

AREA PLAN COMMISSION

OF TIPPECANOE COUNTY

20 NORTH 3RD STREET
LAFAYETTE, INDIANA 47901-1209

(765) 423-9242
(765) 423-9154 [FAX]
www.tippecanoe.in.gov/apc

SALLIE DELL FAHEY
EXECUTIVE DIRECTOR

Date: March 17, 2014

Re: RED FLAG INVESTIGATION
DES #TBD
River Road & County Road 500 North
Intersection Improvements
West Lafayette, Tippecanoe County, Indiana

NARRATIVE

The intersection will be improved.

SUMMARY

INFRASTRUCTURE			
As identified below the following items of concern were found within ½ mile:			
Religious Facilities	N/A	Recreational Facilities	1 (see notes)
Airports	N/A	Pipelines	2
Cemeteries	N/A	Railroads	N/A
Hospitals	N/A	Trails	2
Schools	N/A	Managed Lands	1

No recreational facilities are identified within ½ mile on data provided by INDOT. American Legion Post 492 is located 800 feet south of the project. The post was added as a recreational facility in house because of its nature as a social gathering place. The post should not be affected by construction unless right of way needs drastically increase.

Two natural gas pipelines, owned by Vectren, are within ½ mile of the project. Both are more than 1,300 feet northeast of the project and will not be affected by construction.

Two trails are identified within ½ mile of the project, the Swisher Road corridor and the Wabash Heritage Trail. Both are more than 2,000 feet southeast of the project and should not be affected by construction.

Tecumseh Trails Park is the only managed lands area within ½ mile of the project. The park's nearest point to the project is 1,600 feet southwest. It will not be affected by construction.

WATER RESOURCES			
As identified below the following items of concern were found within ½ mile:			
NWI - Points	N/A	NWI - Wetlands	10
Karst Springs	N/A	IDEM 303d Listed Lakes	N/A
Canal Structures – Historic	N/A	Lakes	1
NWI - Lines	5	Floodplain - DFIRM	10
IDEM 303d Listed Rivers and Streams (Impaired)	1 (2 segments)	Cave Entrance Density	N/A
Rivers and Streams	3	Sinkhole Areas	N/A
Canal Routes - Historic	N/A	Sinking-Stream Basins	N/A

Burnett Creek flows through the southeast section of the ½ mile project buffer and all water resources except the identified lake are associated with it. Burnett Creek is a listed impaired stream. No water resource is closer than 800 feet, making them unlikely to be immediately affected by construction. However, the creek's status as an impaired stream may necessitate at least a minimum level of coordination with IDEM and IDNR.

The identified lake is an ornamental pond on a property with a single-family home. It is 2,000 feet northwest of the project and will not be affected by construction.

MINING/MINERAL EXPLORATION			
As identified below the following items of concern were found within ½ mile:			
Petroleum Wells	N/A	Petroleum Fields	N/A
Mines – Surface	N/A	Mines – Underground	N/A

No mining or mineral exploration occurs within ½ mile of the project area.

HAZMAT CONCERNS			
As identified below the following items of concern were found within ½ mile:			
Brownfield Sites	N/A	Restricted Waste Sites	N/A
Corrective Action Sites (RCRA)	N/A	Septage Waste Sites	N/A
Confined Feeding Operations	N/A	Solid Waste Landfills	N/A
Construction Demolition Waste	N/A	State Cleanup Sites	N/A
Industrial Waste Sites (RCRA Generators)	N/A	Tire Waste Sites	N/A
Infectious/Medical Waste Sites	N/A	Waste Transfer Stations	N/A
Lagoon/Surface Impoundments	N/A	RCRA Waste Treatment, Storage, and Disposal Sites (TSDs)	N/A
Leaking Underground Storage Tanks (LUSTs)	N/A	Underground Storage Tanks	N/A
Manufactured Gas Plant Sites	N/A	Voluntary Remediation Program	N/A
NPDES Facilities	N/A	Superfund	N/A
NPDES Pipe Locations	N/A	Institutional Control Sites	N/A
Open Dump Sites	N/A	Other (see notes)	1

One unspecified spill is identified within ½ mile of the project. Data provided by INDOT listed a site address of 4737 SR 43 N. No such address exists. 4731 N River Road (formerly SR 43 N), on the 2012 County aerial photo, does appear to sustain some sort of industry. The spill point's original location was nowhere near 4731 or 4737, being moved to a more accurate location in house.

Ecological Information

The Tippecanoe County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached. The ETR species on the state or federal registers are highlighted.

Cultural Resources

No state- or federally-registered historic structures or districts are within ½ mile of the project location.

RECOMMENDATIONS

INFRASTRUCTURE: Coordination with American Legion Post 492 may be necessary if right of way needs drastically increase.

WATER RESOURCES: Early and extensive coordination may be necessary with IDEM and IDNR because of Burnett Creek's proximity and status as an impaired stream.

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: The potential spill site should be field verified.

ECOLOGICAL INFORMATION: N/A

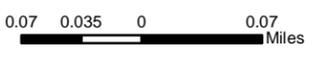
CULTURAL RESOURCES: N/A

Prepared by:
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Transportation GIS Specialist
Area Plan Commission of Tippecanoe County

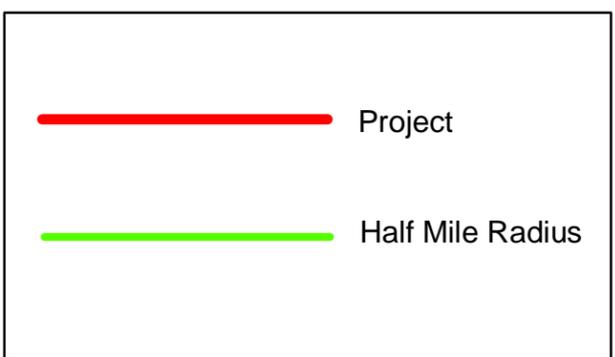
PROJECT AREA
River Road/County Road 500 N
Des. No. TBD, Intersection Improvements
Tippecanoe County, Indiana



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



Project Area Map



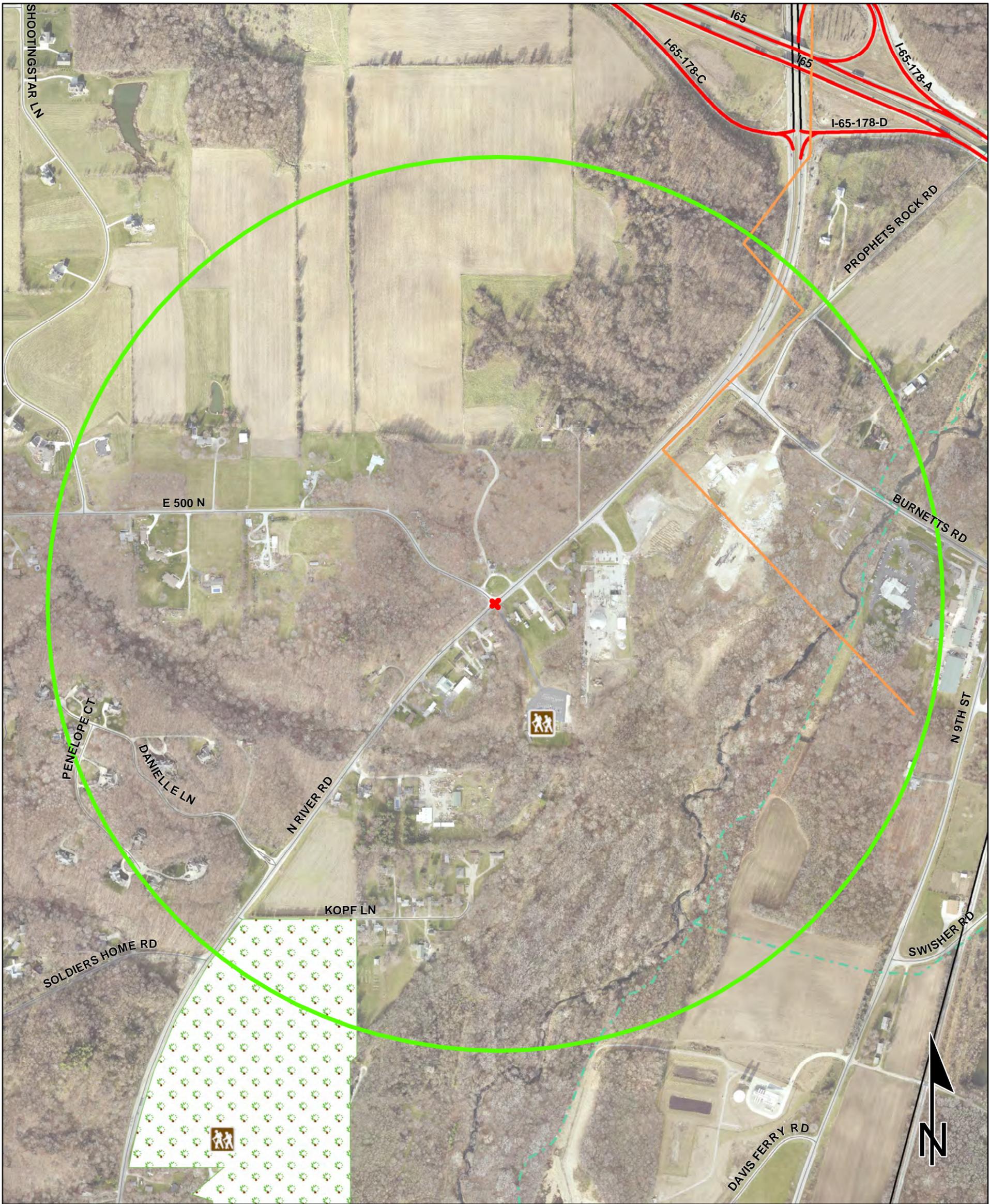
This map is intended to serve as an aid in graphic representation only and was provided by INDOT. This information is not warranted for accuracy or other purposes.

INFRASTRUCTURE

River Road/County Road 500 N

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Infrastructure Legend

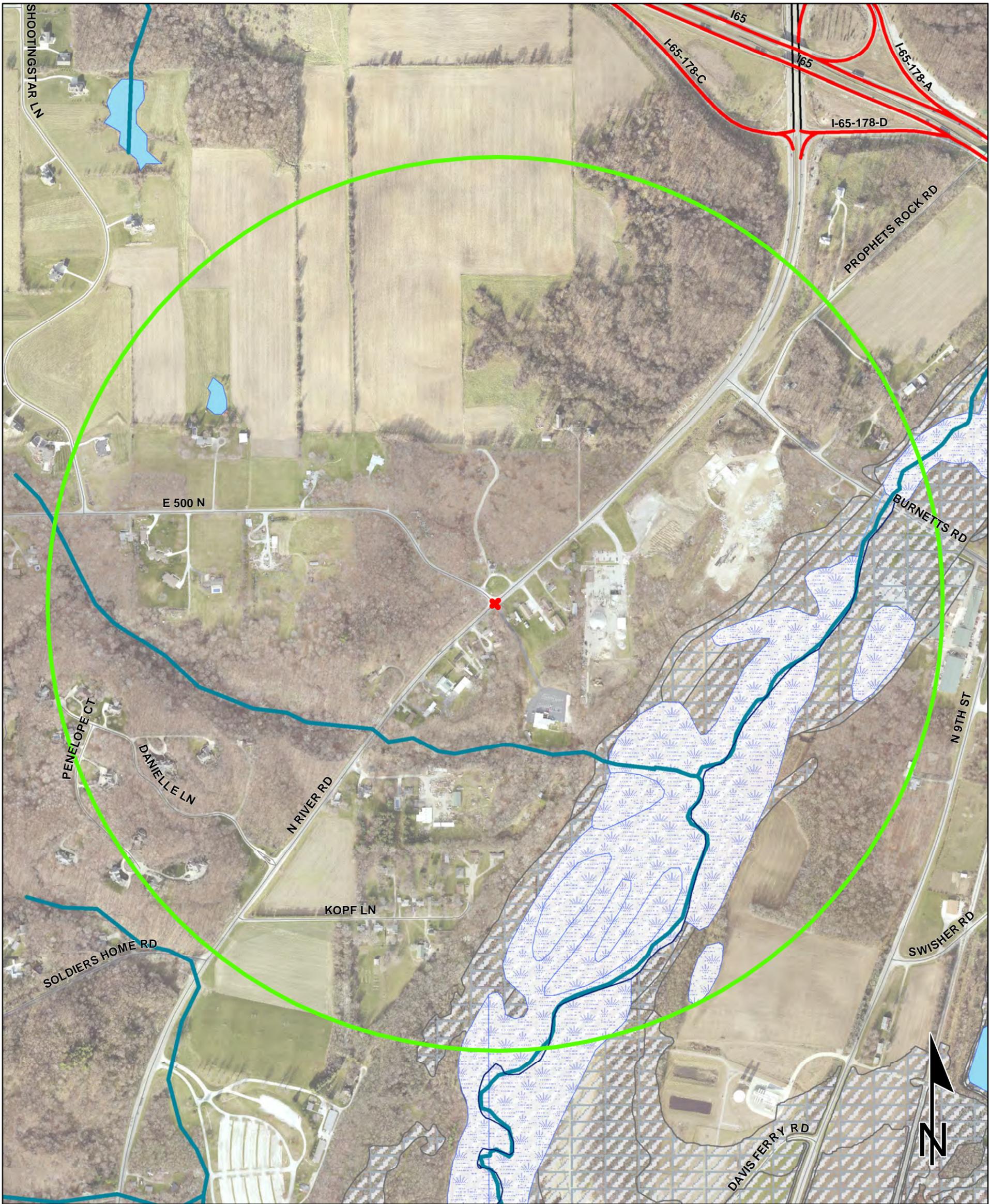
Religious Bldg	Recreation	Project Area
Religious Bldg	Pipeline	Half Mile Radius
Airport	Railroad	Interstate
Cemeteries	Trails	State Route
Hospital	Managed Lands	US Route
School	County Boundary	Local Road

WATER RESOURCES

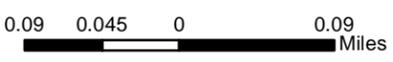
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Water Resources Legend

NWI - Point	Wetlands	Project Area
Canal Structure - Historic	Lake - Impaired	Half Mile Radius
NWI- Line	Lake	Interstate
Stream - Impaired	Floodplain - DFIRM	State Route
NPS NRI listed	County Boundary	US Route
River		Local Road
Canal Route - Historic		

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HAZMAT CONCERNS

River Road/County Road 500 N

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Tippecanoe County, Indiana



HazMat Concerns Legend

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

0.1 0.05 0 0.1
Miles

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Indiana County Endangered, Threatened and Rare Species List

County: Tippecanoe

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
Cyprogenia stegaria	Eastern Fanshell Pearlymussel	LE	SE	G1Q	S1
Epioblasma torulosa rangiana	Northern Riffleshell	LE	SE	G2T2	SX
Epioblasma torulosa torulosa	Tubercled Blossom	LE	SE	G2TX	SX
Epioblasma triquetra	Snuffbox	LE	SE	G3	S1
Fusconaia subrotunda	Longsolid		SE	G3	SX
Lampsilis fasciola	Wavyrayed Lampmussel		SSC	G5	S3
Lampsilis ovata	Pocketbook			G5	S2
Leptodea leptodon	Scaleshell	LE	SX	G1G2	SX
Ligumia recta	Black Sandshell			G5	S2
Obovaria retusa	Ring Pink	LE	SX	G1	SX
Obovaria subrotunda	Round Hickorynut		SSC	G4	S1
Plethobasus cicatricosus	White Wartyback	LE	SE	G1	SX
Plethobasus cyphus	Sheepnose	LE	SE	G3	S1
Pleurobema clava	Clubshell	LE	SE	G2	S1
Pleurobema cordatum	Ohio Pigtoe		SSC	G4	S2
Pleurobema plenum	Rough Pigtoe	LE	SE	G1	S1
Pleurobema rubrum	Pyramid Pigtoe		SE	G2G3	SX
Potamilus capax	Fat Pocketbook	LE	SE	G1G2	S1
Ptychobranhus fasciolaris	Kidneyshell		SSC	G4G5	S2
Quadrula cylindrica cylindrica	Rabbitsfoot	C	SE	G3G4T3	S1
Simpsonaias ambigua	Salamander Mussel		SSC	G3	S2
Toxolasma lividus	Purple Lilliput		SSC	G3	S2
Villosa fabalis	Rayed Bean	LE	SSC	G2	S1
Insect: Coleoptera (Beetles)					
Lissobiops serpentinus	A Rove Beetle		SE	GNR	S1
Insect: Ephemeroptera (Mayflies)					
Paracloeodes minutus	A Small Minnow Mayfly		SR	G5	S2
Insect: Lepidoptera (Butterflies & Moths)					
Speyeria idalia	Regal Fritillary		SE	G3	S1
Insect: Mecoptera					
Merope tuber	Earwig Scorpionfly		SE	G3G5	S1
Insect: Odonata (Dragonflies & Damselflies)					
Erpetogomphus designatus	Eastern Ringtail		ST	G5	S2
Somatochlora tenebrosa	Clamp-tipped Emerald		SR	G5	S2S3
Fish					
Etheostoma tippecanoe	Tippecanoe Darter		SSC	G3G4	S3
Amphibian					
Hemidactylium scutatum	Four-toed Salamander		SSC	G5	S2

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list
GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank
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Reptile					
<i>Clemmys guttata</i>	Spotted Turtle		SE	G5	S2
<i>Emydoidea blandingii</i>	Blanding's Turtle		SE	G4	S2
<i>Liochlorophis vernalis</i>	Smooth Green Snake		SE	G5	S2
<i>Terrapene carolina carolina</i>	Eastern Box Turtle		SSC	G5T5	S3
<i>Terrapene ornata ornata</i>	Ornate Box Turtle		SE	G5T5	S1
Bird					
<i>Aimophila aestivalis</i>	Bachman's Sparrow			G3	SXB
<i>Ammodramus henslowii</i>	Henslow's Sparrow		SE	G4	S3B
<i>Ardea herodias</i>	Great Blue Heron			G5	S4B
<i>Asio flammeus</i>	Short-eared Owl		SE	G5	S2
<i>Asio otus</i>	Long-eared Owl			G5	S2
<i>Aythya collaris</i>	Ring-necked Duck			G5	SHB
<i>Bartramia longicauda</i>	Upland Sandpiper		SE	G5	S3B
<i>Botaurus lentiginosus</i>	American Bittern		SE	G4	S2B
<i>Buteo platypterus</i>	Broad-winged Hawk	No Status	SSC	G5	S3B
<i>Carduelis pinus</i>	Pine Siskin			G5	S3N
<i>Cistothorus platensis</i>	Sedge Wren		SE	G5	S3B
<i>Dendroica cerulea</i>	Cerulean Warbler		SE	G4	S3B
<i>Falco peregrinus</i>	Peregrine Falcon	No Status	SE	G4	S2B
<i>Grus canadensis</i>	Sandhill Crane	No Status	SSC	G5	S2B,S1N
<i>Haliaeetus leucocephalus</i>	Bald Eagle	LT,PDL	SSC	G5	S2
<i>Ixobrychus exilis</i>	Least Bittern		SE	G5	S3B
<i>Lanius ludovicianus</i>	Loggerhead Shrike	No Status	SE	G4	S3B
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron		SE	G5	S1B
<i>Rallus elegans</i>	King Rail		SE	G4	S1B
<i>Sturnella neglecta</i>	Western Meadowlark		SSC	G5	S2B
<i>Tyto alba</i>	Barn Owl		SE	G5	S2
Mammal					
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat		SSC	G3G4	SH
<i>Geomys bursarius</i>	Plains Pocket Gopher		SSC	G5	S2
<i>Lasiurus borealis</i>	Eastern Red Bat		SSC	G5	S4
<i>Mustela nivalis</i>	Least Weasel		SSC	G5	S2?
<i>Myotis septentrionalis</i>	Northern Myotis		SSC	G4	S3
<i>Myotis sodalis</i>	Indiana Bat or Social Myotis	LE	SE	G2	S1
<i>Nycticeius humeralis</i>	Evening Bat		SE	G5	S1
<i>Reithrodontomys megalotis</i>	Western Harvest Mouse			G5	S2
<i>Spermophilus franklinii</i>	Franklin's Ground Squirrel		SE	G5	S2
<i>Taxidea taxus</i>	American Badger		SSC	G5	S2

Vascular Plant

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Androsace occidentalis	Western Rockjasmine		ST	G5	S2
Arenaria patula	Pitcher's Stitchwort		SE	G4	S1
Aster oblongifolius	Aromatic Aster		SR	G5	S2
Astragalus tennesseensis	Tennessee Milk-vetch		SRE	G3	SX
Bacopa rotundifolia	Roundleaf Water-hyssop		ST	G5	S1
Besseyia bullii	Kitten Tails		SE	G3	S1
Botrychium matricariifolium	Chamomile Grape-fern		SR	G5	S2
Botrychium simplex	Least Grape-fern		SE	G5	S1
Camassia angusta	Wild Hyacinth		SE	G5?Q	S1
Carex flava	Yellow Sedge		ST	G5	S2
Carex gravida	Heavy Sedge		SE	G5	S1
Chelone obliqua var. speciosa	Rose Turtlehead		WL	G4T3	S3
Chrysopsis villosa	Hairy Golden-aster		ST	G5	S2
Circaea alpina	Small Enchanter's Nightshade		SX	G5	SX
Cirsium hillii	Hill's Thistle		SE	G3	S1
Coeloglossum viride var. virescens	Long-bract Green Orchis		ST	G5T5	S2
Crataegus pedicellata	Scarlet Hawthorn		ST	G5	S2
Cypripedium candidum	Small White Lady's-slipper		WL	G4	S2
Eriophorum angustifolium	Narrow-leaved Cotton-grass		SR	G5	S2
Erysimum capitatum	Prairie-rocket Wallflower		ST	G5	S2
Euphorbia obtusata	Bluntleaf Spurge		SE	G5	S1
Gentiana alba	Yellow Gentian		SR	G4	S2
Houstonia nigricans	Narrowleaf Summer Bluets		SR	G5	S2
Linum sulcatum	Grooved Yellow Flax		SR	G5	S2
Lithospermum incisum	Narrow-leaved Puccoon		SE	G5	S1
Melampyrum lineare	American Cow-wheat		SR	G5	S2
Muhlenbergia cuspidata	Plains Muhlenbergia		SE	G4	S1
Napaea dioica	Glade Mallow		SR	G4	S2
Onosmodium hispidissimum	Shaggy False-gromwell		SE	G4	S1
Orobanche riparia	Bottomland Broomrape		SE	G5	S2
Oryzopsis racemosa	Black-fruit Mountain-ricegrass		SR	G5	S2
Panicum rigidulum var. pubescens	Long-leaved Panic-grass		SX	G5T5?	SX
Plantago cordata	Heart-leaved Plantain		SE	G4	S1
Poa paludigena	Bog Bluegrass		WL	G3	S3
Psoralea tenuiflora	Few-flowered Scurf-pea		SX	G5	SX
Sanguisorba canadensis	Canada Burnet		SE	G5	S1
Selaginella apoda	Meadow Spike-moss		WL	G5	S1
Silene regia	Royal Catchfly		ST	G3	S2
Trichostema dichotomum	Forked Bluecurl		SR	G5	S2
Viola pedatifida	Prairie Violet		ST	G5	S2

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High Quality Natural Community					
Barrens - gravel	Gravel Slope Barrens		SG	G3	S1
Barrens - sand	Sand Barrens		SG	G3	S2
Forest - upland dry-mesic	Dry-mesic Upland Forest		SG	G4	S4
Forest - upland mesic	Mesic Upland Forest		SG	G3?	S3
Lake - lake	Lake		SG	GNR	S2
Prairie - dry-mesic	Dry-mesic Prairie		SG	G3	S2
Wetland - fen	Fen		SG	G3	S3
Wetland - marsh	Marsh		SG	GU	S4
Wetland - seep circumneutral	Circumneutral Seep		SG	GU	S1
Other Significant Feature					
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

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