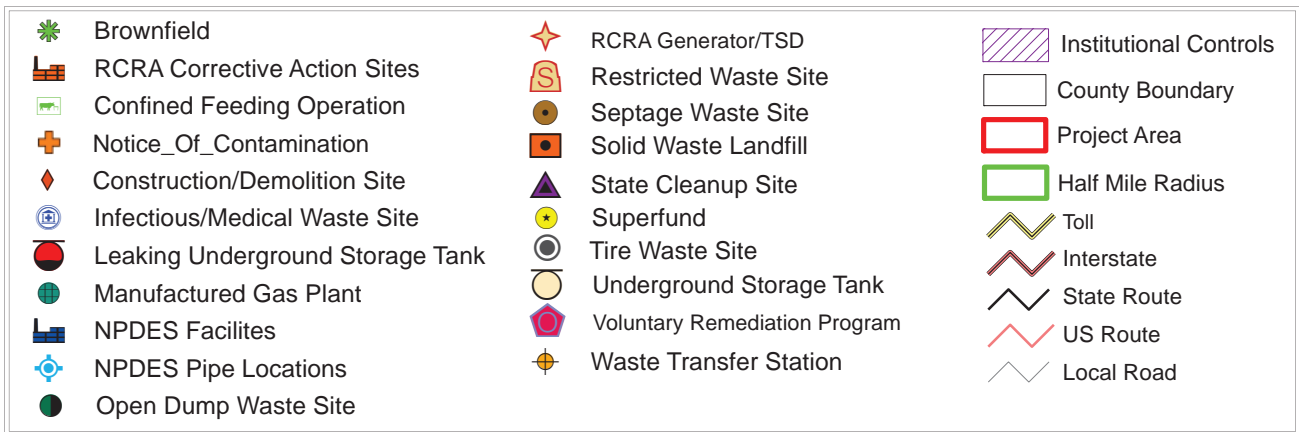
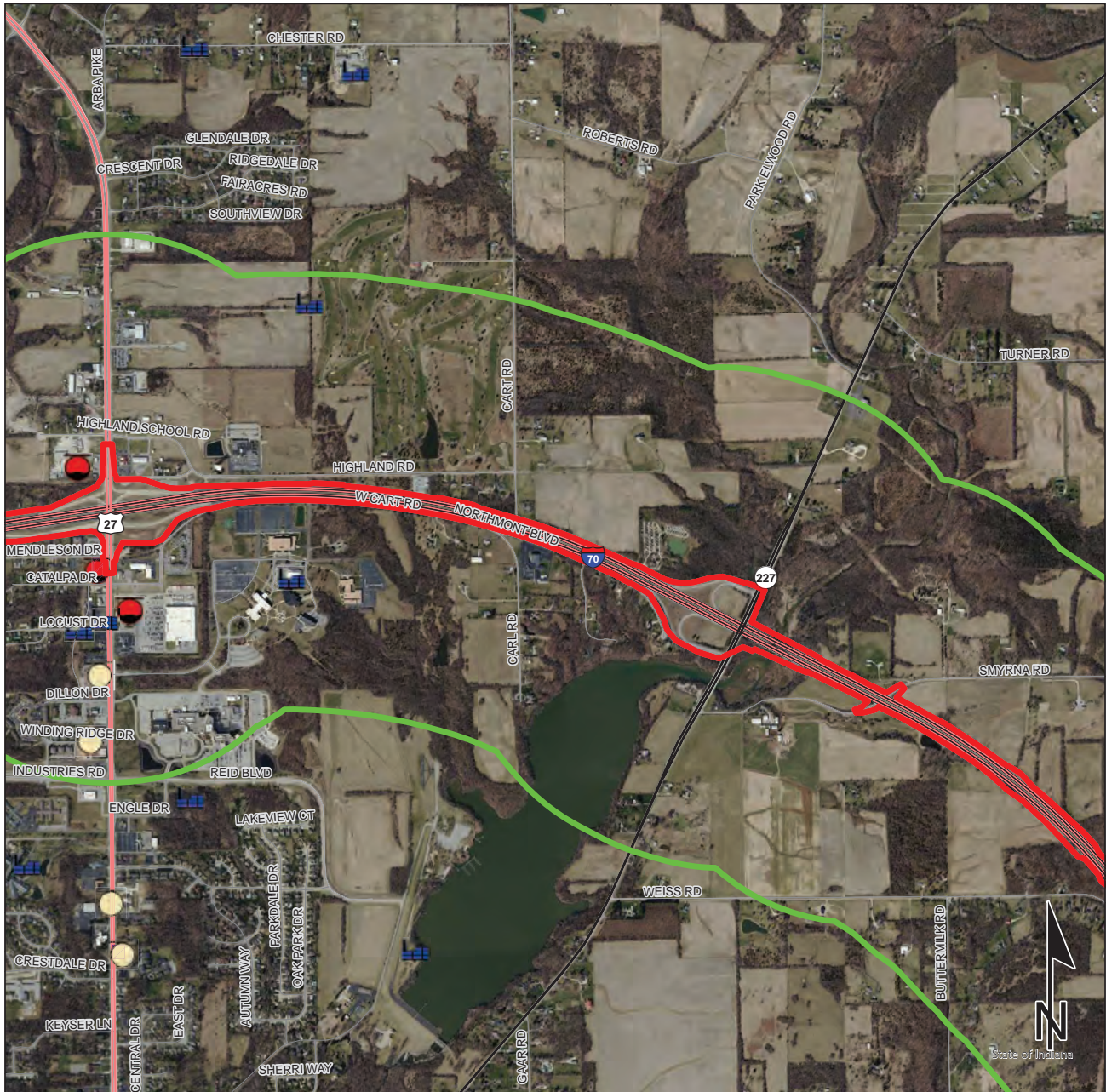


# Red Flag Investigation - Hazardous Material Concerns

## I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line

### Des. 2002424, Revive I-70

#### Wayne County, Indiana



Sheet 7 of 9

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**Red Flag Investigation - Hazardous Material Concerns**  
**I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line**  
**Des. 2002424, Revive I-70**  
**Wayne County, Indiana**



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



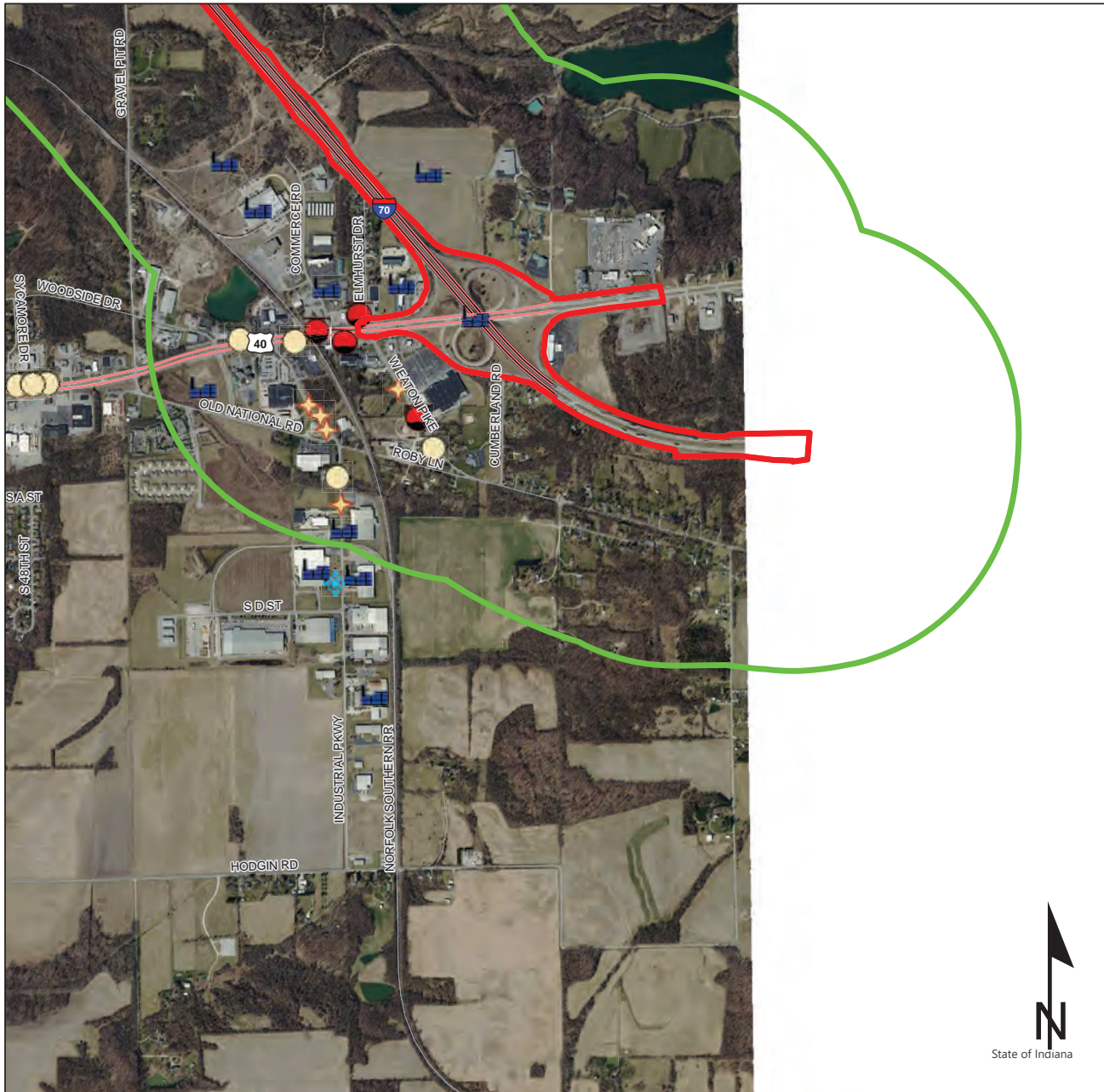
Sheet 8 of 9

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**Red Flag Investigation - Hazardous Material Concerns**  
**I-70 from 1.5 Miles West of SR 1 to 0.30 Mile East of the Indiana/Ohio State Line**  
**Des. 2002424, Revive I-70**  
**Wayne County, Indiana**



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



Sheet 9 of 9