

WETLAND DELINEATION AND WATERS REPORT

CLINTON STREET ROADWAY IMPROVEMENT PROJECT FORT WAYNE, ALLEN COUNTY, INDIANA 41.164306, -85.102170



Prepared for:

CITY OF FORT WAYNE
CITIZENS SQUARE
200 EAST BERRY ST., SUITE 425
FORT WAYNE, IN 46802

ALLEN COUNTY HIGHWAY DEPARTMENT
CITIZEN SQAURE
200 EAST BERRY ST., SUITE 280
FORT WAYNE, IN 46802

Prepared by:

AMERICAN STRUCTUREPOINT, INC. 9025 RIVER ROAD INDIANAPOLIS, INDIANA 46240 (317) 547-5580



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1.0 Introduction

American Structurepoint, Inc. was contracted by the City of Fort Wayne and Allen County Highway Department to perform a wetland delineation and waters investigation for the Clinton Street Roadway Improvement Project in Fort Wayne, Allen County, Indiana.

Date of Field Reconnaissance: September 20, 2022 and September 27, 2022

Project Location:

Latitude/Longi	tude	41.164	1306, -85.102170
Cedarville, Indi	ana 7.5 Minu	te Quad	rangles
Section Township			Range
4, 5, 7, 8, 18 31 North			13 East

Project Description:

The proposed project would consist of the reconstruction of Clinton Street, widening sections of the roadway to 5 lanes with a center island wherever possible, adding sidewalks and a multi-use path, and installing new curbs, gutters, and storm sewers throughout the project area. The project would also realign the intersection of Clinton Street and Wallen Road and add a new traffic signal. New bridges and small structures would be constructed along Clinton Street as needed.

The investigated area encompasses approximately 98 acres located along North Clinton Street in Fort Wayne, Allen County, Indiana. The project area begins at the intersection of North Clinton Street and Auburn Road and extends northeast approximately 3.1 miles to the intersection of North Clinton Street and Mayhew Road. The location and approximate boundaries of the investigated area can be seen in the attached maps and aerial photographs (Appendix D).

The proposed project is located in Land Resource Region (LRR) M, as recognized by the US Department of Agriculture. As such, this wetland delineation was conducted in accordance with the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* (U.S. Army Corps of Engineers, 2010).

Twenty-five (25) wetlands (Wetland 1 through 6, 7-A, 7-B, 8 through 10, 11-A, 11-B, 12, 13-A, 13-B, 14-A, 14-B, and 15 through 21) totaling 1.572 acres; 8 streams (Unnamed Tributary [UNT] 1 through UNT 3 to Beckett's Run, Beckett's Run, Swift Ditch, UNT 1 to St. Joseph River, Martin Ditch, and UNT 1 to Martin Ditch) totaling 1,736 linear feet (0.448 acre); and one pond (Pond 1) totaling 0.30 acre, were delineated within the investigated area. All delineated features were found to drain to the St. Joseph River, a Traditional Navigable Waterway (TNW). Therefore, it is anticipated that all delineated resources would be considered jurisdictional Waters of the U.S.



2.0 Definitions

2.1 "Waters of the US"

"Waters of the US" are within the jurisdiction of the US Department of the Army Corps of Engineers (USACE) under the Clean Water Act of 1972, Section 404. "Waters of the US" is a broad term that describes all interstate waters and any water that affects interstate traffic or commerce. Included are wetlands and tributaries adjacent to navigable "waters of the US" and other waters where degradation or destruction could affect interstate or foreign commerce. This includes rivers, streams, wetlands, and many ditches where permits are required for the discharge of dredged or fill material pursuant to Section 404 of the Clean Water Act.

2.2 "Waters of the State" and Isolated Wetlands

"Waters of the State" include all intrastate waters and wetlands that are not hydrologically connected or adjacent to interstate waters. "Waters of the State" include isolated wetlands determined not to be "waters of the US" or jurisdictional wetlands under the January 9, 2001, US Supreme Court ruling [see Solid Waste Agency of Northern Cook County (SWANCC) v. US Army Corps of Engineers]. Isolated wetlands refer to those non-tidal "waters of the US" that are not part of a surface tributary in interstate/navigable waters and are not adjacent to such tributary water bodies.

2.3 Wetlands

Wetlands are "waters of the US" or "waters of the State". Section 404 of the Clean Water Act defines wetlands as those areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support and under normal conditions do support a prevalence of vegetation typically adapted for life in saturated soil conditions.

2.4 Regulatory Authority and Requirements

The USACE regulates the nation's waters for navigation and the full public interest for both the protection and utilization of water resources. The regulatory authorities and responsibilities of the USACE are based on the following laws:

- <u>Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403)</u> prohibits the obstruction or alteration of navigable waters of the United States without a permit from the USACE.
- <u>Section 404 of the Clean Water Act (33 U.S.C. 1344)</u>. Section 301 of this Act prohibits the discharge of dredged or fill material into "waters of the US" without a permit from the USACE.
- Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972, as amended (33 U.S.C. 1413) authorizes the USACE to issue permits for the transportation of dredged material for the purpose of dumping it into ocean waters.

If filling or dredging operations are proposed to occur with the boundary of a "waters of the US" a Section 404 permit must be obtained from USACE before those activities are conducted. Three types of permits are issued by USACE within the State of Indiana: nationwide permits, the Regional General Permit for Indiana, and Individual Permits. Nationwide permits have been developed for projects meeting specific criteria and have a minimal impact to the regulated resources. Minimal impacts are generally classified as less than 0.5 acre of permanent impacts or temporary impacts depending on the activity to be undertaken. The Regional General Permit (RGP) for Indiana has been developed for projects meeting specific criteria and has



a minimal impact to the regulated resources within the State of Indiana. The RGP authorizes activities associated with any construction activities impacting less than one acre of wetlands or less than 1,500 linear feet of regulated waterway. Individual Section 404 Permits (site specific permits) are required for any construction activities impacting greater than one acre of regulated resources.

All activities that require a Section 404 Permit from USACE will also require a Section 401 Water Quality Certification (or a waiver) from the Indiana Department of Environmental Management (IDEM). On December 12, 2014 IDEM issued a Water Quality Certification for projects meeting specific criteria and conditions for the Indiana RGP and on March 15, 2017 IDEM issued a Water Quality Certification for projects meeting specific criteria and conditions for multiple Nationwide Permits. The specific conditions limit these Water Quality Certifications to projects with less than 0.1 acre and 300 linear feet of impacts to wetlands and waterways. An Individual Section 401 Water Quality Certification is required for projects impacting greater than 0.1 acre or 300 linear feet of wetlands or waterways.

Under the 2001 US Supreme Court Ruling (SWANCC), filling or dredging of isolated wetlands does not require notification of USACE. However, it is necessary to notify the IDEM for such projects and obtain a permit from the agency under State Wetland Law. All activities affecting "waters of the State" that are not considered to be "waters of the US" will require a State Wetland Permit under IC 13-18.

3.0 Methodology

The study area was analyzed using methods outlined in the Routine Determination, On-site Inspection Necessary procedure in the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* (U.S. Army Corps of Engineers, 2010). The 1987 USACE Manual and the Regional Supplemental Documents require wetland boundaries to be delineated using a 3-parameter approach: hydrophytic vegetation, hydric soils, and wetland hydrology.

3.1 Hydrophytic Vegetation

Hydrophytic vegetation criteria are met by the rapid test for hydrophytic vegetation, the dominance test, the prevalence index, or morphological adoptions.

The rapid test for hydrophytic vegetation is met if all dominated species across all strata are rated as obligate (OBL), or facultative wetland (FACW), or a combination based on a visual assessment.

The indicator status of plant species is based on the estimated probabilities of that species occurring in wetland conditions. The indicator status categories are defined as follows.



PLANT INDICATOR STATUS CATEGORIES (Environmental Laboratory, 1987)

INDICATOR CATEGORY	INDICATOR SYMBOL	<u>DEFINITION</u>
Obligate Wetland Plants	OBL	Plants that occur almost always (probability >99 percent) in wetland under natural conditions. Species rarely occur in non-wetland (probability <1 percent).
Facultative Wetlands Plants	FACW	Plants that usually occur in wetland (probability 67 to 99 percent) may also occur in non-wetland (probability 1 to 33 percent).
Facultative Plants	FAC	Plants that are equally likely to occur in wetland or non-wetland (probability 33 to 67 percent).
Facultative Upland Plants	FACU	Plants that sometimes occur in wetland (probability 1 to 33 percent) but occur more often in non-wetland (probability 67 to 99 percent).
Upland Plants	UPL	Plants that occur almost always (probability >99 percent) in non-wetland under natural conditions. Species rarely occur in wetland (probability <1 percent).

The dominance test for hydrophytic vegetation is met if more than 50 percent of the dominant plants species across all strata are rated OBL, FACW, or FAC.

If a community fails the Rapid Test and the Dominance Test, and both hydric soils and hydrology are present, then two additional wetland vegetation indicators should be assessed. These are the prevalence index and morphological adaptations. If either a prevalence of species noted in the sampling plot are hydrophytic or if morphological indicators are present, then the area is considered to have hydrophytic vegetation.

3.2 Hydric Soils

Hydric soils criteria are met with the presence of soils flooded for a long duration or very long duration during the growing season. Hydric soil indicators are formed predominately by the accumulation or loss of iron, manganese, sulfur, or carbon compounds in saturated and anaerobic conditions. Anaerobic conditions created by repeated or prolonged saturation or flooding result in permanent changes in soil color and chemistry, which are used to determine the presence of hydric soils.

Soils on a particular site are analyzed to determine whether they meet the hydric criteria. In the absence of groundwater, this analysis is performed by looking for acceptable indicators that suggest the soil is saturated, flooded, or ponded for a duration long enough to support anaerobic conditions near the surface. Field indicators of hydric soils, such as gleyed matrix, depleted matrix, redox dark surface or depressions, or depleted dark surface, are common hydric soil indicators in Indiana.

3.3 Wetland Hydrology

Wetland hydrology criteria is met or assumed by the presence of soils inundated or saturated under normal circumstances for periods long enough to support a prevalence of wetland vegetation. Hydrology is



controlled by such factors as rainfall patterns, local geology and topography, soil type, local water table, and drainage. Primary indicators of wetland hydrology include inundation, soil saturation, watermarks, sediment deposits, sparse vegetation, and inundation visible on the aerial photography. Secondary indicators include cracked soils, drainage patterns, and FAC-neutral vegetation. A single primary indicator or two secondary indicators are necessary to determine the presence of wetland hydrology.

All three parameters must be present for a site to be considered "waters of the State" or "waters of the US."

3.4 Stream Habitat

The Qualitative Habitat Evaluation Index (QHEI) is used to determine existing stream impairments and aid in mitigating future impacts. The QHEI is composed of six metrics; substrate, in-stream cover, channel morphology, riparian zone and bank erosion, pool/glide and riffle run quality, and map gradient. Each metric is scored individually and then summed, resulting in a total QHEI score for the targeted reach of stream.

The primary Headwater Habitat Evaluation Index (HHEI) is used to determine existing impairments and aid in mitigating future impacts to primary headwater habitat streams. A primary headwater habitat stream is described as a jurisdictional surface water that has a defined bed and bank, with either continuous or periodical flowing water, with a watershed area less than or equal to one square mile, and maximum depth of water pools equal to or less than 40 cm. The HHEI is composed of three metrics: substrate, maximum pool depth, and bank full width. Each metric is scored individually, and then summed, resulting in a total HHEI score for the targeted reach of headwater stream.

Methodology described in the *Methods for Assessing Habitat in Flowing Waters: Using the Qualitative Habitat Evaluation Index* (QHEI) manual (OhioEPA, Division of Surface Water, 2006)) was used for assessing streams. Additional methodology described in the *Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams* (Ohio EPA, Division of Surface Water, 2012) was used in assessing primary headwaters.



4.0 Site Characterization – Records Review

4.1 USGS Topographic Mapping

The 1:24,000-scale Topographic Quadrangle Map is the primary scale of topographic data produced by the United States Geological Survey (USGS). Since the late 19th century, the USGS has been producing topographic quadrangle maps that show shape and elevation of the land, transportation networks, drainage patterns, vegetation, and buildings. These maps are used for a variety of purposes, including industrial site selection, highway planning, and recreation, and they are also a valuable source for local history. Features such as vegetation (green), water (blue) and densely built-up areas (gray or red) are shown as shaded areas on the map. Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. Colors of the lines usually indicate similar classes of information: topographic contours (brown); lakes, streams, irrigation ditches, and other hydrographic features (blue); land grids and important roads (red); and other roads and trails, railroads, boundaries, and other cultural features (black). Various point symbols are used to depict features such as buildings, campgrounds, springs, water tanks, mines, survey control points, and wells. Names of places and features are shown in a color corresponding to the type of feature.

The investigated area is located on the Cedarville USGS 7.5 Minute Topographic Quadrangle map in Sections 4, 5, 7, 8, and 18, Township 31 North, Range 13 East. The map depicts the investigated area as mostly cleared land (white shading) with forested areas (green shading) near the northern and southern termini of the investigated area and south of the intersection of North Clinton Street and Wallen Road. Beckett's Run is depicted as a perennial stream (solid blue line) flowing west to east across the investigated area north of the intersection of Jacobs Creek Run. Swift Ditch is depicted as an intermittent stream (dashed blue line) flowing south across the investigated area beneath Wallen Road and Clinton Street. Martin Ditch is also depicted as an intermittent stream flowing southeast across the project area west of the intersection of Mayhew Road. Beckett's Run, Swift Ditch, and Martin Ditch were field verified during the site visits on September 20, 2022 and September 27, 2022.

4.2 National Wetlands Inventory (NWI) Mapping

For 25 years, the US Fish and Wildlife Service (USFWS) has provided federal and state agencies, the private sector, and citizens with scientific data on wetland location, extent, status, and trends. The USFWS's National Wetlands Inventory (NWI) program works to complete baseline wetland mapping in the lower 48 states and Alaska. Most NWI maps were produced using photography from the 1980s. Maps for less than five percent of the nation were made using 1990s or more recent photography. Most NWI map products have not been field verified and are subject to regulatory review. However, these maps serve as a planning tool for service and non-profit wetland acquisition programs, fishery restoration, floodplain and watershed planning, endangered species recovery efforts, and to plan for energy resource and infrastructure development.

The NWI Mapping was reviewed for the investigated area. Two mapped wetlands are located within the investigated area. One NWI Wetland is located within the investigated area in the southeast quadrant of the intersection of North Clinton Street and Riveroak Drive and is characterized as Palustrine, Unconsolidated Bottom, Intermittently Exposed, Excavated (PUBGx) under the Cowardin Classification System. This wetland was field verified as Pond 1 during the field investigation on September 20, 2022. A second NWI Wetland is located within the investigated area in the northwest quadrant of the intersection of Wallen Road and North



Clinton Street and is characterized as Palustrine, Unconsolidated Bottom, Intermittently Exposed (PUBG) under the Cowardin Classification System. This wetland was field verified as Wetland 13-A and Wetland 13-B during the field investigation on September 20, 2022.

4.3 County Soil Survey

The Natural Resource Conservation Services (NRCS) has prepared soil survey and mapping for each county. Soil surveys furnish soil maps and interpretations necessary to provide technical assistance to farmers and ranchers to be utilized in planning and land management. Soil surveys generally contain mapping of unique or potential areas of concern such as areas of peat or muck, steep slopes, wetlands, and drainage lines. In addition to the published soils surveys, information, spatial data, and mapping of soils is available through the NRCS Soil Data Mart, which provides the most current data about the soils. Spatial data available through the Soil Data Mart often does not contain information regarding areas of concern. As such, both the published soil survey and the up—to-date data available from the Soil Data Mart are included for reference.

The NRCS Soil Survey Geographic Database (SSURGO) was reviewed to determine soil classification within the investigated area. Soil types mapped within the investigated area include:

Soil Map Unit Summary						
Map Unit Name	Map Unit Symbol	SSURGO Hydric Rating by Map Unit				
Blount loam, interlobate moraines, 0 to 2 percent slopes	BmA	5				
Blount silt loam, 2 to 6 percent slopes	BmB	10				
Eel silt loam, 0 to 2 percent slopes, frequently flooded	Es	4				
Glynwood silt loam, 2 to 6 percent slopes	MrB	4				
Glynwood silt loam, 2 to 6 percent slopes, eroded	MrB2	4				
Morley silt loam, 6 to 12 percent slopes, eroded	MrC3	3				
Morley silty clay loam, 6 to 12 percent slopes, severely eroded	MsC3	0				
Pewamo silty clay loam, 0 to 1 percent slopes	Pe	91				



4.4 Aerial Photography

The Indiana Geographic Information Council (IGIC), in partnership with state and local agencies, sponsored a program that created high-resolution orthophotography for counties on a statewide basis to support homeland security, emergency management, and other business and government applications. Digital orthophotography provides all of the visual content of a photograph, while being as accurate as a map for measurements. These qualities allow for accurate distance measurements, area calculations, determination of feature shape, direction calculations, and determination of coordinates at a given location. Orthophotography provides a base map in a geographic information system (GIS) for emergency response planning and modeling, law enforcement, public health agencies, property management, census, tax assessment, flood mapping, planning, and economic development.

Aerial photography from 2022 (NearMap) was reviewed for the project area. The 2022 aerial photography depicts the investigated area primarily as developed residential and commercial land. Forested areas and agricultural fields are also visible at various locations along the corridor. The three streams noted on the USGS Topo Quad are visible in the same areas on the aerial. Additionally, UNT 1 to Martin Ditch is visible flowing north to south beneath Clinton Street approximately 0.24 mile southwest of the intersection of Clinton Street and Mayhew Road. The NWI wetlands noted above are visible as areas of dark soil or inundation. Dark soils, associated with Wetland 14-A, are also visible on the north side of Clinton Street, northeast of the intersection of Clinton Street and Wallen Road. An area with standing water, associated with Wetland 20, is visible in a forested area on the south side of Clinton Street, southwest of the intersection of Bethel Creek Blvd. The 2022 NearMap aerial is representative of the site during the September 20, 2022 and September 27, 2022 field investigations, except that construction has currently begun on two new stormwater features in the northwest quadrant of the intersection of Clinton Street and Mayhew Road.

4.5 Floodways and Floodplains

A "Regulatory Floodway" is the channel of a river or other watercourse and the adjacent land that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. The Indiana Department of Natural Resources Division of Water regulates these floodways within the state. Mapping of the regulated floodway and the floodplain, if a floodway had not been designated was completed by the Federal Emergency Management Agency (FEMA).

The FEMA designated floodway associated with Beckett's Run crosses the project area approximately 0.04 mile north of the intersection of Clinton Street and Jacobs Creek Run. At its widest point within the investigated area, the floodplain is 761 feet wide. The FEMA designated floodway associated with Swift Ditch crosses the project area approximately 0.08 mile east of the intersection of Clinton Street and Wallen Road. At its widest point within the investigated area, the floodplain is 347 feet wide. Additionally, the FEMA designated floodway associated with Martin Ditch and a floodplain associated with an unnamed tributary, identified as UNT 1 to Martin Ditch during the field investigation on September 27, 2022, cross the project area approximately 0.24 mile southwest of the intersection of Clinton Street and Mayhew Road. At their widest points within the investigated area, the floodway is approximately 131 feet wide and the floodplain is approximately 884 feet wide.



4.6 National Hydrography Dataset Flow Lines

The USGS National Hydrography Dataset (NHD) Local Resolution and Unclassified Flowlines were reviewed for the investigated area. Nine (9) USGS National Hydrography Dataset (NHD) flow lines are present in the investigated area.

	NHD Summary	
NHD Flow line Name	Location	Field Verified
Canal/Ditch	Southwest and northwest quadrants of the	Yes, Wetland 1 was
	intersection of Clinton Street and Auburn Road	identified within this feature
		in the SW quadrant
Pipeline	Northwest and northeast quadrants of the	Yes, a stormwater drainage
	intersection of Clinton Street and Auburn Road	inlet was observed at this
		location
Canal/Ditch	Northeast quadrant of the intersection of Clinton	Yes, identified as UNT 1 to
	Street and Jacobs Creek Run	Becketts Run and UNT 3 to
		Beckett's Run
Pipeline	Northeast and southeast quadrants of the	Yes, a pipe was observed
	intersection of Clinton Street and Jacobs Creek	conveying drainage beneath
	Run	Jacobs Creek Run
Beckett's Run	Approximately 0.13 mile north of the	Yes, identified as Beckett's
	intersection of Clinton Street and Jacobs Creek	Run
	Run	
Swift Ditch	Approximately 0.9 mile west of the intersection	Yes, identified as Swift Ditch
	of Clinton Street and Wallen Road	
Martin Ditch	Approximately 0.15 mile southwest of the	Yes, identified as Martin
	intersection of Clinton Street and Bent Creek	Ditch
	Boulevard	
Canal/Ditch	Southeast and southwest quadrants of the	Yes, Wetland 21 was
	intersection of Clinton Street and Bent Creek	identified within this feature
	Boulevard	
Pipeline	Southwest quadrant of the intersection of	Yes, this appears to be
	Clinton Street and Mayhew Road	associated with a
		stormwater pipe which
		conveys drainage to
		Wetland 21

4.7 Legal Drain

Some waterways in which the function of the channel is considered necessary to drain the landscape to protect the livelihood and safety of the general public are considered to be "legal drains." These waterways often include a system of pipes and open ditches and are generally under the jurisdiction of the County Surveyor who is responsible for their continued maintenance and function. Funding for maintenance of legal drains is typically provided by assessments to the adjoining property owners.



The Allen County GIS Engineering Viewer (http://www.acimap.us/engineering.html) was accessed on October 10, 2022 by American Structurepoint, Inc. staff to determine if any legal drains are located within the investigated area. The website indicated that Swift Ditch, which crosses the intersection of Clinton Street and Wallen Road, is an Allen County Legal Drain.

4.8 12-Digit Hydrologic Unit Code

The USGS 12-Digit Hydrologic Unit Code (HUC) mapping was reviewed for the investigated area. The investigated area is located within both the Ely Run-St. Joseph River 12-digit HUC (041000030806) and the Beckket's Run-St. Joseph River 12-digit HUC (041000050102).

5.0 Field Reconnaissance

The Clinton Street Roadway Improvement Project was examined for the presence of wetlands and waters of the U.S. on the site on September 20, 2022 and September 27, 2022. Data points were strategically placed to identify appropriate boundaries of delineated wetlands and to determine the presence or absence of jurisdictional wetlands and waters of the U.S. Twenty-five (25) wetlands (Wetland 1 through 6, 7-A, 7-B, 8 through 10, 11-A, 11-B, 12, 13-A, 13-B, 14-A, 14-B, and 15 through 21) totaling 1.572 acres; 8 streams (UNT 1 through UNT 3 to Beckett's Run, Beckett's Run, Swift Ditch, UNT 1 to St. Joseph River, Martin Ditch, and UNT 1 to Martin Ditch) totaling 1,736 linear feet (0.448 acre); and one pond (Pond 1) totaling 0.30 acre, were delineated within the investigated area. Data sheets and a map indicating the location of data points documenting the field investigation are included in the appendix.

5.1 Wetlands

5.1.1 Wetland 1

Wetland 1 is an emergent wetland located in the southwest quadrant of the intersection of Auburn Road and Clinton Street. Wetland 1 was delineated for 0.051 acre and extends west beyond the investigated area. Wetland 1 is located within a constructed ditch and receives drainage from the roadway and surrounding landscape. Wetland 1 is located within a roadside drainage system which drains generally southeast to an unnamed tributary, locally known as Fox Chase Run, which drains to the St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 1 would be considered a jurisdictional Waters of the U.S.

The dominant vegetation within Wetland 1 consisted of narrow-leaf cattail (*Typha angustifolia*) within the herbaceous stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrologic indicators included Water Stained Leaves (B9), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 1 would be considered a Palustrine, Emergent, Persistent, Temporarily Flooded, Partly Drained/Ditched (PEM1Ad) under the Cowardin Classification System. Wetland 1 would be considered a poor quality wetland due to the dominance of non-native vegetation. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 1 in Appendix B. DP 2, included in Appendix B, is representative of the upland area surrounding Wetland 1. DP 2 lacked the hydrophytic vegetation, hydric soils, and hydrology necessary to be considered a wetland.

5.1.2 Wetland 2

Wetland 2 is a forested wetland located to the west of Clinton Street, approximately 238 feet north of the intersection of Clinton Street and Jacobs Creek Run. Wetland 2 was delineated for approximately 0.018 acre



and extends west beyond the investigated area. Wetland 2 is located in a low lying area within the floodplain of Becketts Run. The wetland appears to receive drainage from the surrounding forested landscape and is located within the active floodplain of Becketts Run. Wetland 2 drains north along topographic contours through Wetlands 3 and 4 to Becketts Run, which drains east to the St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 2 would be considered a jurisdictional Waters of the U.S.

The dominant vegetation within Wetland 2 consisted of American elm (*Ulmus Americana*) and sycamore (*Platanus occidentalis*) within the tree stratum, as well as paw paw (*Asimina triloba*) and spicebush (*Lindera benzoin*) within the sapling/shrub stratum. There were no dominant species within the herb or woody vine stratums. Hydric soil indicators included Depleted Below Dark Surface (A11) and Depleted Matrix (F3). Hydrologic indicators included Sparsely Vegetated Concave Surface (B8), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 2 would be considered Palustrine, Forested, Broad-Leaved Deciduous, Temporarily Flooded (PFO1A) under the Cowardin Classification System. The wetland is of average quality due to presence of native species, but is limited due to its proximity to both Clinton Street and residential development. For reference to field data collected of this this wetland, see DP4 in Appendix B. DP5, included in Appendix B, is representative of the upland area surrounding Wetland 2. DP5 possessed hydrophytic vegetation, but lacked the hydric soils and hydrology necessary to be considered a wetland.

5.1.3 Wetland 3

Wetland 3 is a forested wetland located to the west of Clinton Street, approximately 0.047 mile north of the intersection of Clinton Street and Jacobs Creek Run. Wetland 3 was delineated for approximately 0.034 acre and is wholly contained within the investigated area. Wetland 3 is located in a low lying area within the floodplain of Becketts Run. The wetland appears to receive drainage from the surrounding forested landscape and is located within the active floodplain of Becketts Run. Wetland 3 drains north along topographic contours through Wetland 4 to Becketts Run, which drains east to the St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 3 would be considered a jurisdictional Waters of the U.S.

The dominant vegetation within Wetland 3 consisted of American elm (*Ulmus Americana*) and eastern cottonwood (*Populus deltoides*) within the tree stratum; green ash (*Fraxinus pensylvanica*) and spicebush (*Lindera benzoin*) within the sapling/shrub stratum; and poison ivy (*Toxicodendron radicans*) and giant goldenrod (*Solidago gigantea*) within the herbaceous stratum. Hydric soil indicators included Depleted Below Dark Surface (A11) and Depleted Matrix (F3). Hydrologic indicators included Drift Deposits (B3), Sparsely Vegetated Concave Surface (B8), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 3 would be considered a PFO1A under the Cowardin Classification System. The wetland is of average quality due to presence of native species, but is limited due to its proximity to both Clinton Street and residential development. For reference to field data collected for this wetland, see DP 6 in Appendix B. DP5, included in Appendix B, is representative of the upland area surrounding Wetland 3. DP5 possessed hydrophytic vegetation, but lacked the hydric soils and hydrology necessary to be considered a wetland.

5.1.4 Wetland 4

Wetland 4 is an emergent wetland located to the west of Clinton Street, approximately 0.072 mile north of the intersection of Clinton Street and Jacobs Creek Run. Wetland 4 was delineated for approximately 0.058 acre and is wholly contained within the investigated area. Wetland 4 is located in a low lying area within the floodplain of Becketts Run. The wetland appears to receive drainage from the surrounding forested landscape and is located within the active floodplain of Becketts Run. Wetland 4 drains north along



topographic contours to Becketts Run, which drains east to the St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 4 would be considered a jurisdictional Waters of the U.S.

The dominant vegetation within Wetland 4 consisted of green ash (*Fraxinus pennsylvanica*) within the tree stratum and creeping jenny (*Lysimachia nummularia*) within the herbaceous stratum. Although the wetland included trees this was not a dominant component of the absolute cover of the wetland. Hydric soil indicators included Depleted Below Dark Surface (A11), Depleted Matrix (F3), and Redox Dark Surface (F6). Hydrologic indicators included Drift Deposits (B3), Sparsely Vegetated Concave Surface (B8), Water-stained Leaves (B9), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 4 would be considered Palustrine, Emergent, Persistent, Temporarily Flooded (PEM1A) under the Cowardin Classification System. The wetland is of average quality due to presence of native species, but is limited due to its proximity to both Clinton Street and residential development. The wetland is of average quality due to the dominant native vegetation but is limited due to its location and surrounding development. For reference to field data collected for this wetland, see DP 7 in Appendix B. DP 8, included in Appendix B, is representative of the upland area surrounding Wetland 4. DP 8 possessed hydrophytic vegetation, but lacked the hydric soil and hydrology necessary to be considered a wetland.

5.1.5 Wetland 5

Wetland 5 is an emergent wetland located on the east side of Clinton Street, approximately 0.054 mile north of the intersection of Clinton Street and Jacobs Creek Run. Wetland 5 was delineated for approximately 0.211 acre and is wholly contained within the investigated area. Wetland 5 is located in a low lying area where multiple streams lose definition and converge. The wetland appears to receive drainage from two ephemeral streams, UNT 1 to Becketts Run and UNT 2 to Becketts Run, which flow into the wetland and lose defined bed and bank. Wetland 5 is drained to the north by UNT 3 to Becketts Run, which drains to Becketts Run, which drains to the St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 5 would be considered a Jurisdictional Waters of the U.S.

The dominant vegetation within Wetland 5 consisted of witchgrass (*Panicum capillare*) and dotted smartweed (*Persicaria punctata*) within the herbaceous stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrologic indicators included Saturation at the surface (A3), Algal Mat (B4), Drainage Patterns (B10), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 5 would be considered a PEM1A under the Cowardin Classification System. The wetland is of poor quality due to its location in a utility easement and regular disturbance by mowing. For reference to field data collected for this wetland, see DP 9 in Appendix B. DP 10, included in Appendix B, is representative of the upland area surrounding Wetland 5. DP 10 possessed hydric soils, but lacked the hydrophytic vegetation and hydrology necessary to be considered a wetland.

5.1.6 Wetland 6

Wetland 6 is a forested wetland located to the west of Clinton Street, approximately 0.13 mile north of the intersection of Clinton Street and Jacobs Creek Run. Wetland 6 was delineated for approximately 0.042 acre and is wholly contained within the investigated area. Wetland 6 is located in a low lying area within the floodplain of Becketts Run. The wetland appears to receive drainage from the surrounding forested landscape and is located within the active floodplain of Becketts Run. Wetland 6 drains south along topographic contours to Becketts Run, which drains east to the St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 4 would be considered a jurisdictional Waters of the U.S.



The dominant vegetation within Wetland 6 consisted of green ash (*Fraxinus pennsylvanica*), American elm (*Ulmus Americana*), and eastern cottonwood (*Populus deltoides*) within the tree stratum; green ash (*Fraxinus pennsylvanica*) within the sapling/shrub stratum; as well as creeping jenny (*Lysimachia nummularia*) and fowl manna grass (*Glyceria striata*) within the herbaceous stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrologic indicators included Drift Deposits (B3), Sparsely Vegetated Concave Surface (B8), Water Stained Leaves (B9), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 6 would be considered a PFO1A under the Cowardin Classification System. The wetland is of average quality due to the presence of native vegetation but is limited due to its location and surrounding development. For reference to field data collected for this wetland, see DP 11 in Appendix B. DP 12, included in Appendix B, is representative of the upland area surrounding Wetland 6. DP 12 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.7 Wetland 7-A

Wetland 7-A is an emergent wetland located on the west side of Clinton Street, approximately 0.11 mile south of the intersection of Clinton Street and Riveroak Drive. Wetland 7-A was delineated for approximately 0.097 acre and is wholly contained within the investigated area. Wetland 7-A is directly connected to Wetland 7-B (described below). Wetland 7-A is located within a constructed ditch and receives drainage from the roadway and surrounding landscape. Wetland 7-A drains north to Wetland 7-B which drains north through a drainage structure to Wetland 8, which is located within a roadside drainage system that drains north to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 7-A would be considered a jurisdictional Waters of the U.S.

The dominant vegetation within Wetland 7-A consisted of black willow (*Salix nigra*) within the sapling/shrub stratum and rice cutgrass (*Leersia oryzoides*) within the herbaceous stratum. Although the wetland included saplings/shrubs this was not a dominant component of the absolute cover of the wetland. Hydric soil indicators included Depleted Matrix (F3). Hydrologic indicators included Surface Water at 2 inches (A1), High Water Table at the surface (A2), Saturation at the surface (A3), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 7-A would be considered a PEM1Ad under the Cowardin Classification System. Wetland 7-A would be considered poor quality wetland due to its location in a roadside ditch and surrounding commercial development. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 13 in Appendix B. DP 15, included in Appendix B, is representative of the upland area surrounding Wetland 7-A. DP 15 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.8 Wetland 7-B

Wetland 7-B is a scrub-shrub wetland located on the west side of Clinton Street, approximately 0.1 mile south of the intersection of Clinton Street and Riveroak Drive. Wetland 7-B was delineated for approximately 0.030 acre and is wholly contained within the investigated area. Wetland 7-B is directly connected to Wetland 7-A and is representative of the scrub shrub portion of the wetland. Wetland 7-B is located within a constructed ditch and receives drainage from the roadway and surrounding landscape. Wetland 7-B drains north, through a drainage structure, to Wetland 8, which is located within a roadside drainage system that drains north to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 7-B would be considered a jurisdictional Waters of the U.S.



The dominant vegetation within Wetland 7-B consisted of black willow (*Salix nigra*) within the sapling/shrub stratum and rice cut grass (*Leersia oryzoides*) as well as marsh seed box (*Ludwigia palustris*) within the herbaceous stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrologic indicators included Surface Water at 3 inches (A1), High Water Table at the surface (A2), Saturation at the surface (A3), Geomorphic Position (D2), and FAC Neutral Test (D2). Wetland 7-B would be considered Palustrine, Scrub Shrub, Broad Leaved Deciduous, Temporarily Flooded, Partly Drained/Ditched (PSS1Ad) under the Cowardin Classification System. Wetland 7-B would be considered poor quality wetland due to its location in a roadside ditch and surrounding commercial development. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 14 in Appendix B. DP 15, included in Appendix B, is representative of the upland area surrounding Wetland 7-B. DP 15 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.9 Wetland 8

Wetland 8 is an emergent wetland located on the west side of Clinton Street, approximately 0.09 south of the intersection of Clinton Street and Riveroak Drive. Wetland 8 was delineated for approximately 0.013 acre and is wholly contained within the investigated area. Wetland 8 is located within a constructed roadside ditch and receives drainage from the roadway and surrounding landscape. Wetland 8 drains north through a roadside drainage system which drains to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 8 would be considered a jurisdictional Waters of the U.S.

The dominant vegetation within Wetland 8 consisted of narrow-leaf cattail (*Typha angustifolia*) and Kentucky Bluegrass (*Poa pratensis*) within the herbaceous stratum. Hydric soil indicators included Redox Dark Surface (F6). Hydrologic indicators included Surface Water at 1 inch (A1), High Water Table at the surface (A2), Saturation at the surface (A3), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 8 would be considered a PEM1Ad under the Cowardin Classification System. Wetland 8 would be considered a poor quality wetland due to the dominance of non-native vegetation. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 16 in Appendix B. DP 15, included in Appendix B, is representative of the upland area surrounding Wetland 8. DP 15 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.10 Wetland 9

Wetland 9 is an emergent wetland located in the southwest quadrant of the intersection of Clinton Street and Riveroak Drive. Wetland 9 was delineated for approximately 0.030 acre and is wholly contained within the investigated area. Wetland 9 is located within a constructed roadside ditch and receives drainage from the roadway and surrounding landscape. Wetland 9 drains north through a roadside drainage system which drains to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 9 would be considered a jurisdictional Waters of the U.S.

The dominant vegetation within Wetland 9 consisted of witchgrass (*Panicum capillare*) and common spike rush (*Eleocharis palustris*) within the herbaceous stratum. Hydric soil indicators included Depleted Below Dark Surface (A11) and Depleted Matrix (F3). Hydrology indicators included Standing Water at 1 inch (A1), High Water Table at the surface (A2), Saturation at the surface (A3), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 9 would be considered PEM1Ad under the Cowardin Classification System.



Wetland 9 would be considered a poor quality wetland due to the regular disturbance of vegetation from mowing. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 17 in Appendix B. DP 18, included in Appendix B, is representative of the upland area surrounding Wetland 9. DP 18 possessed hydric soils, but lacked the hydrophytic vegetation and hydrology indicators necessary to be considered a wetland.

5.1.11 Wetland 10

Wetland 10 is an emergent wetland located on the east side of Clinton Street, approximately 0.03 mile north of the intersection of Clinton Street and Riveroak Drive. Wetland 10 was delineated for approximately 0.043 acre and is wholly contained within the investigated area. Wetland 10 is located within a constructed roadside ditch and receives drainage from the roadway and surrounding landscape. Wetland 10 drains north through a roadside drainage system which drains to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 10 would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 10 consisted of barnyard grass (*Echinochloa crus-galli*) and Kentucky bluegrass (*Poa pratensis*) within the herbaceous stratum. Hydric soil indicators included Depleted Below Dark Surface (A11) and Depleted Matrix (F3). Hydrology indicators included Standing Water at 0.5 inch (A1), High Water Table at the surface (A2), Saturation at the surface (A3), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 10 would be considered a PEM1Ad under the Cowardin Classification System. Wetland 10 would be considered a poor quality wetland due to the regular disturbance of vegetation from mowing. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 19 in Appendix B. DP 20, included in Appendix B, is representative of the upland area surrounding Wetland 10. DP 20 possessed hydric soils, but lacked the hydrophytic vegetation and hydrology indicators necessary to be considered a wetland.

5.1.12 Wetland 11-A

Wetland 11-A is a scrub shrub wetland located on the east side of Clinton Street, approximately 0.12 mile southwest of the intersection of Clinton Street and Wallen Road. Wetland 11-A was delineated for approximately 0.034 acre and is wholly contained within the investigated area. Wetland 11-A is directly connected to Wetland 11-B (described below). Wetland 11-A is located in a low lying area within the floodplain of Swift Ditch. Wetland 11-A receives drainage from the surrounding forested landscape and is located within the active floodway of Swift Ditch. Wetland 11-A drains northeast through an erosional feature to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 11-A would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 11-A consisted of gray dogwood (*Cornus racemosa*) and green ash (*Fraxinus pensylvanica*) within the sapling/shrub stratum, and purple loosestrife (*Lythrum salicaria*) and narrow-leaf cattail (*Typha angustifolia*) within the herbaceous stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrology indicators included Algal Mat (B4), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 11-A would be considered Palustrine, Scrub-Shrub, Broad-leaved Deciduous, Temporarily Flooded (PSS1A) under the Cowardin Classification System. The wetland is of poor quality due to the proximity of the roadway and presence of dominant non-native vegetation. For reference to field data collected for this wetland, see DP 21 in Appendix B. DP 22, included in Appendix B, is representative of the upland area surrounding Wetland 11-A. DP 22 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.



5.1.13 Wetland 11-B

Wetland 11-B is an emergent wetland located on the east side of Clinton Street, approximately 0.1 mile southwest of the intersection of Clinton Street and Wallen Road. Wetland 11-B was delineated for approximately 0.026 acre and is wholly contained within the investigated area. Wetland 11-B is directly connected to Wetland 11-A and is representative of the emergent portion of the wetland. Wetland 11-B is located in a low lying area within the floodplain of Swift Ditch. Wetland 11-B receives drainage from the surrounding grassy and forested landscapes and is inundated in a typical year by Swift Ditch. Wetland 11-B drains east to Wetland 11-A, which drains northeast through an erosional feature to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 11-B would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 11-A consisted of barnyard grass (*Echinochloa crus-galli*) and narrow-leaf cattail (*Typha angustifolia*) within the herbaceous stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrology indicators included Algal Mat (B4), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 11-B would be considered PEM1A under the Cowardin Classification System. The wetland is of poor quality due to dominant non-native vegetation and regular disturbance from mowing. For reference to field data collected for this wetland, see DP 23 in Appendix B. DP 22, included in Appendix B, is representative of the upland area surrounding Wetland 11-B. DP 22 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.14 Wetland 12

Wetland 12 is an emergent wetland located on the west side of Clinton Street, approximately 0.13 mile southwest of the intersection of Clinton Street and Wallen Road. Wetland 12 was delineated for approximately 0.003 acre and is wholly contained within the investigated area. Wetland 12 is located within a constructed roadside ditch and receives drainage from the roadway and surrounding landscape. Wetland 12 drains north, through a roadside drainage system, to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 12 would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 12 consisted of narrow-leaf cattail (*Typha angustifolia*) within the herbaceous stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrology indicators included Surface Water at 1 inch (A1), High Water Table at the surface (A2), Saturation at the surface (A3), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 12 would be considered a PEM1Ad under the Cowardin Classification System. Wetland 12 would be considered a poor quality wetland due to the dominance of non-native vegetation. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 24 in Appendix B. DP 25, included in Appendix B, is representative of the upland area surrounding Wetland 12. DP 25 possessed hydrophytic vegetation, but lacked the hydric soil indicators and hydrology indicators necessary to be considered a wetland.

5.1.15 Wetland 13-A

Wetland 13-A is a scrub shrub wetland located to the north of Wallen Road, approximately 0.09 mile north west of the intersection of Clinton Street and Wallen Road. Wetland 13-A was delineated for approximately 0.022 acre and extends north beyond the investigated area. Wetland 13-A is directly connected to Wetland 13-B (described below). Wetland 13-A is located in a low lying area within the floodplain of Swift Ditch. Wetland 13-A receives drainage from the surrounding landscape and is located within the active floodplain



of Swift Ditch. Wetland 13-A drains south to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 13-A would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 13-A consisted of eastern cottonwood (*Populus deltoides*) and black willow (*Salix nigra*) within the tree stratum; sandbar willow (*Salix interior*) within the sapling/shrub stratum; and narrow-leaf cattail (*Typha angustifolia*) and purple loosestrife (*Lythrum salicaria*) within the herbaceous stratum. Hydric soil indicators included Depleted Below Dark Surface (A11), Depleted Matrix (F3), and Redox Dark Surface (F6). Hydrologic indicators included Water Marks (B1), Algal Mat (B4), Water Stained Leaves (B9), True Aquatic Plants (B14), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 13-A would be considered a PSS1Ad under the Cowardin Classification System. The wetland is of poor quality as it exists in an excavated ditch and is dominated by invasive vegetation. For reference to field data collected for this wetland, see DP 26 in Appendix B. DP 27, included in Appendix B, is representative of the upland area surrounding Wetland 13-A. DP 27 possessed hydric soils, but lacked the hydrophytic vegetation and hydrology indicators to be considered a wetland.

5.1.16 Wetland 13-B

Wetland 13-B is an emergent wetland located to the north of Wallen Road, approximately 0.09 mile northwest of the intersection of Clinton Street and Wallen Road. Wetland 13-B was delineated for approximately 0.107 acre and extends north beyond the investigated area. Wetland 13-B is directly connected to Wetland 13-A and is representative of the emergent portion of the wetland. Wetland 13-B is located in a low lying area within the floodplain of Swift Ditch. Wetland 13-B receives drainage from the surrounding landscape and is inundated in a typical year by Swift Ditch. Wetland 13-B drains west to Wetland 13-A, which drains to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 13-B would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 13-B consisted of black willow (*Salix nigra*) and eastern cottonwood (*Populus deltoides*) within the tree stratum, sandbar willow (*Salix interior*) and eastern cottonwood (*Populus deltoides*) within the sapling/shrub stratum, and purple loosestrife (*Lythrum salicaria*) within the herbaceous stratum. Although the wetland included trees and saplings/shrubs this was not a dominant component of the absolute cover of the wetland. Hydric soil indicators included Redox Dark Surface (F6). Hydrology indicators included Saturation Visible on 2022 Aerial Photography (C9), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 13-B would be considered PEM1A under the Cowardin Classification System. The wetland is of poor quality as it is dominated by invasive species. For reference to field data collected for this wetland, see DP 28 in Appendix B. DP 29, included in Appendix B, is representative of the upland area surrounding Wetland 13-B. DP 29 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.17 Wetland 14-A

Wetland 14-A is an emergent wetland located to the north of Clinton Street, approximately 0.18 mile northeast of the intersection of Clinton Street and Wallen Road. Wetland 14-A consists of two emergent wetlands connected by a culvert beneath the gravel entrance to a utility station. Wetland 14-A is directly connected to Wetland 14-B (described below). Wetland 14-A was delineated for approximately 0.156 acre and is wholly contained within the investigated area. Wetland 14-A is located within a constructed roadside ditch, connected by a driveway culvert, and surrounding low-lying area and receives drainage from the roadway and surrounding landscape. Wetland 14-A drains northwest along topographic contours to Swift



Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 14-A would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 14-A included American elm (*Ulmus Americana*) within the sapling/shrub stratum and narrow-leaf cattail (*Typha angustifolia*) within the herbaceous stratum. Although the wetland included saplings/shrubs this was not a dominant component of the absolute cover of the wetland. Hydric soil indicators included Depleted Below Dark Surface (A11) and Depleted Matrix (F3). Hydrologic indicators included Water Stained Leaves (B9), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 14-A would be considered a PEM1Ad under the Cowardin Classification System. Wetland 14-A would be considered a poor quality wetland due to the dominance of non-native vegetation within the herbaceous stratum. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 30 within Appendix B. DP 31, included in Appendix B, is representative of the upland area surrounding Wetland 14-A. DP 31 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.18 Wetland 14-B

Wetland 14-B is a forested wetland located to the north of Clinton Street, approximately 0.2 mile northeast of the intersection of Clinton Street and Wallen Road. Wetland 14-B is directly connected to Wetland 14-A, and is representative of the forested portion of the wetland. Wetland 14-B was delineated for approximately 0.045 acre and is wholly contained within the investigated area. Wetland 14-B is located within a low lying forested area and receives drainage from the surrounding landscape. Wetland 14-B drains south to Wetland 14-A, which drains northwest along topographic contours to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 14-A would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 14-B consisted of American elm (*Ulmus Americana*) and eastern cottonwood (*Populus deltoides*) within the tree stratum, gray dogwood (*Cornus racemose*) within the sapling/shrub stratum, reed canary grass (*Phalaris arundinacea*) within the herbaceous stratum, and fox grape (*Vitis labrusca*) within the vine stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrologic indicators included Water Stained Leaves (B9), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 14-B would be considered a PFO1A under the Cowardin Classification System. The wetland is of poor quality due to the dominance of invasive species. For reference to field data collected for this wetland, see DP 32 within Appendix B. DP 31, included in Appendix B, is representative of the upland area surrounding Wetland 14-B. DP 31 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.19 Wetland 15

Wetland 15 is an emergent wetland located in the southwest quadrant of the crossing of Clinton Street and I-469. Wetland 15 was delineated for approximately 0.051 acre and extends west beyond the investigated area. Wetland 15 is located within a constructed roadside ditch and receives drainage from the roadway and surrounding landscape. Wetland 15 drains west through a roadside drainage system, along the south side of I-469, that drains to Swift Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 15 would be considered a jurisdictional Waters of the U.S.



Dominant vegetation within Wetland 15 consisted of barnyard grass (*Echinochloa crus-galli*) and narrow-leaf cattail (*Typha angustifolia*) within the herbaceous stratum. Hydric soil indicators included Depleted Matrix (F3). Hydrology indicators included Algal Mat (B4), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 15 would be considered PEM1Ad under the Cowardin Classification System. Wetland 15 would be considered a poor quality wetland due to the regular disturbance of vegetation from mowing. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 33 in Appendix B. DP 34, included in Appendix B, is representative of the upland area surrounding Wetland 15. DP 34 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.

5.1.20 Wetland 16

Wetland 16 is an emergent wetland located along the east side of Clinton Street at the crossing of Clinton Street by I-469. Wetland 16 was delineated for approximately 0.140 acre and is wholly contained within the investigated area. Wetland 16 is located within a constructed roadside ditch and receives drainage from the roadway and surrounding landscape. Wetland 16 drains east through a roadside drainage system, along the south side of I-469, which drains to Martin Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 16 would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 16 consisted of barnyard grass (*Echinochloa crus-galli*) and narrow-leaf cattail (*Typha angustifolia*) within the herbaceous stratum. Hydric soil indicators included Depleted Below Dark Surface (A11) and Depleted Matrix (F3). Hydrology indicators included Algal Mat (B4), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 16 would be considered PEM1Ad under the Cowardin Classification System. Wetland 16 would be considered a poor quality wetland due to the presence of a dominant non-native vegetation population and due to its position beneath an overpass which inhibits vegetation growth. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 35 in Appendix B. DP 36, included in Appendix B, is representative of the upland area surrounding Wetland 16. DP 36 possessed hydric soils, but lacked the hydrophytic vegetation and hydrology necessary to be considered a wetland.

5.1.21 Wetland 17

Wetland 17 is an emergent wetland located on the east side of Clinton Street, approximately 0.11 mile northeast of the crossing of Clinton Street by I-469. Wetland 17 was delineated for approximately 0.108 acre and is wholly contained within the investigated area. Wetland 17 is located in a constructed roadside ditch and surrounding low lying grassy area and receives drainage from the roadway and surrounding landscape. Wetland 17 drains southwest through a roadside drainage system which drains to Wetland 16, which drains east through a roadside drainage system to Martin Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 17 would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 17 consisted of eastern cottonwood (*Populus deltoides*) and black willow (*salix nigra*) within the sapling/shrub stratum and barnyard grass (*Echinochloa crus-galli*), fall panicum (*Panicum dichotomiflorum*), Devil's beggarticks (*Bidens frondosa*), common rush (*Juncus effuses*), and red clover (*Trifolium pratense*) within the herbaceous stratum. Hydric soil indicators included Redox Dark Surface (F6). Hydrologic indicators included Algal Mat (B4), Surface Soil Cracks (B6), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 17 would be considered a PEM1Ad under the Cowardin Classification System. Wetland 17 would be considered an average quality wetland due to the dominance of



native vegetation. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 37 in Appendix B. DP 38, included in Appendix B, is representative of the upland area surrounding Wetland 17. DP 38 possessed hydrophytic vegetation and hydric soils, but lacked the hydrology indicators necessary to be considered a wetland.

5.1.22 Wetland 18

Wetland 18 is an emergent wetland located on the south side of Clinton Street, approximately 0.09 mile northeast of the intersection of Clinton Street and Brooks Road. Wetland 18 was delineated for approximately 0.038 acre and is wholly contained within the investigated area. Wetland 18 is located in a low-lying area within an agricultural field and receives drainage from the adjacent roadway and agricultural landscape. Wetland also receives drainage from Wetland 19 (described below), which drains south to Wetland 18 through a small structure beneath Clinton Street. Wetland 18 drains generally east along topographic contours to Martin Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 18 would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 18 consisted of barnyard grass (*Echinochloa crus-galli*) and soybean (*Glycine max*) within the herbaceous stratum. Hydric soil indicators included Depleted Below Dark Surface (A11), Depleted Matrix (F3), and Redox Dark Surface (F6). Hydrologic indicators included Surface Soil Cracks (B6), Stunted or Stressed Plants (D1), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 18 would be considered Palustrine, Emergent, Persistent, Temporarily Flooded, Farmed (PEM1Af) under the Cowardin Classification System. Wetland 18 would be considered a poor quality wetland due to regular disturbance from farming practices. For reference to field data collected for this wetland, see DP 39 in Appendix B. DP 40, included in Appendix B, is representative of the upland area surrounding Wetland 18. DP 40 possessed hydric soils, but lacked the hydrophytic vegetation and hydrology indicators necessary to be considered a wetland.

5.1.23 Wetland 19

Wetland 19 is an emergent wetland located on the north side of Clinton Street, approximately 0.09 mile northeast of the intersection of Clinton Street and Brooks Road. Wetland 19 was delineated for approximately 0.010 acre and is wholly contained within the investigated area. Wetland 19 is located within a constructed roadside ditch and receives drainage from the roadway and surrounding landscape. Wetland 19 drains south, to Wetland 18 through a small structure beneath Clinton Street. Wetland 18 drains generally east along topographic contours to Martin Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 19 would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 19 consisted of barnyard grass (*Echinochloa crus-galli*) and tall fescue (*Schedonorus arundinaceus*) within the herbaceous stratum. Hydric soil indicators included Redox Dark Surface (F6). Hydrology indicators included Water Stained Leaves (B9) and Geomorphic Position (D2). Wetland 19 would be considered PEM1Ad under the Cowardin Classification System. Wetland 19 would be considered a poor quality wetland due to the regular disturbance of vegetation from mowing. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 41 in Appendix B. DP 42, included in Appendix B, is representative of the upland area surrounding Wetland 19. DP 42 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.



5.1.24 Wetland 20

Wetland 20 is a forested wetland located on the south side of Clinton Street, approximately 0.28 mile northeast of the intersection of Clinton Street and Brooks Road. Wetland 20 was delineated for approximately 0.176 acre and extends southeast beyond the investigated area. Wetland 20 is located in a low-lying forested area and receives drainage from the surrounding forested landscape. Wetland 20 drains generally east along topographic contours to Martin Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 20 would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 20 consisted of silver maple (*Acer saccharinum*) within the tree stratum, gray dogwood (*Cornus racemosa*), rough dogwood (*Cornus drummondi*), slippery elm (*Ulmus rubra*), and pin cherry (*Prunus pensylvanica*) within the sapling/shrub stratum, lance leaf aster (*Symphyotrichum lanceolatum*) within the herbaceous stratum, and poison ivy (*Toxicodendron radicans*) within the vine stratum. Hydric soil indicators consisted of Redox Dark Surface (F6). Hydrology indicators included Water Marks (B1), Inundation Visible on 2022 Aerial Imagery (B7), Water Stained Leaves (B9), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 20 would be considered a PFO1A under the Cowardin Classification System. The wetland is of average quality due to dominant native vegetation but is limited by past disturbance (likely from farming). For reference to field data collected for this wetland, see DP 43 in Appendix B. DP 44, included in Appendix B, is representative of the upland area surrounding Wetland 20. DP 44 possessed hydric soils, but lacked the hydrophytic vegetation and hydrology indicators necessary to be considered a wetland.

5.1.25 Wetland 21

Wetland 21 is an emergent wetland located on the south side of Clinton Street, approximately 0.1 mile southwest of the intersection of Clinton Street and Mayhew Road. Wetland 21 was delineated for approximately 0.029 acre is and is wholly contained within the investigated area. Wetland 21 is located within a constructed roadside ditch and receives drainage from the roadway and surrounding landscape. Wetland 21 drains southwest through a roadside drainage system to UNT 1 to Martin Ditch, which drains to Martin Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated that Wetland 21 would be considered a jurisdictional Waters of the U.S.

Dominant vegetation within Wetland 21 consisted of barnyard grass (*Echinochloa crus-galli*), shallow sedge (*Carex lurida*), and reed canary grass (*Phalaris arundinacea*) within the herbaceous stratum. Hydric soil indicators included Depleted Below Dark Surface (A11) and Depleted Matrix (F3). Hydrologic indicators included Surface Water at 1 inch (A1), High Water Table at the surface (A2), Saturation at the surface (A3), Geomorphic Position (D2), and FAC Neutral Test (D5). Wetland 21 would be considered a PEM1Ad under the Cowardin Classification System. Wetland 21 would be considered a poor quality wetland due to the presence of a dominant invasive vegetation. A continuous defined bed and bank or ordinary highwater mark was not observed during the site reconnaissance. For reference to field data collected for this wetland, see DP 45 in Appendix B. DP 46, included in Appendix B, is representative of the upland area surrounding Wetland 19. DP 46 did not possess the hydrophytic vegetation, hydric soil indicators, or hydrology indicators to be considered a wetland.



5.2 Drainage Features, Streams, and Other Potential "Waters of the U.S."

5.2.1 UNT 1 to Beckett's Run

UNT 1 to Beckett's Run begins within the project area approximately 0.03 mile northeast of the intersection of Clinton Street and Jacob's Creek Run. The stream flows north along a steep gradient for 159 feet before losing defined bed and bank and flowing into Wetland 5. The stream is not depicted on the Cedarville USGS 7.5 Minute Topographic Map. Stream Stats (https://water.usgs.gov/osw/streamstats/) does not depict UNT 1 to Beckett's Run, however, it was determined that the upstream drainage area of the stream was approximately 0.01 square mile. The stream is not a County Legal Drain. UNT 1 to Beckett's Run was not flowing during field investigation on September 20, 2022 and stream flow appears to be ephemeral. UNT 1 to Beckett's Run derives water from roadway drainage. UNT 1 drains to Wetland 5, which drains to UNT 3, which drains to Beckett's Run, which drains to St. Joseph River, a TNW. Therefore, it is anticipated UNT 1 to Beckett's Run would be considered a jurisdictional waters of the U.S.

UNT 1 to Beckett's Run flows north into Wetland 5 and is not crossed within the project area. A stream assessment was completed for the channel. The stream substrate was primarily sand with large amounts of gravel and silt. Minimal overhanging vegetation and in-stream cover was observed. The ordinary high water mark (OHWM) of UNT 1 to Beckett's Run at the assessment location was 4 feet wide by 0.4 feet deep. No water was observed within the stream bed during field reconnaissance. UNT 1 to Beckett's Run would be considered a poor quality stream due to minimal in-stream cover and a high channelization. UNT 1 to Beckett's Run would be classified as a Riverine, Streambed, Sand (RSB4) using the Cowardin Classification System. The Cowardin Classification System does not include a subsystem for ephemeral flow regimes.

A Headwater Habitat Evaluation (HHEI) was conducted for UNT 1 to Beckett's Run. The overall score for the 159 linear foot sampled reach was 33. The stream scored highest for substrate (18/40) and bank full width (15/30). The stream scored lowest for pool depth (0/30). UNT 1 to Beckett's Run would be considered a poor quality stream due to minimal in-stream cover and a high channelization. Please refer to HHEI 1 in Appendix C for more information regarding UNT 1 to Beckett's Run.

5.2.2 UNT 2 to Beckett's Run

UNT 2 to Beckett's Run enters the project area, approximately 0.07 mile northeast of the intersection of Clinton Street and Jacob's Creek Run. The stream flows west along a steep gradient for 78 feet before losing defined bed and bank and flowing into Wetland 5. The stream is not depicted on the Cedarville USGS 7.5 Minute Topographic Map. Stream Stats (https://water.usgs.gov/osw/streamstats/) does not depict UNT 2 to Beckett's Run, however, it was determined that the upstream drainage area of the stream was approximately 0.01 square mile. The stream is not a County Legal Drain. UNT 2 to Beckett's Run was not flowing during field investigation on September 20, 2022 and stream flow appears to be ephemeral. UNT 2 to Beckett's Run derives water from drainage from the surrounding forested and residential landscapes. UNT 2 drains to Wetland 5, which drains to UNT 3, which drains to Beckett's Run, which drains to St. Joseph River, a TNW. Therefore, it is anticipated UNT 2 to Beckett's Run would be considered a jurisdictional waters of the U.S.

UNT 2 to Beckett's Run flows west into Wetland 5 and is not crossed within the project area. A stream assessment was completed for the channel. The stream substrate consisted of only silt. Minimal overhanging vegetation and in-stream cover was observed. The OHWM of UNT 2 to Beckett's Run at the assessment



location was 1.5 feet wide by 0.4 feet deep. No water was observed within the stream bed during field reconnaissance. UNT 2 to Beckett's Run would be classified as a Riverine, Streambed, Mud (RSB5) using the Cowardin Classification System. The Cowardin Classification System does not include a subsystem for ephemeral flow regimes.

A Headwater Habitat Evaluation (HHEI) was conducted for UNT 2 to Beckett's Run. The overall score for the 78 linear foot sampled reach was 12. The stream scored highest for substrate (7/40) and bank full width (5/30). The stream scored lowest for pool depth (0/30). UNT 2 to Beckett's Run would be considered a very poor quality stream due to a poor substrate and lack of in-stream cover. Please refer to HHEI 2 in Appendix C for more information regarding UNT 2 to Beckett's Run.

5.2.3 UNT 3 to Beckett's Run

UNT 3 to Beckett's Run begins within the project area, approximately 0.09 mile northeast of the intersection of Clinton Street and Jacob's Creek Run, at the northern end of Wetland 5 where the gradient begins to steepen. The stream flows north along a steep gradient for 210 feet before converging with Beckett's Run. The stream is not depicted on the Cedarville USGS 7.5 Minute Topographic Map. Stream Stats (https://water.usgs.gov/osw/streamstats/) does not depict UNT 3 to Beckett's Run, however, it was determined that the upstream drainage area of the stream was approximately 0.02 square mile. The stream is not a County Legal Drain. UNT 3 to Beckett's Run was not flowing during field investigation on September 20, 2022 and stream flow appears to be ephemeral. UNT 3 to Beckett's Run derives water from drainage from UNT 1, UNT 2, and Wetland 5. UNT 3 drains to Beckett's Run, which drains to St. Joseph River, a TNW. Therefore, it is anticipated UNT 3 to Beckett's Run would be considered a jurisdictional waters of the U.S.

UNT 3 to Beckett's Run flows north into Beckett's Run and is not crossed within the project area. A stream assessment was completed for the channel. The stream substrate was primarily gravel and sand with small amounts of boulder, cobble, and silt. Minimal overhanging vegetation and in-stream cover was observed. The OHWM of UNT 3 to Beckett's Run at the assessment location was 4 feet wide by 0.4 feet deep. No water was observed within the stream bed during field reconnaissance. UNT 3 to Beckett's Run would be classified as a Riverine, Streambed, Cobble-Gravel (RSB3) using the Cowardin Classification System. The Cowardin Classification System does not include a subsystem for ephemeral flow regimes.

A Headwater Habitat Evaluation (HHEI) was conducted for UNT 3 to Beckett's Run. The overall score for the 200 linear foot sampled reach was 35. The stream scored highest for substrate (20/40) and bank full width (15/30). The stream scored lowest for pool depth (0/30). UNT 3 to Beckett's Run would be considered a poor quality stream due to lack of in-stream cover. Please refer to HHEI 3 in Appendix C for more information regarding UNT 3 to Beckett's Run.

5.2.4 Beckett's Run

Beckett's Run enters the investigated area approximately 0.11 mile north of the intersection of Clinton Street and Jacob's Creek Run. The stream flows east for approximately 345 feet before exiting the investigated area. The stream is depicted on the Cedarville USGS 7.5 Minute topographic quadrangle as a perennial stream (solid blue line). Stream Stats (https://water.usgs.gov/osw/streamstats/) reports the upstream drainage area of Beckett's Run is approximately 9.121 square miles. The stream is not a County Legal Drain. The stream was flowing during the September 20, 2022 site investigation and stream flow



appears to be perennial. Beckett's Run flows east out of the investigated and drains to the St. Joseph River, a TNW. Therefore, it is anticipated that Beckett's Run would be considered a jurisdictional Waters of the U.S.

Beckett's Run flows east under Clinton Street and is conveyed by National Bridge Inventory (NBI) No. 0200073. A stream assessment was completed outside of the zone of influence of the bridge. The stream substrate was primarily sand and silt with small amounts of boulder, cobble, and gravel. Macroinvertebrates and minnows were observed within the stream along with sparse amounts of overhanging vegetation and in-stream cover. The OHWM at the assessment location was 26.5 feet wide by 1.7 feet deep. Water depth was approximately 12 inches during the field investigation on September 20, 2022. Beckett's Run would be considered Riverine, Upper Perennial, Unconsolidated Bottom, Sand (R3UB2) using the Cowardin Classification System.

A Qualitative Habitat Evaluation (QHEI) was conducted for Beckett's Run. The overall score for the 200 linear foot sampled reach was 57. This is a Good narrative rating in the manual. The stream scored highest for substrate (11/20) and channel morphology (14/20). The stream scored lowest for pool quality (3/12) and riffle/run (5/8). The lack of instream cover and riffle/run/pool development within the investigated area limited the rating of the stream. Please refer to QHEI 1 in Appendix C for more information regarding Beckett's Run.

5.2.5 UNT 1 to St. Joseph River

UNT 1 to St. Joseph River begins within the project area at the outlet of a small structure that conveys drainage from west to east under Clinton Street, approximately 0.15 mile northeast of the intersection of Clinton Street and Swift Drive. The stream flows east for 87 feet before exiting the investigated area. The stream is not depicted on the Cedarville USGS 7.5 Minute Topographic Map. Stream Stats (https://water.usgs.gov/osw/streamstats/) does not depict UNT 1 to St. Joseph River, however, it was determined that the upstream drainage area of the stream was approximately 0.08 square mile. The stream is not a County Legal Drain. UNT 1 to St. Joseph River was flowing during field investigation on September 20, 2022 and stream flow appears to be intermittent. UNT 1 to St. Joseph River derives water from drainage from Clinton Street, conveyed by the unnumbered small structure. UNT 1 drains to St. Joseph River, a TNW. Therefore, it is anticipated UNT 1 to St. Joseph River would be considered a jurisdictional waters of the U.S.

UNT 1 to St. Joseph River flows east towards the St. Joseph River and is not crossed within the project area. A stream assessment was completed for the channel. The stream substrate was primarily gravel, silt, and sand with small amounts of cobble. Sparse overhanging vegetation and in-stream cover was observed. The OHWM of UNT 1 to St. Joseph River at the assessment location was 3.4 feet wide by 0.4 feet deep. Water depth was approximately 3 inches during the field investigation on September 20, 2022. UNT 1 to St Joseph River would be classified as a Riverine, Intermittent, Streambed, Cobble-Gravel (R4SB3) using the Cowardin Classification System.

A Headwater Habitat Evaluation (HHEI) was conducted for UNT 1 to St. Joseph River. The overall score for the 200 linear foot sampled reach was 59. The stream scored highest for substrate (19/40) and pool depth (25/30). The stream scored lowest for bank full width (15/30). UNT 1 to St. Joseph River would be considered a fair quality stream due to good riffle/run/pool development and a diverse substrate, but is limited by a lack of in-stream cover. Please refer to HHEI 4 in Appendix C for more information regarding UNT 1 to St. Joseph River.



5.2.6 Swift Ditch

Swift Ditch enters the project area approximately 0.12 mile northwest of the intersection of Clinton Street and Wallen Road. The stream flows southeast for approximately 466 feet before exiting the investigated area. Swift Ditch re-enters the investigated area approximately 0.09 acre southwest of the intersection of Clinton Street and Wallen Road and flows southeast for approximately 372 feet before exiting the investigated area. The stream is depicted on the Cedarville USGS 7.5 Minute topographic quadrangle as an intermittent stream (dashed blue line). Stream Stats (https://water.usgs.gov/osw/streamstats/) reports the upstream drainage area of Swift Ditch is approximately 1.269 square miles. The stream is listed as a County Legal Drain. The stream was flowing during the September 20, 2022 site investigation and stream flow appears to be intermittent. Swift Ditch flows southeast out of the investigated and drains to the St. Joseph River, a TNW. Therefore, it is anticipated that Swift Ditch would be considered a jurisdictional Waters of the U.S.

Swift Ditch flows south under Wallen Road and southeast under Clinton Street via two unnumbered structures. A stream assessment was completed outside of the zone of influence of the small structure. The stream substrate was primarily gravel with small amounts of sand and artificial substrate. Frogs were observed within the stream along with sparse amounts of overhanging vegetation and in-stream cover. The OHWM at the assessment location was 10.4 feet wide by 1.7 feet deep. Water depth was approximately 10 inches during the field investigation on September 20, 2022. Swift Ditch would be considered Riverine, Intermittent, Stream Bed, Cobble-Gravel (R4SB3) using the Cowardin Classification System.

A Qualitative Habitat Evaluation (QHEI) was conducted for Swift Ditch. The overall score for the 200 linear foot sampled reach was 50.5. This is a Fair narrative rating in the manual. The stream scored highest for substrate (15/20) and channel morphology (12/20). The stream scored lowest for pool quality (1/12) and riffle/run (5/8). High rates of erosion and the lack of riffle/run/pool development within the investigated area limited the rating of the stream. Please refer to QHEI 2 in Appendix C for more information regarding Swift Ditch.

5.2.7 Martin Ditch

Martin Ditch enters the project area approximately 0.34 mile southwest of the intersection of Clinton Street and Mayhew Road. The stream flows southeast for approximately 200 feet before exiting the investigated area. The stream is depicted on the Cedarville USGS 7.5 Minute topographic quadrangle as an intermittent stream (dashed blue line). Stream Stats (https://water.usgs.gov/osw/streamstats/) reports the upstream drainage area of Martin Ditch is approximately 1.09 square miles. The stream is not a County Legal Drain. The stream was flowing during the September 27, 2022 site investigation and stream flow appears to be intermittent. Martin Ditch flows southeast out of the investigated and drains to the St. Joseph River, a TNW. Therefore, it is anticipated that Martin Ditch would be considered a jurisdictional Waters of the U.S.

Martin Ditch flows southeast under Clinton Street and is conveyed by an unnumbered small structure. A stream assessment was completed outside of the zone of influence of the small structure. The stream substrate was primarily sand and muck with small amounts of gravel, cobble, and artificial substrate. Sparse amounts of overhanging vegetation and in-stream cover were observed. The OHWM at the assessment location was 12.3 feet wide by 1.2 feet deep. Water depth was approximately 11 inches during the field investigation on September 27, 2022. Martin Ditch would be considered Riverine, Intermittent, Stream Bed, Sand (R4SB4) using the Cowardin Classification System.



A Qualitative Habitat Evaluation (QHEI) was conducted for Martin Ditch. The overall score for the 200 linear foot sampled reach was 44. This is a Fair narrative rating in the manual. The stream scored highest for channel morphology (11/20) and substrate (9/20). The stream scored lowest for pool quality (1/12) and riffle/run (4/8). Sparse in-stream cover and the lack of riffle/run/pool development within the investigated area limited the rating of the stream. Please refer to QHEI 3 in Appendix C for more information regarding Martin Ditch.

5.2.8 UNT 1 to Martin Ditch

UNT 1 to Martin Ditch enters the project area, approximately 0.25 mile southwest of the intersection of Clinton Street and Mayhew Road. The stream flows south for approximately 191 feet before exiting the project area. The stream is not depicted on the Cedarville USGS 7.5 Minute Topographic Map. Stream Stats (https://water.usgs.gov/osw/streamstats/) reports the upstream drainage area of the stream was approximately 0.52 square mile. The stream is not a County Legal Drain. UNT 1 to Martin Ditch was flowing during field investigation on September 27, 2022 and stream flow appears to be intermittent. UNT 1 to Martin Ditch drains south to Martin Ditch, which drains to St. Joseph River, a TNW. Therefore, it is anticipated UNT 1 to Martin Ditch would be considered a jurisdictional waters of the U.S.

UNT 1 to Martin Ditch flows south under Clinton Street and is conveyed beneath the road via an unnumbered small structure. A stream assessment was completed outside of the zone of influence of the small structure. The stream substrate consisted of primarily sand and silt with small amounts of gravel, cobble, and boulder. Minimal overhanging vegetation and in-stream cover was observed. Aquatic macroinvertebrates were observed within the stream. The OHWM of UNT 1 to Martin Ditch at the assessment location was 6.6 feet wide by 0.9 feet deep. Water depth was approximately 10 inches during field reconnaissance. UNT 1 to Martin Ditch would be classified as a Riverine, Intermittent, Streambed, Sand (R4SB4) using the Cowardin Classification System.

A Headwater Habitat Evaluation (HHEI) was conducted for UNT 1 to Martin Ditch. The overall score for the 191 linear foot sampled reach was 60. The stream scored highest for bank full width (20/30) and pool depth (25/30). The stream scored lowest for substrate (15/40). UNT 1 to Martin Ditch would be considered a poor quality stream due to channelization and trash throughout the stream channel. Please refer to HHEI 5 in Appendix C for more information regarding UNT 1 to Martin Ditch.

5.2.9 Pond 1

Pond 1 is located approximately 0.05 mile south of the intersection of Clinton Street and Riveroak Drive. Pond 1 is approximately 0.30 acre and extends east beyond the investigated area. Pond 1 is drained to the south by a pipeline, which drains to an unnamed tributary (visible on aerial photography) which drains to the St. Joseph River, a TNW. Therefore, it is anticipated that Pond 1 would be considered a jurisdictional Waters of the U.S.

5.3 Other Features

Drainage along Clinton Street is conveyed by a network of roadside ditches. Unless otherwise noted, these roadside ditches were inspected and determined to lack defined bed and bank and continuous OHWM. Low points in this drainage system where water is subject to ponding were identified and delineated as wetlands (see section 5.1 above). Outside of the features identified in this report, these roadside drainage ditches are not presumed to be jurisdictional Waters of the U.S.



One erosional feature, Erosional Feature (EF) 1, was mapped at the western end of Wetland 11-A. EF 1 drains Wetland 11-A northeast for approximately 67 feet to Swift Ditch. This feature appeared to be formed as the gradient within a forested area increased towards Swift Ditch, causing drainage from Wetland 11-A to cut an erosional path to the stream. EF 1 lacked a defined bed and bank and continuous OHWM. Therefore, this feature is not presumed to be a jurisdictional water of the U.S.

5.4 Non-Wetland Data Points

DP 3 is a non-wetland data point taken due to the presence of hydrophytic vegetation within a roadside ditch. DP 3 possessed hydric soils, but lacked the dominant hydrophytic vegetation and hydrology indicators to be determined a wetland. For reference to field data collected for DP 3, see Appendix B.

6.0 Conclusions

Twenty-five (25) wetlands (Wetland 1 through 6, 7-A, 7-B, 8 through 10, 11-A, 11-B, 12, 13-A, 13-B, 14-A, 14-B, and 15 through 21) totaling 1.572 acres; 8 streams (Unnamed Tributary [UNT 1] through UNT 3 to Beckett's Run, Beckett's Run, Swift Ditch, UNT 1 to St. Joseph River, Martin Ditch, and UNT 1 to Martin Ditch) totaling 1,736 linear feet (0.448 acre); and one pond (Pond 1) totaling 0.30 acre, were delineated within the investigated area. All delineated features were found to drain to the St. Joseph River, a Traditional Navigable Waterway (TNW). Therefore, it is anticipated that all delineated resources would be considered jurisdictional Waters of the U.S.

All jurisdictional waters of the U.S. are under the regulatory authority of the USACE under Section 404 of the Clean Water Act. Every effort should be taken to avoid and minimize impacts to the waterway and wetlands. If impacts are necessary, then mitigation may be required. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgment based on the guidelines set forth by the USACE.

7.0 Acknowledgement

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

AUTHORS:

Joshua Iddings, Project Manager

jiddings@structurepoint.com

317-547-5580

American Structurepoint, Inc.

11/4/2022

Cameron Schuler, Environmental Specialist

cschuler@structurepoint.com

317-547-5580

American Structurepoint, Inc.



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Appendix A - Aquatic Resource Summary Tables

Table 1 – Data Points Summary

Data Points Summary								
Data	Photos	Lat/ Long	Water	Hydrophytic	Hydric	Wetland	Within a	
Point	Photos	Lat/ Long	Resource	Vegetation	Soils	Hydrology	Wetland	
1	5-7	41.145631,	Wetland 1	Yes	Yes	Yes	Yes	
1	5-7	-85.114637	vvetianu 1	163	163		163	
2	2-4	41.145614,	Upland of	No	No	No	No	
2	2-4	-85.114649	Wetland 1	NO	INO	INO	INO	
3	17-19	41.148174,	Non-	No	Yes	No	No	
3	17-19	-85.112960	wetland DP	NO	163	INO	INO	
4	27-29	41.150569,	Wetland 2	Yes	Yes	Yes	Yes	
4	27-29	-85.111878	vvetianu z	res	163	163	163	
			Upland of					
5	30-32	41.150616,	Wetland 2	Yes	No	No	No	
J	30-32	-85.111774	and	res				
			Wetland 3					
6	33-35	41.150587,	Wetland 3	Yes	Yes	Yes	Yes	
U		-85.111688	Wetland 3			163		
7	36-38	41.151143,	Wetland 4	Yes	Yes	Yes	Yes	
,		-85.111439	Wellanu 4	165	163			
8	39-41	41.151133,	Upland of	Yes	No	No	No	
8	33-41	-85.111345	Wetland 4	103	INO	INO	INO	
9	226-	41.150992,	Wetland 5	Yes	Yes	Yes	Yes	
	228	-85.110857	Wedana 3	103	163	103	103	
10	223-	41.151084,	Upland of	No	Yes	No	No	
10	225	-85.110853	Wetland 5	110	163	140	110	
11	45-47	41.151774,	Wetland 6	Yes	Yes	Yes	Yes	
11	75 77	-85.111096	Wetland	103	163	163	103	
12	48-50	41.151803,	Upland of	No	Yes	No	No	
12	48-50	-85.110927	Wetland 6	NO	163	INO	INO	
13	58-60	41.159389,	Wetland 7-	Yes	Yes	Voc. Voc	Yes	
13	30-00	-85.106565	А	163	163	Yes	163	
14	61-63	41.159621,	Wetland 7-	Yes	Yes	Voc	Yes	
14	01-02	-85.106426	В	162	162	Yes	162	

Data Point	Photos	Lat/ Long	Water Resource	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Within a Wetland
15	64-66	41.159679, -85.106278	Upland of Wetland 7- A, Wetland 7-B, and Wetland 8	No	No	No	No
16	67, 68	41.159708, -85.106191	Wetland 8	Yes	Yes	Yes	Yes
17	73-75	41.160518, -85.105740	Wetland 9	Yes	Yes	Yes	Yes
18	70-72	41.160495, -85.105766	Upland of Wetland 9	No	Yes	No	No
19	207- 209	41.161441, -85.104959	Wetland 10	Yes	Yes	Yes	Yes
20	204- 206	41.161485, -85.104980	Upland of Wetland 10	No	Yes	No	No
21	198- 200	41.162889, -85.103942	Wetland 11-A	Yes	Yes	Yes	Yes
22	195- 197	41.162902, -85.103999	Upland of Wetland 11-A and Wetland 11-B	No	No	No	No
23	192- 194	41.163019, -85.104004	Wetland 11-B	Yes	Yes	Yes	Yes
24	80-82	41.163120, -85.104295	Wetland 12	Yes	Yes	Yes	Yes
25	77-79	41.163091, -85.104325	Upland of Wetland 12	Yes	No	No	No
26	87-89	41.165107, -85.104219	Wetland 13-A	Yes	Yes	Yes	Yes
27	90-92	41.165099, -85.104159	Upland of 13-A	No	Yes	No	No
28	94-96	41.165099, -85.103410	Wetland 13-B	Yes	Yes	Yes	Yes

Data Point	Photos	Lat/ Long	Water Resource	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Within a Wetland
		44 465042	Upland of			, ,,	
29	97-99	41.165042,	Wetland	No	No	No	No
		-85.103419	13-B				
30	105,	41.166006,	Wetland	Yes	Yes	Yes	Yes
30	106	-85.099754	14-A	103	163	103	163
			Upland of				
31	102-	41.165980,	14-A and	No	No	No	No
31	104	-85.099783	Wetland	140	110	140	110
			14-B				
32	108-	41.166396,	Wetland	Yes	Yes	Yes	Yes
	110	-85.099361	14-B				
33	115-	41.167722,	Wetland 15	Yes	Yes	Yes	Yes
	117	-85.096445					
34	112-	41.167731,	Upland of	No	No	No	No
35	114	-85.096503	Wetland 15				
	180- 182	41.167820, -85.095853	Wetland 16	Yes	Yes	Yes	Yes
	183,	41.167833,	Upland of				
36	184	-85.095863	Wetland 16	No	Yes	No	No
	175-	41.169196,					
37	177	-85.093173	Wetland 17	Yes	Yes	Yes	Yes
	172-	41.169139,	Upland of				
38	174	-85.093108	Wetland 17	Yes	Yes	No	No
20	165-	41.172257,	W. I. 140		.,		
39	167	-85.087207	Wetland 18	Yes	Yes	Yes	Yes
40	168,	41.172418,	Upland of	No	Yes	No	No
40	169	-85.087003	Wetland 18	NO	165	INO	INO
41	124-	41.172620,	Wetland 19	Yes	Yes	Yes	Yes
71	126	-85.086968	wctiana 15	103	103	103	103
42	237-	41.172632,	Upland of	No	No	No	No
	239	-85.086993	Wetland 19				
43	157-	41.173806,	Wetland 20	Yes	Yes	Yes	Yes
	159	-85.083933			. 55		
44	160-	41.173751,	Upland of	No	Yes	No	No
74	162	-85.084039	Wetland 20			140	-

Data	Photos Lat/ Lo	Lat/ Long	Water	Hydrophytic	Hydric	Wetland	Within a
Point	Pilotos	Lat/ Long	Resource	Vegetation	Soils	Hydrology	Wetland
45	141-	41.177067,	Wetland 21	d 21 Yes	Yes	Yes	Yes
45	143	-85.077828	Wetland 21				
16	144,	41.177048,	Upland of	No	No	No	No
46	145	-85,077820	Wetland 21	NO	INO	INO	INO

Table 2 – Aquatic Resources Summary

Aquatic Resources Summary: Wetlands								
Delineated Resource	Photos	Lat/ Long	Туре	Quality	Likely Jurisdiction	Total Acreage		
Wetland 1	5, 7	41.145631, -85.114637	Emergent	Poor	Waters of the U.S.	0.051		
Wetland 2	27, 29	41.150569, -85.111878	Forested	Average	Waters of the U.S.	0.018		
Wetland 3	33, 35	41.150587, -85.111688	Forested	Average	Waters of the U.S.	0.034		
Wetland 4	tland 4 36, 38 41.151143, -85.111439 Emergent Ave		Average	Waters of the U.S.	0.058			
Wetland 5	226, 228-229	41.150992 <i>,</i> -85.110857	Emergent	Poor	Waters of the U.S.	0.211		
Wetland 6	45, 47	41.151774 <i>,</i> -85.111096	Forested	Average	Waters of the U.S.	0.042		
Wetland 7-A	58, 60	41.159389 <i>,</i> -85.106565	Emergent	Poor	Waters of the U.S.	0.097		
Wetland 7-B	61, 63	41.159621 <i>,</i> -85.106426	Scrub Shrub	Poor	Waters of the U.S.	0.030		
Wetland 8	68-69	41.159708 <i>,</i> -85.106191	Emergent	Poor	Waters of the U.S.	0.013		
Wetland 9	73, 75	41.160518, -85.105740	Emergent	Poor	Waters of the U.S.	0.030		
Wetland 10	207, 209	41.161441, -85.104959	Emergent	Poor	Waters of the U.S.	0.043		
Wetland 11-A	199-200	41.162889, -85.103942	Scrub Shrub	Poor	Waters of the U.S.	0.034		

Delineated Resource	Photos	Lat/ Long	Туре	Quality	Likely Jurisdiction	Total Acreage
Wetland 11-B	193-194	41.163019, -85.104004	Emergent	Poor	Waters of the U.S.	0.026
Wetland 12	80, 82	41.163120, -85.104295	Emergent	Poor	Waters of the U.S.	0.003
Wetland 13-A	87, 89	41.165107, -85.104219	Scrub Shrub	Poor	Waters of the U.S.	0.022
Wetland 13-B	93-94, 96	41.165099, -85.103410	Emergent	Poor	Waters of the U.S.	0.107
Wetland 14-A	106-107	41.166006, -85.099754	Emergent	Poor	Waters of the U.S.	0.156
Wetland 14-B	108, 110	41.166396, -85.099361	Forested	Poor	Waters of the U.S.	0.045
Wetland 15	115, 117	41.167722 <i>,</i> -85.096445	Emergent	Poor	Waters of the U.S.	0.051
Wetland 16	178-179, 181-182	41.167820, -85.095853	Emergent	Poor	Waters of the U.S.	0.140
Wetland 17	175, 177	41.169196, -85.093173	Emergent	Average	Waters of the U.S.	0.108
Wetland 18	165, 167	41.172257, -85.087207	Emergent	Poor	Waters of the U.S.	0.038
Wetland 19	123-124, 126	41.172620, -85.086968	Emergent	Poor	Waters of the U.S.	0.010
Wetland 20	157, 159	41.173806, -85.083933	Forested	Average	Waters of the U.S.	0.176
Wetland 21	141, 143	41.177067, -85.077828	Emergent	Poor	Waters of the U.S.	0.029
					Total	1.572 acre

			Aqı	uatic R	Resour	ces Sur	nmary: S	Streams				
Delineated Resource	Photos	Lat/ Long	USGS Blue Line & Type	OHWM Width	ОНWМ Depth	Flow Regime	Quality	Riffle/Run Presence	Substrate	Jurisdiction	Total Linear Feet	Total Acres
UNT 1 to Beckett's Run	231	41.150283, -85.11117	N/A	4	0.4	Eph	Poor	No	Sand	Waters of the U.S.	159	0.014
UNT 2 to Beckett's Run	230	41.150591, -85.110770	N/A	1.5	0.4	Eph	Very Poor	No	Mud	Waters of the U.S.	78	0.002
UNT 3 to Beckett's Run	220- 221	41.151427, -85.110665	N/A	4	0.4	Eph	Poor	No	Cobble/ Gravel	Waters of the U.S.	210	0.019
Beckett's Run	43-44, 219	41.151494, -85.110955	Solid Blue (Per.)	26.5	1.7	Per	Good	Yes	Sand	Waters of the U.S.	345	0.21
Swift Ditch	83, 85- 86 190- 191	41.164697, -85.104717	Dashed Blue (Int.)	10.4	1.7	Int	Fair	Yes	Cobble / Gravel	Waters of the U.S.	466	0.007
UNT 1 to St. Joseph River	212- 213	41.157859, -85.106770	N/A	3.4	0.4	Int	Fair	Yes	Cobble / Gravel	Waters of the U.S.	87	0.111

Delineated Resource	Photos	Lat/ Long	USGS Blue Line & Type	OHWM Width	OHWM Depth	Flow Regime	Quality	Riffle/Run Presence	Substrate	Jurisdiction	Total Linear Feet	Total Acres
Martin Ditch	131, 151- 152	41.175204, -85.081486	Dashed Blue (Int.)	12.3	1.2	Int	Fair	Yes	Sand	Waters of the U.S.	200	0.056
UNT 1 to Martin Ditch	147- 148	41.175789, -85.079988	N/A	6.6	0.9	Int	Poor	Yes	Sand	Waters of the U.S.	191	0.029
										Total	1736 lft	0.448 acre

	Aquatic Resources Summary: Ponds									
Delineated Resource	Photos	Lat/ Long	Туре	Quality	Likely Jurisdiction	Total Acreage				
Pond 1	111	41.159744, -85.105731	PUBHx	Average	Waters of the U.S.	0.300				
					Total	0.300 acre				

Aquatic Resources Su	Aquatic Resources Summary							
Resource	Wetlands	Streams	Ponds					
Grand Total	1.572 acre	1736 lft	0.300 acre					



Appendix B - Routine Wetland Determination Data Forms

Project/Site: Clinton Street Roadway Improvement Project	ect	City/Cour	nty: Fort Wa	yne/Allen	Samp	ling Date:	9/20/2	1022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: I	N Sampl	ling Point:	DF	P 1
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	nge: Section 18,	Township 31 I	N, Range 1	3 E	
Landform (hillside, terrace, etc.): Ditch		l	Local relief (c	oncave, convex, n	one): <u>Concave</u>	<u>e </u>		
Slope (%): 0.5 Lat: 41.145631		Long: <u>-</u> {	85.114637		Datum:	WGS_1984	1	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	slopes, eroc	ded (MrB2)		NWI o	classification:	N/A		
Are climatic / hydrologic conditions on the site typical for	r this time of	year?	Yes X	No (If n	io, explain in F	Remarks.)		
Are Vegetation, Soil, or Hydrologysi	ignificantly d	isturbed? A	are "Normal C	ircumstances" pre	esent? Yes	X No	·	i
Are Vegetation, Soil, or Hydrologyna	aturally prob	olematic? (I	If needed, exp	olain any answers	in Remarks.)			
SUMMARY OF FINDINGS – Attach site ma	p showin	g samplin	g point lo	cations, trans	ects, impo	rtant feat	tures,	etc.
Hydrophytic Vegetation Present? Yes X No		Is the	Sampled Ar	ea				
			n a Wetland?		X No			
Wetland Hydrology Present? Yes X No								
Remarks:								
DP 1 is representative of Wetland 1.								
VEGETATION – Use scientific names of plan	nts.							
	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30 ft	% Cover	Species?	Status	Dominance Tes	st worksheet:			
1. 2.				Number of Dom Are OBL, FACW		That	1	(A)
3.						- 200	' —	(^)
4.				Total Number of Across All Strata		ecies	1	(B)
5.				Percent of Domi	inant Species	That		` .
	=	Total Cover		Are OBL, FACW	•		0.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)			ŀ					
1.				Prevalence Ind			· Ia.,,	
2. 3.				Total % Co OBL species		Multiply x 1 =	75	
4.				FACW species			20	
5.				FAC species			0	
	=	Total Cover		FACU species			60	
Herb Stratum (Plot size: 5 ft)				UPL species	0	x 5 =	0	i
Typha angustifolia	75	Yes	OBL	Column Totals:		· —		(B)
2. Schedonorus arundinaceus	<u>15</u>	No	FACU	Prevalence Ir	ndex = B/A =	1.55	1	
3. Echinochloa crus-galli	5	No	FACW	11 Leave Installa Ma	t tien laati	• •		
4. <u>Carex vulpinoidea</u> 5.	5	<u>No</u>	FACW	Hydrophytic Ve	egetation Indi est for Hydropl		otion	
6.				X 2 - Dominar	, ,	, ,	ation	
7.				X 3 - Prevaler				
8.					ogical Adaptat		ide sup	porting
9.					emarks or on a	•		
10				Problematic	: Hydrophytic \	√egetation ¹	(Explai	in)
	100 =	Total Cover		¹ Indicators of hy				nust
Woody Vine Stratum (Plot size: 30 ft)				be present, unle	ess disturbed o	r problema	tic.	
1.				Hydrophytic				
2		Total Cover		Vegetation Present?	Yes X	No		
Remarks: (Include photo numbers here or on a separa		-10tal 0010.		F163611.	<u></u>			
Reflicits. (illolude prioto frambers fiere of on a separa	ile sileei.j							

Depth	Matrix			x Featur		5. 0	onfirm the absence of	···
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 4/2	98	10YR 4/4	2	С	М	Loamy/Clayey	Distinct redox concentrations
10-18	10YR 4/1	97	10YR 4/6	3	С	M	Loamy/Clayey	
¹ Type: C=C	oncentration, D=Depl	etion. RM	=Reduced Matrix. N	//S=Mas	ked San	d Grains	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil		· · · · · · · · · · · · · · · · · · ·	· ·					for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coast	Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy Red	dox (S5)			Iron-M	langanese Masses (F12)
Black Hi	stic (A3)		Stripped M	-	3)			arent Material (F21)
	en Sulfide (A4)		Dark Surfa					Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu	-			Other	(Explain in Remarks)
	ıck (A10)		Loamy Gle	-				
	d Below Dark Surface	(A11)	X Depleted N	-			3, ,,	
	ark Surface (A12)		Redox Da		, ,			of hydrophytic vegetation and
	Mucky Mineral (S1)	`	Depleted [Redox Depleted I		` ')		nd hydrology must be present,
	icky Peat or Peat (S3)	Nedox Del	016221011	5 (10)		unless	s disturbed or problematic.
Type:	Layer (if observed):							
Depth (ii	nches).						Hydric Soil Present?	? Yes X No
Remarks:								
HYDROLC	OGY							
Wetland Hy	drology Indicators:							
Primary Indi	cators (minimum of o	ne is requ	ired; check all that a	apply)			<u>Secondary</u>	/ Indicators (minimum of two require
Surface	Water (A1)		X Water-Sta	ned Lea	ives (B9)		Surfac	ce Soil Cracks (B6)
	ater Table (A2)		Aquatic Fa	•	•		Draina	age Patterns (B10)
Saturation			True Aqua		٠,			eason Water Table (C2)
	larks (B1)		Hydrogen			-		sh Burrows (C8)
	nt Deposits (B2)		Oxidized F			_		ation Visible on Aerial Imagery (C9)
	posits (B3)		Presence			` '		ed or Stressed Plants (D1)
	at or Crust (B4) posits (B5)		Recent Iro Thin Muck			lied Solls		orphic Position (D2) Neutral Test (D5)
	on Visible on Aerial Ir	nagery (R			` '		<u>X</u> 1 AC-1	vedital Test (D3)
	/ Vegetated Concave				` ,			
Field Obser		- Curiaco (Other (Exp		tomanto			
Surface Wat		S	No X	Depth (i	nches):			
Water Table					nches):			
Saturation P	resent? Yes	s		Depth (i	-		Wetland Hydrology	y Present? Yes X No
(includes ca	pillary fringe)				_			
Describe Re	corded Data (stream	gauge, m	onitoring well, aeria	l photos	, previou	s inspec	tions), if available:	
Remarks:								

US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Da	te: 9/20	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	o. Highway Do	epartment		State: IN	Sampling Poi	int:	OP 2
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	Γownship, Ra	ange: Section 18, Towr	ıship 31 N, Ran	ge 13 E	
Landform (hillside, terrace, etc.): Tillplain			Local relief (concave, convex, none):	Convex		
Slope (%): 3 Lat: 41.145614		Long: -	85.114649		Datum: WGS_	1984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 perce	nt slopes, erc	ded (MrB2)		NWI classi	fication: N/A		
Are climatic / hydrologic conditions on the site typical f	for this time o	f year?	Yes X	No (If no, ex	plain in Remark	s.)	
Are Vegetation , Soil , or Hydrology	significantly of				Yes X	No	
Are Vegetation , Soil , or Hydrology	<u>-</u> '						_
SUMMARY OF FINDINGS – Attach site m	<u>-</u> '					features	s, etc.
Hydrophytic Vegetation Present? Yes N	lo X	Is the	Sampled A	rea			
	lo X		n a Wetland		No X		
	lo X						
Remarks:		<u>I</u>			,		
DP 2 is representative of the upland area surrounding	g Wetland 1.						
VEGETATION – Use scientific names of pla							
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1.	70 00001	Ореской:	Otatus	Number of Dominant			
2.	·			Are OBL, FACW, or F	•	1	(A)
3.				Total Number of Dom	inant Species		_
4				Across All Strata:	· <u>-</u>	2	_(B)
5				Percent of Dominant	•		
Opening (Observe Observer (Distriction AF #	,	=Total Cover		Are OBL, FACW, or F	AC: _	50.0%	_ (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft 1.	.)			Prevalence Index we			-
2				Total % Cover of		tiply by:	
3.					0 x 1 =	0	_
4.					0 x 2 =	0	_
5.				FAC species 4	0 x 3 =	120	_
		=Total Cover		· —	60 x 4 = _	240	_
Herb Stratum (Plot size: 5 ft)				· · · —	0 x 5 = _	0	_
1. Schedonorus arundinaceus	50	Yes	FACU		00 (A) _	360	_(B)
2. Poa pratensis	40	Yes	FAC	Prevalence Index	= B/A =	3.60	_
Trifolium repens Taraxacum officinale	8 2	No No	FACU FACU	Hydrophytic Vegeta	tion Indicators		
5.		110	1700	1 - Rapid Test for			
6.				2 - Dominance To		2901411011	
7.				3 - Prevalence In			
8.				4 - Morphologica	l Adaptations ¹ (F	Provide su	pporting
9.				data in Remar	ks or on a separ	ate sheet))
10				Problematic Hydi	ophytic Vegetat	tion ¹ (Expl	ain)
	100	=Total Cover		¹ Indicators of hydric s			must
Woody Vine Stratum (Plot size: 30 ft	.)			be present, unless dis	sturbed or proble	ematic.	
1				Hydrophytic			
2		=Total Cover		Vegetation Present? Yes	No	×	
Domarka: (Include photo pumbare bare or an analysis		TOTAL COVE		11030111: 105			
Remarks: (Include photo numbers here or on a sepa	ırate sheet.)						

US Army Corps of Engineers

Midwest Region – Version 2.0

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 4/2	100					Loamy/Clayey	
8-10	10YR 4/4	90	10YR 4/1	10		M	Loamy/Clayey	
1								
	Concentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
•	Indicators:		Sandy Cla	wad Mat	riv (C1)			or Problematic Hydric Soils ³ :
Histoso			Sandy Gle Sandy Re	-	IIX (54)			rairie Redox (A16) nganese Masses (F12)
	pipedon (A2)		Stripped M	, ,	:\			` ,
	listic (A3) en Sulfide (A4)		Dark Surfa	-))			ent Material (F21) allow Dark Surface (F22)
	ed Layers (A5)		Loamy Mu		aral (E1)			xplain in Remarks)
	uck (A10)		Loamy Gle	-			Other (E	Apiaiii iii iteiriaiks)
	ed Below Dark Surface	(A11)	Depleted N	-				
 '	ark Surface (A12)	(,)	Redox Da	`	,		³ Indicators o	f hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted [, ,)		hydrology must be present,
	ucky Peat or Peat (S3)	Redox De		` '			isturbed or problematic.
Restrictive	Layer (if observed):		<u> </u>					
Type:	, , , , , , , , , , , , , , , , , , , ,							
Depth (Remarks: This data for	orm is revised from Mico://www.nrcs.usda.gov							Yes No X
Depth (Remarks: This data for Errata. (http://pubm.com/	orm is revised from Mic :://www.nrcs.usda.gov						NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://pubs.com/	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://pubm.com/defended) HYDROLO Wetland Hydrony	orm is revised from Mic o://www.nrcs.usda.gov OGY ydrology Indicators:	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicators of	Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http://pub.com/ HYDROLO Wetland Hy Primary Index	orm is revised from Micoci//www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicators of) Secondary I	Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind. Surface	orm is revised from Mico://www.nrcs.usda.gov	/Internet/F	ired; check all that a	/nrcs142 apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of) Secondary II Surface	Hydric Soils, Version 7.0, 2015 ndicators (minimum of two require Soil Cracks (B6)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W	OGY ydrology Indicators: icators (minimum of or Water (A1) ater Table (A2)	/Internet/F	ired; check all that a	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of) Secondary II Surface Drainage	Hydric Soils, Version 7.0, 2015 adicators (minimum of two require Soil Cracks (B6) Patterns (B10)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat	OGY ydrology Indicators: icators (minimum of or Water (A1) ater Table (A2) ion (A3)	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicators of) Secondary II Surface Drainage Dry-Sea	Hydric Soils, Version 7.0, 2015 Indicators (minimum of two require Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M	OGY OGY Odd of the control of the	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Odor (C1)	Secondary II Surface Drainage Dry-Sea Crayfish	Hydric Soils, Version 7.0, 2015 Indicators (minimum of two require Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)
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US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ect	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Da	ite: 9/20/	/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	epartment		State: IN	Sampling Po	int:	OP 3
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	Township, Ra	ange: Section 18, Towr	ıship 31 N, Ran	ge 13 E	
Landform (hillside, terrace, etc.): Tillplain		1	Local relief (concave, convex, none):	Concave		
Slope (%): 0.5 Lat: 41.148174		Long:	85.112960		Datum: WGS_	1984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percen	t slopes, ero	ded (MrB2)		NWI classi	fication: N/A		
Are climatic / hydrologic conditions on the site typical fo	r this time of	f year?	Yes X	No (If no, ex	plain in Remark	s.)	
Are Vegetation , Soil , or Hydrology s	ignificantly o	disturbed? A	Are "Normal (Circumstances" present?	Yes X	No	
Are Vegetation , Soil , or Hydrology r	aturally prob	olematic? (If needed, ex	xplain any answers in Re	emarks.)		_
SUMMARY OF FINDINGS – Attach site ma	ıp showin	ıg samplin	g point lo	cations, transects	, important	features	s, etc.
Hydrophytic Vegetation Present? Yes No	X	Is the	Sampled A	rea			
			n a Wetland		No X		
Wetland Hydrology Present? Yes No	X						
Remarks:							
DP 3 was taken due to the precense of hydrophytic ve	getation with	nin a roadside	e ditch.				
VEGETATION – Use scientific names of plan		D i t	In all a stand	T			
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1				Number of Dominant	Species That		
2.				Are OBL, FACW, or F	•	1	(A)
3				Total Number of Dom	inant Species		
4				Across All Strata:	_	2	_(B)
5		Total Cover		Percent of Dominant Are OBL, FACW, or F	•	50.0%	(A/B)
<u>Sapling/Shrub Stratum</u> (Plot size: 15 ft)		- Total Cover		Ale OBL, I AGW, OI I	<u> </u>	30.070	_(^(D)
1.				Prevalence Index we	orksheet:		
2.				Total % Cover o	f: Mul	Itiply by:	_
3				OBL species 3	86 x 1 = _	36	_
4				· · ·	0 x 2 = _	0	_
5		T-1-1-0			4 x 3 = _	12	_
<u>Herb Stratum</u> (Plot size: 5 ft)		=Total Cover		· -	0 x4= 0 x5=	240 0	_
Schedonorus arundinaceus	60	Yes	FACU		00 (A)	288	(B)
Scirpus pendulus	36	Yes	OBL	Prevalence Index	`	2.88	_(_/
3. Rumex crispus	2	No	FAC				_
4. Vernonia gigantea	2	No	FAC	Hydrophytic Vegeta	tion Indicators	:	
5				1 - Rapid Test for	Hydrophytic Ve	egetation	
6				2 - Dominance To			
7				3 - Prevalence In			
8.				4 - Morphologica data in Remark	l Adaptations ˈ (lɨ ks or on a sepai		
9 10				Problematic Hydi	•		
10	100	=Total Cover		¹ Indicators of hydric s			-
Woody Vine Stratum (Plot size: 30 ft)				be present, unless dis			must
1				Hydrophytic			
2.				Vegetation			
		=Total Cover		Present? Yes	No_	<u>X</u>	
Remarks: (Include photo numbers here or on a separate	ate sheet.)						

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	100	, , , ,				Loamy/Clayey	
6-18	10YR 5/1	95	10YR 5/6	5	D	M	Loamy/Clayey	
0.0								
								
	<u> </u>							
	Concentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
•	I Indicators:							or Problematic Hydric Soils ³ :
Histoso			Sandy Gle	-				rairie Redox (A16)
	pipedon (A2)		Sandy Red	, ,				nganese Masses (F12)
	listic (A3)		Stripped M	-	ō)			ent Material (F21)
<u> </u>	en Sulfide (A4)		Dark Surfa		1.754			allow Dark Surface (F22)
	d Layers (A5)		Loamy Mu	-			Other (E	xplain in Remarks)
	uck (A10)	(444)	Loamy Gle	-				
	ed Below Dark Surface eark Surface (A12)	(A11)	X Depleted N				3Indicators o	f budranhutia vagatatian and
	Mucky Mineral (S1)		Redox Da		` '			f hydrophytic vegetation and hydrology must be present,
	ucky Peat or Peat (S3	١	Redox De		` ′	,		isturbed or problematic.
		,	Nedox De	016331011	3 (1 0)		uness c	istarbed of problematic.
Restrictive	Layer (if observed):							
T								
Type:	inches).						Hydric Soil Present?	Yes X No
Depth (Remarks: This data for	orm is revised from Mic							Yes X No
Depth (Remarks: This data for	orm is revised from Mic						NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://pubm.com/	orm is revised from Mic :://www.nrcs.usda.gov.						NRCS Field Indicators of	
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Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W	orm is revised from Mico://www.nrcs.usda.gov/	/Internet/F	ired; check all that a	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of) Secondary II Surface Drainag	Hydric Soils, Version 7.0, 2015 ndicators (minimum of two required Soil Cracks (B6)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat	OGY ydrology Indicators: icators (minimum of or Water (A1) ater Table (A2)	/Internet/F	ired; check all that a	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicators of) Secondary II Surface Drainag Dry-Sea	Hydric Soils, Version 7.0, 2015 Indicators (minimum of two required Soil Cracks (B6) Patterns (B10)
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Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Sparsel	orm is revised from Mico://www.nrcs.usda.gov/ DGY ydrology Indicators: icators (minimum of ore water (A1) ater Table (A2) ion (A3) Marks (B1) ant Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aerial In by Vegetated Concave	/Internet/F	ired; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Facent Iro Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (ction in Tiel (C7) a (D9)) Living Ro (C4) Illed Soils	Secondary II Surface Drainage Dry-Sea Crayfish oots (C3) Stunted Geomor	Hydric Soils, Version 7.0, 2015 Indicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Phic Position (D2)
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US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Date	e: <u>9/20/</u>	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	Sampling Poir	nt: <u>C</u>	OP 4
Investigator(s): Leigh Stevenson and Cameron Schule	r	Section, T	ownship, Ra	ange: Section 07, Town	ship 31 N, Rang	e 13 E	
Landform (hillside, terrace, etc.): Tillplain		I	Local relief (d	concave, convex, none):	Concave		
Slope (%):0 Lat: 41.150569		Long:	85.111878		Datum: WGS_1	984	
Soil Map Unit Name: Morley silty clay loam, 6 to 12 pe	ercent slopes	, severely ero	ded (MsC3)	NWI classi	fication: N/A		
Are climatic / hydrologic conditions on the site typical for	or this time of	f year?	Yes X	No (If no, exp	olain in Remarks	.)	
Are Vegetation , Soil , or Hydrology	significantly o	disturbed? A	re "Normal (Circumstances" present?	Yes X	No	
Are Vegetation , Soil , or Hydrology	naturally prob	olematic? (If needed, ex	plain any answers in Re	marks.)		_
SUMMARY OF FINDINGS - Attach site m	ap showin	ıg samplin	g point lo	cations, transects	, important f	eatures	, etc.
Hydrophytic Vegetation Present? Yes X N	0	Is the	Sampled A	rea			
	0		n a Wetland		No		
Wetland Hydrology Present? Yes X N	o <u> </u>						
Remarks:							
DP 4 is representative of Wetland 2.							
VEGETATION – Use scientific names of pla	Absolute	Dameirant	la dia atau	T			
Tree Stratum (Plot size: 30 ft)	% Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1. Ulmus americana	30	Yes	FACW	Number of Dominant			
2. Platanus occidentalis	30	Yes	FACW	Are OBL, FACW, or F	•	4	(A)
3				Total Number of Dom	inant Species		
4				Across All Strata:	_	4	_(B)
5				Percent of Dominant	•	100.00/	(4.15)
Capling/Chrub Ctratum /Dlataire, 45 ft	, 60 :	=Total Cover		Are OBL, FACW, or F	AC:	100.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft) 5	Yes	FAC	Prevalence Index wo			
2. Lindera benzoin	3	Yes	FACW	Total % Cover of		iply by:	
3.				-	x 1 =	0	_
4.					5 x 2 =	130	_
5.				FAC species 6	6 x 3 =	18	_
	8	=Total Cover		FACU species 2	2 x 4 =	8	_
Herb Stratum (Plot size: 5 ft)				· —	x 5 =	0	_
1. Fraxinus pennsylvanica	2	No	FACW		3 (A)	156	_(B)
2. Persicaria virginiana	1	No	FAC	Prevalence Index	= B/A =2	2.14	_
3. 4.				Hydrophytic Vegeta	tion Indicators:		
5.				1 - Rapid Test for			
6.				X 2 - Dominance Te		9010111011	
7.				X 3 - Prevalence In			
8.				4 - Morphological	Adaptations ¹ (P	rovide su	pporting
9.				data in Remark	ks or on a separa	ate sheet)	1
10				Problematic Hydr	ophytic Vegetati	on¹ (Expla	ain)
W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 :	=Total Cover		¹ Indicators of hydric s			must
Woody Vine Stratum (Plot size: 30 ft)	No	EACL	be present, unless dis	turbed or proble	matic.	
1. Vitis labrusca 2.	2	No	FACU	Hydrophytic			
<u></u>	2	Total Cover		Vegetation Present? Yes	X No		
Remarks: (Include photo numbers here or on a sepa				1			
remaine. (include priote fidilibers field of off a sepa	1410 311061.)						

Depth	Loamy/Clayey Loamy/Clayey Loamy/Clayey ins. Loamy/Clayey loam
0-3 10YR 2/1 100 3-10 10YR 4/1 95 10YR 4/4 5 C M 10-18 10YR 4/1 90 10YR 4/6 10 C M **Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grain Mydric Soil Indicators: **History Gil Indicators:** **History History Gil Indicators:** **History Gil I	Loamy/Clayey Loamy/Clayey Loamy/Clayey ins. Loamy/Clayey loam
3-10 10YR 4/1 95 10YR 4/4 5 C M 10-18 10YR 4/1 90 10YR 4/6 10 C M Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grain Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Loamy/Clayey Loamy/Clayey ins. Loamy/Clayey ins. Loamy/Clayey ins. Loamy/Clayey ins. Loamy/Clayey ins. Loamy/Clayey ins. Loamy/Clayey Loamy/Clayey ins. Loamy/Clayey Loamy/Clayey Ins. Loamy/Clayey Loamy/Loamy/Clayey Loamy/Lo
10-18 10YR 4/1 90 10YR 4/6 10 C M 1Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grain Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	ins. 2Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grain Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) Z Depleted Matrix (F3)	ins. 2Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Comp Mucky Mineral (F1) Comp Mucky Mineral (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Comp Mucky Mineral (F1) Comp Mucky Mineral (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) Z cm Muck (A10) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) Z cm Muck (A10) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Comp Mucky Mineral (F1) Comp Mucky Mineral (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Surface (A11) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)	Iron-Manganese Masses (F12) Red Parent Material (F21) Very Shallow Dark Surface (F22)
Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) Z cm Muck (A10) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Red Parent Material (F21) Very Shallow Dark Surface (F22)
Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Dark Surface (S7) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Very Shallow Dark Surface (F22)
Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3)	
2 cm Muck (A10) Loamy Gleyed Matrix (F2) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Other (Explain in Pemarks)
X Depleted Below Dark Surface (A11) X Depleted Matrix (F3)	Other (Explain in Remarks)
	
	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3) Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes X No
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1)Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living	Crayfish Burrows (C8) 9 Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	
Iron Deposits (B5) Thin Muck Surface (C7)	X FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
X Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
	-
Water Table Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
· · · /	
Saturation Present? Yes No X Depth (inches):	pections), if available:
Saturation Present? Yes No X Depth (inches):	pections), if available:
Saturation Present? Yes No X Depth (inches):	pections), if available:

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ject	City/Cour	nty: Fort Wa	yne/Allen Sa	mpling Date: 9/20/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	. Highway De	partment		State: IN Sa	mpling Point: DP 5
Investigator(s): Leigh Stevenson and Cameron Schuler	,	Section, T	ownship, Ra	nge: Section 07, Township	31 N, Range 13 E
Landform (hillside, terrace, etc.): Tillplain		!	Local relief (c	concave, convex, none): Conv	/ex
Slope (%): 0.5 Lat: 41.150616					m: WGS_1984
Soil Map Unit Name: Morley silty clay loam, 6 to 12 pe	rcent slopes				on: N/A
Are climatic / hydrologic conditions on the site typical fo	•			No (If no, explain i	
Are Vegetation , Soil , or Hydrology s				<u> </u>	
Are Vegetation, Soil, or Hydrologyr					
SUMMARY OF FINDINGS – Attach site ma					
Hydrophytic Vegetation Present? Yes X No)	Is the	Sampled A	rea	
	X		n a Wetland?		No X
	<u> </u>				
Remarks: DP 5 is representative of the upland area surrounding	Wetland 2 a	nd Wetland 3	i.		
VEGETATION – Use scientific names of plan	nts.				
T Ctratum (Diataira: 30 ft)	Absolute	Dominant Species?	Indicator	Daminanaa Tast workshi	4.
Tree Stratum (Plot size: 30 ft) 1. Populus deltoides	% Cover 25	Species? Yes	Status FAC	Dominance Test workshe	
2. Ulmus americana	20	Yes	FACW	Number of Dominant Speci Are OBL, FACW, or FAC:	ies That 5 (A)
3. Acer saccharum	10	No	FACU		, ,
4. Cercis canadensis	5	No	FACU	Total Number of Dominant Across All Strata:	Species 8 (B)
5.				Percent of Dominant Speci	
	60 =	=Total Cover		Are OBL, FACW, or FAC:	62.5%(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft))				
Asimina triloba	30	Yes	FAC	Prevalence Index worksh	ieet:
2. Cercis canadensis	15	Yes	FACU	Total % Cover of:	Multiply by:
3. Lonicera tatarica	5	No	FACU	OBL species 0	x 1 =0
4. Lindera benzoin	5	No	FACW	FACW species 31	x 2 = 62
5. Fraxinus pennsylvanica	2	No	FACW	FAC species 70	x 3 = 210
	57 =	=Total Cover		FACU species 66	x 4 = <u>264</u>
Herb Stratum (Plot size: 5 ft)		3.5	=	UPL species 0	x = 0
1. Asarum canadense	25	Yes	FACU	Column Totals: 167	(A) <u>536</u> (B)
2. Sanicula odorata	10	Yes	FAC	Prevalence Index = B/A	A = 3.21
3. Fraxinus pennsylvanica	2	No No	FACW	United the Managerian I	
Verbesina alternifolia Symphyotrichum loteriflorum	1	No No	FACW	Hydrophytic Vegetation I	
Symphyotrichum lateriflorum Polygonatum biflorum	1	No No	FACU FACU	1 - Rapid Test for Hydr X 2 - Dominance Test is	
	1	INU	FACU	3 - Prevalence Index is	
7. 8.					ร ⊆3.บ ptations¹ (Provide supportino
					on a separate sheet)
10.					tic Vegetation ¹ (Explain)
10	40 =	=Total Cover		¹ Indicators of hydric soil an	
Woody Vine Stratum (Plot size: 30 ft)				be present, unless disturbe	
1. Toxicodendron radicans	5	Yes	FAC	·	
2. Parthenocissus quinquefolia	5	Yes	FACU	Hydrophytic Vegetation	
	10 =	Total Cover		Present? Yes X	No
Remarks: (Include photo numbers here or on a separa	ate sheet.)			<u>-</u>	<u> </u>
	,				

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/1	100					Loamy/Clayey	
5-18	10YR 5/3	95	10YR 5/6	5	С	М	Loamy/Clayey	
1								
	Concentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		L=Pore Lining, M=Matrix.
•	I Indicators:		Candy Cla	vad Mat	riv (C4)			or Problematic Hydric Soils ³ :
Histoso			Sandy Gle Sandy Red	-				rairie Redox (A16) nganese Masses (F12)
	Epipedon (A2)		Stripped M	, ,				` ,
	listic (A3) en Sulfide (A4)		Dark Surfa))			ent Material (F21) allow Dark Surface (F22)
	ed Layers (A5)		Loamy Mu	, ,	oral (E1)			explain in Remarks)
	uck (A10)		Loamy Gle	-			Other (L	Apiain in Nemarks)
	ed Below Dark Surface	(A11)	Depleted N	•	• •			
	Park Surface (A12)	(/ () /)	Redox Dai	`	,		³ Indicators o	f hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted [, ,)		hydrology must be present,
<u> </u>	ucky Peat or Peat (S3)	Redox De		` '	,		listurbed or problematic.
Restrictive	Layer (if observed):							
Type:	,							
Depth (Remarks: This data fo	orm is revised from Mic o://www.nrcs.usda.gov							Yes No X
Depth (Remarks: This data fo Errata. (http	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://dx.com/	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://doi.org/10.1011/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10111/10.10	orm is revised from Mic o://www.nrcs.usda.gov OGY ydrology Indicators:	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicators of	Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http://proceedings.com/ HYDROLO Wetland Hyprimary Indianary Indian	orm is revised from Micocy//www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicators of) Secondary I	Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http://procedure.com/ HYDROLO Wetland Hy Primary Ind. Surface.	orm is revised from Mico://www.nrcs.usda.gov OGY ydrology Indicators: licators (minimum of ore Water (A1)	/Internet/F	ired; check all that a	/nrcs142 apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of) Secondary I Surface	Hydric Soils, Version 7.0, 2015 ndicators (minimum of two require Soil Cracks (B6)
Depth (Remarks: This data for Errata. (http://procedure.com/ HYDROLO Wetland Hyerimary Indexage Burface High W	OGY ydrology Indicators: licators (minimum of or Water (A1) later Table (A2)	/Internet/F	ired; check all that a Water-Stai Aquatic Fa	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of) Secondary I Surface Drainag	Hydric Soils, Version 7.0, 2015 Indicators (minimum of two require Soil Cracks (B6) Patterns (B10)
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US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	ject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Da	ate: 9/20	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	Sampling Po	oint: [OP 6
Investigator(s): Leigh Stevenson and Cameron Schuler	•	Section, T	ownship, Ra	nge: Section 07, T	ownship 31 N, Rar	nge 13 E	
Landform (hillside, terrace, etc.): Tillplain			Local relief (concave, convex, no	ne): Concave		
Slope (%): 0.5 Lat: 41.150587		Long:	85.111688		Datum: WGS_	1984	
Soil Map Unit Name: Morley silty clay loam, 6 to 12 pe	ercent slopes						
Are climatic / hydrologic conditions on the site typical for	or this time o	f year?	Yes X	No (If no	, explain in Remarl	(s.)	
Are Vegetation, Soil, or Hydrology	significantly o	disturbed? A	re "Normal (Circumstances" pres	ent? Yes X	No	
Are Vegetation, Soil, or Hydrology							_
SUMMARY OF FINDINGS – Attach site ma						features	s, etc.
Hydrophytic Vegetation Present? Yes X No)	Is the	Sampled A	rea			
			n a Wetland		X No		
Wetland Hydrology Present? Yes X No	<u> </u>						
Remarks:							
DP 6 is representative of Wetland 3.							
VEGETATION – Use scientific names of pla		D	la di este a	T			
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	worksheet:		
1. Ulmus americana	20	Yes	FACW	Number of Domin	ant Species That		
2. Populus deltoides	15	Yes	FAC	Are OBL, FACW,	•	6	(A)
3				Total Number of [Dominant Species		
4				Across All Strata:	-	6	_(B)
5				Percent of Domin	•	100.00/	(A (D)
Canling/Chrub Ctratum / Diat size 45 ft	35	=Total Cover		Are OBL, FACW,	or FAC:	100.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft) 10	Yes	FACW	Prevalence Index	v workshoot:		
Lindera benzoin	3	Yes	FACW	Total % Cove		ıltiply by:	
3. Ulmus americana	1	No	FACW	OBL species	0 x 1 =	0	_
4. Viburnum acerifolium	1	No	UPL	FACW species	36 x 2 =	72	_
5.				FAC species	20 x 3 =	60	_
	15	=Total Cover		FACU species	0 x 4 =	0	_
Herb Stratum (Plot size: 5 ft)				UPL species	1 x 5 =	5	
1. Toxicodendron radicans	5	Yes	FAC	Column Totals:	57 (A)	137	_(B)
Solidago gigantea 3.	2	Yes	FACW	Prevalence Ind	ex = B/A =	2.40	_
				Hydrophytic Veg	etation Indicators		
5.					t for Hydrophytic V		
6.	·			X 2 - Dominanc		· ·	
7.				X 3 - Prevalenc	e Index is ≤3.0 ¹		
8					gical Adaptations¹ (
9					marks or on a sepa	,	
10				Problematic H	Hydrophytic Vegeta	tion¹ (Expl	ain)
Woody Vino Stratum (Dlat size: 20 ft	7	=Total Cover			ric soil and wetland		must
Woody Vine Stratum (Plot size: 30 ft 1.)				s disturbed or prob	ematic.	
1 2.				Hydrophytic Vegetation			
		Total Cover		_	res X No		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			L			
, p	,						

US Army Corps of Engineers

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Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/1	100	, , ,				Loamy/Clayey	
6-18	10YR 4/1	95	10YR 4/6	5	С	M	Loamy/Clayey	
0.0				<u> </u>				
		 -						
		 -						
	Concentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
•	Indicators:		0 1 01		. (0.1)			for Problematic Hydric Soils ³ :
Histoso			Sandy Gle	-				Prairie Redox (A16)
	pipedon (A2)		Sandy Red	, ,				anganese Masses (F12)
	istic (A3)		Stripped M	-	5)			arent Material (F21)
	en Sulfide (A4)		Dark Surfa		L (- 1)			hallow Dark Surface (F22)
	d Layers (A5) uck (A10)		Loamy Mu	-			Otner (Explain in Remarks)
	d Below Dark Surface	(111)	Loamy Gle X Depleted I	-				
	ark Surface (A12)	(A11)	Redox Da				³ Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted [` ')		d hydrology must be present,
	ucky Peat or Peat (S3)	Redox De		` ′	,		disturbed or problematic.
	Layer (if observed):	,			(- /			·
	Layer (ii observea).							
	<u> </u>							Yes X No of Hydric Soils, Version 7.0, 2015
Depth (i Remarks: This data fo Errata. (http	rm is revised from Mic ://www.nrcs.usda.gov						NRCS Field Indicators of	<u> </u>
Depth (i Remarks: This data fo Errata. (http	rm is revised from Mic ://www.nrcs.usda.gov						NRCS Field Indicators of	<u> </u>
Depth (i Remarks: This data fo Errata. (http	rm is revised from Mic ://www.nrcs.usda.gov						NRCS Field Indicators of	<u> </u>
Depth (in Remarks: This data for Errata. (http://www.http.//www.ht	rm is revised from Mic ://www.nrcs.usda.gov OGY rdrology Indicators: icators (minimum of o	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicators of the secondary	of Hydric Soils, Version 7.0, 2015
Depth (i Remarks: This data fo Errata. (http: HYDROLO Wetland Hy Primary Ind Surface	rm is revised from Mic ://www.nrcs.usda.gov DGY rdrology Indicators: icators (minimum of or Water (A1)	/Internet/F	SE_DOCUMENTS	/nrcs142 apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of Secondary Secondary Surface	Indicators (minimum of two required
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W:	prm is revised from Mice.://www.nrcs.usda.gov	/Internet/F	ired; check all that a Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of Secondary Surface Drainage	Indicators (minimum of two required e Soil Cracks (B6)
Depth (i Remarks: This data fo Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water Saturati	prm is revised from Mice.://www.nrcs.usda.gov	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicators of Secondary Surface Drainag	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water N	orm is revised from Mic ://www.nrcs.usda.gov OGY rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) farks (B1)	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14) Odor (C1)	Secondary Surface Drainae Crayfis	Indicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water M Sedime	prm is revised from Mic ://www.nrcs.usda.gov prdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2)	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Ro	Secondary Surface Drainae Dry-Se Crayfis oots (C3) Secondary Surface Crayfis	Indicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water Now Sedime X Drift De	prm is revised from Mice.://www.nrcs.usda.gov	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 leres on l) Living Rc	Secondary Surface Drainag Dry-Se Crayfis oots (C3) Satural	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water M Sedime X Drift De Algal M	prm is revised from Mice://www.nrcs.usda.gov	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on led tron (ction in Ti) Living Rc	Secondary Surface Drainae Dry-Se Crayfis oots (C3) Stuntee S(C6) X Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water Notes and Sedime X Drift De Algal M Iron De	rm is revised from Mic ://www.nrcs.usda.gov rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	/Internet/F	ired; check all that a water-Sta	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	eves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti) Living Rc	Secondary Surface Drainae Dry-Se Crayfis oots (C3) Stuntee S(C6) X Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water Notes and Sedime X Drift De Algal M Iron De Inundat	rm is revised from Mic ://www.nrcs.usda.gov OGY rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ir	ne is requi	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (ction in Tiel (C7) a (D9)) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis oots (C3) Stuntee S(C6) X Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water Mater Mate	rm is revised from Mic ://www.nrcs.usda.gov DGY rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave	ne is requi	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (ction in Tiel (C7) a (D9)) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis oots (C3) Stuntee S(C6) X Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water M Sedime X Drift De Algal M Iron De Inundat X Sparsel Field Obse	rm is revised from Mic ://www.nrcs.usda.gov DGY rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave	nagery (B'	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	eves (B9) 3) s (B14) Odor (C1 eres on led Iron (in Tiel (C7) a (D9) Remarks)) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis oots (C3) Stuntee S(C6) X Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water M Sedime X Drift De Algal M Iron De Inundat X Sparsel Field Obse	rm is revised from Mic ://www.nrcs.usda.gov OGY rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ir y Vegetated Concave rvations: ter Present? Ye	nagery (B Surface (l	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or B8) Other (Exp.	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	eves (B9) 3) s (B14) Odor (C1 eres on led Iron (in Tiel (C7) a (D9) Remarks)) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis oots (C3) Stuntee S(C6) X Geomo	Indicators (minimum of two required a Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water Manager Mana	rm is revised from Mic ://www.nrcs.usda.gov rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) farks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Ye Present? Ye	nagery (B' Surface (I	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or State Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	vves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tition in Ti r (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis oots (C3) Stuntee S(C6) X Geomo	Indicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W: Saturati Water M Sedime X Drift De Algal M Iron De Inundat X Sparsel Field Obse Surface Water Table Saturation F	rm is revised from Mic ://www.nrcs.usda.gov rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Ye Present? Ye	nagery (B' Surface (I	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or State Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	vves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tition in Ti r (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis Sots (C3) Saturat Stuntee X FAC-N	Indicators (minimum of two require e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water M Sedime X Drift De Algal M Iron De Inundat X Sparsel Field Obse Surface Water Table Saturation F (includes ca	rm is revised from Mic ://www.nrcs.usda.gov OGY rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ir y Vegetated Concave rvations: ter Present? Ye e Present? Ye Present? Ye	nagery (B Surface (I	ired; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck To Gauge or Sea Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on led (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis Saturat Stuntee X FAC-N Wetland Hydrology	Indicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water M Sedime X Drift De Algal M Iron De Inundat X Sparsel Field Obse Surface Water Table Saturation F (includes ca	rm is revised from Mic ://www.nrcs.usda.gov Portrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ir y Vegetated Concave rvations: ter Present? Ye a Present? Ye pillary fringe)	nagery (B Surface (I	ired; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck To Gauge or Sea Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on led (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis Saturat Stuntee X FAC-N Wetland Hydrology	Indicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)
Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water M Sedime X Drift De Algal M Iron De Inundat X Sparsel Field Obse Surface Water Table Saturation F (includes ca	rm is revised from Mic ://www.nrcs.usda.gov Portrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ir y Vegetated Concave rvations: ter Present? Ye a Present? Ye pillary fringe)	nagery (B Surface (I	ired; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck To Gauge or Sea Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on led (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainae Dry-Se Crayfis Saturat Stuntee X FAC-N Wetland Hydrology	Indicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) eutral Test (D5)

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pr	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Date	e: <u>9/20/</u>	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	o. Highway De	epartment		State: IN	Sampling Poir	nt: <u> </u>	OP 7
Investigator(s): Leigh Stevenson and Cameron Schule	er	Section, T	ownship, Ra	ange: Section 07, Town	nship 31 N, Rang	je 13 E	
Landform (hillside, terrace, etc.): Tillplain		1	Local relief (d	concave, convex, none):	Concave		
Slope (%):0 Lat: 41.151143		Long:	85.111439		Datum: WGS_1	984	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slop	es, frequently	flooded (Es)		NWI classi	fication: N/A		
Are climatic / hydrologic conditions on the site typical	for this time of	f year?	Yes X	No (If no, ex	plain in Remarks	;.)	
Are Vegetation , Soil , or Hydrology	significantly of	disturbed? A	Are "Normal (Circumstances" present?	Yes X	No	
Are Vegetation , Soil , or Hydrology	naturally prob	olematic? (If needed, ex	xplain any answers in Re	emarks.)		_
SUMMARY OF FINDINGS – Attach site m	ap showin	ıg samplin	g point lo	cations, transects	, important f	eatures	s, etc.
Hydrophytic Vegetation Present? Yes X N	lo	Is the	Sampled A	rea			
	lo		n a Wetland		No		
Wetland Hydrology Present? Yes X	lo				'		
Remarks:							
DP 7 is representative of Wetland 4.							
VEGETATION – Use scientific names of pla		Daminant	lu di a atau	T			
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1. Fraxinus pennsylvanica	5	Yes	FACW	Number of Dominant	Species That		
2.				Are OBL, FACW, or F	•	2	(A)
3				Total Number of Dom	inant Species		
4	· 			Across All Strata:	_	2	_(B)
5	5 =	Total Cover		Percent of Dominant Are OBL, FACW, or F	•	100.0%	(Δ/R)
Sapling/Shrub Stratum (Plot size: 15 ft)	- Total Gover		AIC OBE, I AOVV, OI I	AO	100.070	_(/////)
1.	. ′			Prevalence Index we	orksheet:		
2.				Total % Cover o	f: Mult	iply by:	_
3				OBL species (0 x 1 =	0	_
4	· ——			· · ·	0 x 2 =	20	_
5		T-1-1-0			1 x3=_	3	_
<u>Herb Stratum</u> (Plot size: 5 ft)		=Total Cover		· -	0 x 4 = 0 x 5 =	0	_
Lysimachia nummularia	5	Yes	FACW		1 (A)	23	(B)
Toxicodendron radicans	1	No	FAC	Prevalence Index	` ′ _	2.09	_ (-/
3.							
4				Hydrophytic Vegeta	tion Indicators:		
5.	· ——			1 - Rapid Test for		getation	
6.				X 2 - Dominance To			
7. 8.				X 3 - Prevalence In 4 - Morphologica		rovido su	nnortina
9.				· —	ks or on a separa		
10				Problematic Hydi	rophytic Vegetati	on¹ (Expla	ain)
-	6	Total Cover		¹ Indicators of hydric s			-
Woody Vine Stratum (Plot size: 30 ft)			be present, unless dis			
•				Hydrophytic			
2	·			Vegetation			
	-	=Total Cover		Present? Yes	<u>X</u> No_		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)						

US Army Corps of Engineers Midwest Region – Version 2.0

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	_	Remarks	
0-5	10YR 3/2	95	10YR 4/6	5	С	M	Loamy/Clayey	Prominen	nt redox concen	trations
5-16	10YR 4/1	90	10YR 4/6	10	С	М	Loamy/Clayey			
16-18	10YR 5/1	95	10YR 4/6	5	С	M	Loamy/Clayey			
			_					_		
							-	_		
								_		
1 _{Turner} C=C	oncentration, D=Dep	ation DM	-Daduard Matrix		Lead Con	d Crains	21 0001	on: PL=Pore Lir	aina M-Matrix	
Hydric Soil		elion, ixivi-	-ixeduced iviatrix, i	vio-ivias	Keu San	u Grairis		tors for Problem		nils ^{3,}
Histosol			Sandy Gle	eved Mat	rix (S4)			ast Prairie Redo	-	
	ipedon (A2)		Sandy Re	-				n-Manganese M		
Black His			Stripped N					ed Parent Materia	,	
	n Sulfide (A4)		Dark Surfa	-	,			ry Shallow Dark		
	Layers (A5)		Loamy Mu		eral (F1)			, her (Explain in R		
2 cm Mu			Loamy Gle	-				` .	,	
X Depleted	l Below Dark Surface	(A11)	X Depleted I	-						
Thick Da	rk Surface (A12)		X Redox Da	rk Surfac	e (F6)		³ Indica	tors of hydrophy	tic vegetation a	nd
Sandy M	ucky Mineral (S1)		Depleted I	Dark Sur	face (F7))	We	tland hydrology	must be presen	ıt,
5 cm Mu	cky Peat or Peat (S3)	Redox De	pression	s (F8)		un	less disturbed or	r problematic.	
Restrictive I	Layer (if observed):									
Type:										
Type: _ Depth (ir Remarks: This data for	m is revised from Mid								Yes X	No
Type: _ Depth (ir Remarks: This data for Errata. (http:	m is revised from Mic						NRCS Field Indicat			
Type:	m is revised from Mid //www.nrcs.usda.gov						NRCS Field Indicat			
Type:	m is revised from Mic						NRCS Field Indicat	ors of Hydric Soi	ils, Version 7.0,	2015
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Type:	m is revised from Mid //www.nrcs.usda.gov GY drology Indicators: cators (minimum of o Water (A1) ter Table (A2)	/Internet/F	red; check all that aX Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicat) Secone Dr	ors of Hydric Soi dary Indicators (in rface Soil Crack ainage Patterns	minimum of two s (B6)	2015
Type:	m is revised from Mid //www.nrcs.usda.gov GGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3)	/Internet/F	red; check all that a year of the Aquatic Fa	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicat) Second Dr Dr	dary Indicators (in the second	minimum of two s (B6) (B10) Table (C2)	2015
Type:	m is revised from Mid //www.nrcs.usda.gov drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1)	/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 sulfide (ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicat Second Dr Cr	dary Indicators (Inface Soil Crackainage Patterns y-Season Water ayfish Burrows (minimum of two s (B6) (B10) Table (C2) C8)	2015
Type:	m is revised from Mid//www.nrcs.usda.gov IGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2)	/Internet/F	red; check all that a X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1 eres on) Living Ro	NRCS Field Indicat Secon Su Dr Cr poots (C3)	dary Indicators (in the second	minimum of two s (B6) (B10) 'Table (C2) C8) on Aerial Image	2015
Type:	m is revised from Mid/www.nrcs.usda.gov GY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3)	/Internet/F	red; check all that a X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 leres on lead Iron (ced Iro) Living Ra	NRCS Field Indicat Secone Su Dr Dr Cr Cr Sots (C3) Sa St	dary Indicators (in trace Soil Crack ainage Patterns y-Season Water ayfish Burrows (in turation Visible counted or Stresse	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Image d Plants (D1)	2015
Type:	m is revised from Mic //www.nrcs.usda.gov GGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) oosits (B3) t or Crust (B4)	/Internet/F	red; check all that a X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc	vves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ction in Ti) Living Ra	Second	dary Indicators (in reace Soil Crack ainage Patterns y-Season Water ayfish Burrows (inturation Visible counted or Stresse comorphic Position	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Image d Plants (D1) on (D2)	2015
Type:	m is revised from Mid/www.nrcs.usda.gov GGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5)	/Internet/F	red; check all that a way water-Sta	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	eves (B9) 3) s (B14) Odor (C1 eres on lead Iron (etion in Tite (C7)) Living Ra	Second	dary Indicators (in trace Soil Crack ainage Patterns y-Season Water ayfish Burrows (in turation Visible counted or Stresse	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Image d Plants (D1) on (D2)	2015
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Type:	m is revised from Mic //www.nrcs.usda.gov GGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ir	ne is requi	red; check all that a Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat	eves (B9) 3) s (B14) Odor (C1 eres on led Iron (ction in Tiel (C7) a (D9)) Living Ro (C4) illed Soil:	Second	dary Indicators (in reace Soil Crack ainage Patterns y-Season Water ayfish Burrows (inturation Visible counted or Stresse comorphic Position	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Image d Plants (D1) on (D2)	2015
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Type:	m is revised from Mic //www.nrcs.usda.gov GY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ir Vegetated Concave vations: er Present? Ye	ne is requi	red; check all that a a control of the control of t	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F	aves (B9) 3) s (B14) Odor (C1 eres on led Iron (tition in Tite (C7) a (D9) Remarks)) Living Ra (C4)	Second	dary Indicators (in reace Soil Crack ainage Patterns y-Season Water ayfish Burrows (inturation Visible counted or Stresse comorphic Position	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Image d Plants (D1) on (D2)	2015
Type:	m is revised from Mid/www.nrcs.usda.gov IGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) arks (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ir Vegetated Concave vations: er Present? Ye Present? Ye	nagery (B7 Surface (B	red; check all that a way water-Star Aquatic Far True Aquatic Far Hydrogen Oxidized Far Presence Recent Iron Thin Muck Far Gauge or Gas Other (Exp.	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduct on Reduct on Reduct on Surface Well Dat Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on led (C7) a (D9) Remarks) nches): _ nches): _) Living Ra (C4)	Second	dary Indicators (Inface Soil Crack ainage Patterns y-Season Water ayfish Burrows (Inturation Visible of unted or Stresse comorphic Position	minimum of two (s (B6) (B10) (Table (C2) (C8) (D1) (D1) (D2) (D5)	2015
Type:	m is revised from Mid/www.nrcs.usda.gov IGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial Ir Vegetated Concave vations: er Present? Ye Present? Ye resent? Ye	nagery (B7 Surface (B	red; check all that and a second seco	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F	ves (B9) 3) s (B14) Odor (C1 eres on led (C7) a (D9) Remarks) nches): _ nches): _) Living Ra (C4)	Second	dary Indicators (Inface Soil Crack ainage Patterns y-Season Water ayfish Burrows (Inturation Visible of unted or Stresse comorphic Position	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Image d Plants (D1) on (D2)	2015 require
Type:	m is revised from Mid/www.nrcs.usda.gov IGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial Ir Vegetated Concave vations: er Present? Ye Present? Ye resent? Ye	nagery (Bi Surface (I	red; check all that a X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X	apply) ined Lea auna (B1 auna (B1 stic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on lettion in Title (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) illed Soils	Second	dary Indicators (Inface Soil Crack ainage Patterns y-Season Water ayfish Burrows (Inturation Visible of unted or Stresse comorphic Position	minimum of two (s (B6) (B10) (Table (C2) (C8) (D1) (D1) (D2) (D5)	2015 require
Type:	m is revised from Mic //www.nrcs.usda.gov drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ir Vegetated Concave vations: er Present? Ye Present? Ye resent? Ye present? Ye present? Ye	nagery (Bi Surface (I	red; check all that a X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X	apply) ined Lea auna (B1 auna (B1 stic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on lettion in Title (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) illed Soils	Second	dary Indicators (Inface Soil Crack ainage Patterns y-Season Water ayfish Burrows (Inturation Visible of unted or Stresse comorphic Position	minimum of two (s (B6) (B10) (Table (C2) (C8) (D1) (D1) (D2) (D5)	2015 require

US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	ject	City/Cour	nty: Fort Way	yne/Allen	Sampling Date:	9/20/2022	
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway Dε	partment		State: IN	Sampling Point:	DP 8	
Investigator(s): Leigh Stevenson and Cameron Schuler	ſ	Section, T	ownship, Rar	nge: Section 07, Town	ıship 31 N, Range	13 E	_
Landform (hillside, terrace, etc.): Tillplain		!	Local relief (co	oncave, convex, none):	Convex		_
Slope (%): 1 Lat: 41.151133		Long: -{	85.111345	•	Datum: WGS_198	34	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slope	es, frequently				fication: N/A		
Are climatic / hydrologic conditions on the site typical for		•	Yes X				
Are Vegetation , Soil , or Hydrology					•		
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach site ma						atures, etc	; <u>.</u> _
Hydrophytic Vegetation Present? Yes X No	0	Is the	Sampled Are	ea			
	o X		n a Wetland?		No X		
	o <u>X</u>						
Remarks: DP 8 is representative of the upland area surrounding							
VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator				_
<u>Tree Stratum</u> (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wo	rksheet:		
1. Platanus occidentalis	20	Yes	FACW	Number of Dominant	Species That		
2. Populus deltoides	15	Yes	FAC	Are OBL, FACW, or F	•	7 (A)	
3. Juglans nigra	10	No	FACU	Total Number of Dom	inant Species		
4. Fraxinus pennsylvanica	5	No	FACW	Across All Strata:	· <u>—</u>	8 (B)	
5. Asimina triloba	5	No	FAC	Percent of Dominant	Species That		
	55=	=Total Cover		Are OBL, FACW, or F	AC: 8	87.5% (A/B	,)
Sapling/Shrub Stratum (Plot size: 15 ft)		1				
Lonicera tatarica	40	Yes	FACU	Prevalence Index wo			
2. Asimina triloba	30	Yes	FAC	Total % Cover of			
3. Ulmus americana	5	No	FACW	OBL species 0		0	
4				FACW species 7		140	
5				·	2 x 3 =	216	
(Distance	<u>75</u> =	=Total Cover		FACU species 5		200	
Herb Stratum (Plot size: 5 ft)	20	Vaa	E 4 C\4/	UPL species Column Totals: 19		0 556 (P)	
Laportea canadensis Senicula aderate	<u>20</u> 10	Yes Yes	FACW			556 (B)	
Sanicula odorata Carex blanda	7	Yes	FAC FAC	Prevalence Index	= B/A =	10	
	7	Yes	FACW	Hydrophytic Vegetat	tion Indicators:		
Geum aleppicum Lysimachia nummularia	5	No	FACW		r Hydrophytic Vege	station	
6. Persicaria virginiana	5	No	FAC	X 2 - Dominance Te		tlation	
7. Symphyotrichum lateriflorum	5	No	FACW	3 - Prevalence Inc			
8. Cinna latifolia	3	No	FACW		uex is ≤3.0 I Adaptations¹ (Pro	vide supporti	ոց
9.		110	TACTE		ks or on a separate		ا ن
10.				Problematic Hydr	ophytic Vegetation	n ¹ (Explain)	
10	62 =	=Total Cover		¹ Indicators of hydric s		,	
Woody Vine Stratum (Plot size: 30 ft)			be present, unless dis			
1.					•		
2.				Hydrophytic Vegetation			
	=	=Total Cover		Present? Yes	X No	=	
Remarks: (Include photo numbers here or on a separ	rate sheet.)						
	-·· ,						

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/3	98	10YR 6/6	2	С	M	Loamy/Clayey	Distinct redox concentration
6-18	10YR 4/1	90	10YR 4/6	10	С	М	Loamy/Clayey	
							'	
							•	
								-
1Type: C=Co	ncentration, D=Depl	etion RM-	-Reduced Matrix I		ked San	d Grains	² l ocatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil I		Ction, rtivi-	-reduced Matrix, 1	vio-ivias	neu Gari	u Oranis		ors for Problematic Hydric Soils ³
Histosol (Sandy Gle	yed Mat	rix (S4)			ast Prairie Redox (A16)
	pedon (A2)		Sandy Re	-				n-Manganese Masses (F12)
Black His	tic (A3)		Stripped N	latrix (Se	5)		Red	d Parent Material (F21)
Hydrogen	Sulfide (A4)		Dark Surfa	ace (S7)			Ver	y Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Μι	icky Min	eral (F1)		Oth	er (Explain in Remarks)
2 cm Muc	` '		Loamy Gle	eyed Ma	trix (F2)			
	Below Dark Surface	(A11)	Depleted I	,	,		2	
	k Surface (A12)		Redox Da		` '			ors of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted I		` ')		land hydrology must be present,
	ky Peat or Peat (S3		Redox De	pression	s (F8)		unle	ess disturbed or problematic.
	ayer (if observed):							
Type:								
Danth (in	-b \.						Undela Call Desas	
	<u> </u>							rs of Hydric Soils, Version 7.0, 201
Remarks: This data forn Errata. (http://	n is revised from Mic /www.nrcs.usda.gov						NRCS Field Indicate	
Remarks: This data forn Errata. (http://	n is revised from Mic /www.nrcs.usda.gov						NRCS Field Indicate	
Remarks: This data forn Errata. (http://	n is revised from Mic /www.nrcs.usda.gov						NRCS Field Indicate	
Remarks: This data forn Errata. (http://	n is revised from Mic /www.nrcs.usda.gov GY rology Indicators: ators (minimum of o	/Internet/F	SE_DOCUMENTS	apply)	2p2_0512	293.docx	NRCS Field Indicato) Second	ary Indicators (minimum of two requ
Remarks: This data forn Errata. (http:// HYDROLOG Wetland Hyd Primary Indica	m is revised from Mic /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o	/Internet/F	SE_DOCUMENTS red; check all that Water-Sta	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicato) SecondSur	ary Indicators (minimum of two requirece Soil Cracks (B6)
Remarks: This data forn Errata. (http:// HYDROLOG Wetland Hyd Primary Indica	m is revised from Mic/www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o	/Internet/F	SE_DOCUMENTS red; check all that Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicator) Second Sur Dra	ary Indicators (minimum of two requires Soil Cracks (B6) inage Patterns (B10)
Remarks: This data form Errata. (http:// HYDROLOG Wetland Hyd Primary Indication Surface V High Wate Saturation	m is revised from Mic /www.nrcs.usda.gov	/Internet/F	red; check all that Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicator) Second Sur Dra Dry	ary Indicators (minimum of two requirece Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
Remarks: This data form Errata. (http:// HYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma	m is revised from Mic /www.nrcs.usda.gov	/Internet/F	red; check all that Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1 titic Plant	ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicator) Second Sur Dra Dry Cra	ary Indicators (minimum of two requirece Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8)
Remarks: This data form Errata. (http:// HYDROLOG Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment	rn is revised from Mic /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2)	/Internet/F	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1 eres on) Living Ro	NRCS Field Indicator Second Sur Dra Dry Cra poots (C3) Sat	ary Indicators (minimum of two required Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Remarks: This data forn Errata. (http:// HYDROLOG Wetland Hyd Primary Indic: Surface V High Wate Saturation Water Ma Sediment Drift Depo	rn is revised from Mic /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) er Deposits (B2) osits (B3)	/Internet/F	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on leaded from (ced fr) Living Ra	Second	ary Indicators (minimum of two requires Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (Conted or Stressed Plants (D1)
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ect	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Da	te: <u>9/20/</u>	/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	epartment		State: IN	Sampling Po	int:	OP 9
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	inge: N/A			
Landform (hillside, terrace, etc.): Tillplain			Local relief (d	concave, convex, none	: Concave		
Slope (%): 0.5 Lat: 41.150992		Long: -	85.110857		Datum: WGS	1984	
Soil Map Unit Name: Morley silty clay loam, 6 to 12 per	cent slopes						
Are climatic / hydrologic conditions on the site typical fo			Yes X		•	s.)	
Are Vegetation , Soil , or Hydrology s		-				-	
Are Vegetation, Soil, or Hydrologyn						-	_
SUMMARY OF FINDINGS – Attach site ma						features	s, etc.
Hydrophytic Vegetation Present? Yes X No		Is the	Sampled A	rea			
			a Wetland		No		
Wetland Hydrology Present? Yes X No							
Remarks:							
DP 9 is representative of Wetland 5.							
VEGETATION – Use scientific names of plan	nts.						
Trace Charles (Districts 20 ft)	Absolute	Dominant	Indicator	Daminanaa Taatuu	- ul-a la a a 4 :		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1.	% Cover	Species?	Status	Dominance Test we			
2.				Number of Dominan Are OBL, FACW, or	•	2	(A)
3.				Total Number of Dor	_		- ` ′
4.				Across All Strata:	Illinant Opcolcs	2	(B)
5.				Percent of Dominant	t Species That		_
	:	=Total Cover		Are OBL, FACW, or	FAC:	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)							
1.				Prevalence Index w			
2. 3.				Total % Cover of	of: Mu 17 x 1 =	Itiply by:	_
4.				·	37 x 2 =	17 74	_
5.				· —	46 x 3 =	138	_
		Total Cover		FACU species	0 x 4 =	0	_
Herb Stratum (Plot size: 5 ft)				UPL species	0 x 5 =	0	_
Panicum capillare	40	Yes	FAC	Column Totals: 1	(A)	229	(B)
2. Persicaria punctata	15	Yes	OBL	Prevalence Index	= B/A =	2.29	_
3. Echinochloa crus-galli	10	No	FACW				
4. Phalaris arundinacea	10	No No	FACW	Hydrophytic Veget			
Cyperus esculentus Lysimachia nummularia	<u>10</u> 5	No No	FACW FACW	1 - Rapid Test fo	, , ,	egetation	
Lysimachia nummularia Rumex crispus	4	No No	FAC	X 3 - Prevalence I			
8. Eupatorium serotinum	2	No	FAC	4 - Morphologica		Provide sui	pporting
Persicaria maculosa	2	No	FACW		rks or on a sepa		
10. Scirpus atrovirens	2	No	OBL	Problematic Hyd	drophytic Vegeta	tion ¹ (Expla	ain)
	100	Total Cover		¹ Indicators of hydric	soil and wetland	hydrology	must
Woody Vine Stratum (Plot size: 30 ft)				be present, unless d			
1.				Hydrophytic			
2		T-1-1-0		Vegetation			
		=Total Cover		Present? Yes	S <u>X</u> No_		
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Depth (inches)	Matrix		Redo	x Featur	es			
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/1	90	10YR 4/6	10	С	M	Loamy/Clayey	Prominent redox concentrations
12-18	10YR 5/1	93	10YR 4/6	7	С	М	Loamy/Clayey	
1Type: C=C	oncentration, D=Deple	etion RM	=Reduced Matrix M	 1S=Mas	ked San	d Grains	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil		Stion, rtivi	Troduced Water, I	no mas	itou ouri	a Oranio.		rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	ved Mat	rix (S4)			st Prairie Redox (A16)
	pipedon (A2)		Sandy Red	-				Manganese Masses (F12)
Black His			Stripped M	, ,				Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	-	-,			Shallow Dark Surface (F22)
· ·	Layers (A5)		Loamy Mu		eral (F1)			r (Explain in Remarks)
2 cm Mu			Loamy Gle	-				т (Ехринт птетине)
	Below Dark Surface	(A11)	X Depleted N	-				
·	rk Surface (A12)	(/ () /)	Redox Dai				³ Indicator	rs of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted [. ,)		and hydrology must be present,
	cky Peat or Peat (S3)	ı	Redox De		` '	,		ss disturbed or problematic.
	Layer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Present	t? Yes ^X No
		Internet/F	SE_DOCUMENTS	/nrcs142				s of Hydric Soils, Version 7.0, 2015
		internet/F	SE_DOCUMENTS	/nrcs142				o of Frydrio Gollo, Volciol 17.0, 2010
		Internet/F	SE_DOCUMENTS	/nrcs142				5 61 Flydilo Gollo, Volaidil 7.0, 2010
Wetland Hyd	drology Indicators:							o of Frydrio Gollo, Volciol 17.0, 2010
Wetland Hye	drology Indicators: cators (minimum of on		red; check all that a	apply)	2p2_0512	293.docx	s)Seconda	ry Indicators (minimum of two require
Wetland Hyd Primary Indic	drology Indicators: cators (minimum of on Water (A1)		red; check all that a	apply) ned Lea	ves (B9)	293.docx	Secondal	ry Indicators (minimum of two require ace Soil Cracks (B6)
Wetland Hyde Primary Indic Surface V	drology Indicators: cators (minimum of on Water (A1) ter Table (A2)		red; check all that a Water-Stai Aquatic Fa	apply) ned Lea nuna (B1	ves (B9)	293.docx	Seconda Surfa X Drair	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10)
Primary Indic Surface V High Wa	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3)		red; check all that a Water-Stal Aquatic Fa True Aqua	apply) ned Lea luna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx	Secondal Surfa X Drair Dry-S	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Wetland Hyd Primary Indic Surface V High Wat X Saturatio Water Ma	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1)		red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ned Lea auna (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Odor (C1	293.docx	Secondal Surfa X Drair Dry-S Cray	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Primary Indic Surface V High Wa X Saturatio Water Manual Sedimen	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)		red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1 eres on	293.docx	Secondal Surfa X Drair Dry-5 Cray poots (C3) Satur	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Wetland Hyd Primary Indic Surface V High Wa X Saturatio Water Ma Sedimen Drift Dep	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3)		red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on ced Iron ced Iron) Living Ro	Secondal Surfa X Drair Dry-5 Cray pots (C3) Satur	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
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Wetland Hyd Primary Indic Surface V High Wa X Saturatio Water Ma Sedimen Drift Dep X Algal Ma Iron Dep	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5)	ne is requi	red; check all that a Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ned Lea tuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	ves (B9) 3) s (B14) Odor (C1 eres on ced Iron of tion in Ti (C7)) Living Ro	Secondal Surfa X Drair Dry-S Cray pots (C3) Satur Stund	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Wetland Hyd Primary Indic Surface V High Wa X Saturatio Water Mi Sedimen Drift Dep X Algal Ma Iron Dep Inundation	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial Im	ne is requi	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck Gauge or V	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on ced Iron of tion in Ti (C7) a (D9)) Living Ro (C4) illed Soils	Secondal Surfa X Drair Dry-S Cray pots (C3) Satur Stund	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
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Wetland Hyderimary Indice Surface Verified High Water Mater	drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) ot or Crust (B4) osits (B5) on Visible on Aerial Improved the Concave services are present? Yes Present? Yes	nagery (B7 Surface (E	red; check all that a Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or N 38) Other (Exp	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on tion in Ti (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) illed Soils	Secondal Surfa X Drair Dry-5 Cray Poots (C3) Satur Stunt S (C6) X Geor X FAC-	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Primary Indic Surface V High Wat X Saturatio Water Mater Mat	drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial Improved the Vegetated Concave Servations: er Present? Present? Yes ersent? Yes	nagery (B7 Surface (E	red; check all that a Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or N 38) Other (Exp	apply) ned Lea tuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on tion in Ti (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) illed Soils	Secondal Surfa X Drair Dry-S Cray pots (C3) Satur Stund	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Wetland Hyde Primary Indice Surface V High Wat X Saturatio Water Mater Mater Mater Mater Mater Drift Dep X Algal Mater Dep Inundation Sparsely Field Obsert Surface Water Mater Table Saturation Political Control Con	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) ot or Crust (B4) osits (B5) on Visible on Aerial Im vegetated Concave s vations: er Present? Present? Yes resent? Yes oillary fringe)	nagery (B7 Surface (E	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Gauge or V No X No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on ted Iron (C7) a (D9) temarks) nches): _ nches): _) Living Ro (C4) illed Soils	Secondal Surfa X Drair Dry-S Cray Doots (C3) Satur Stund S (C6) X Geor X FAC-	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
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Wetland Hyde Primary Indice Surface V High Wat X Saturatio Water Mater Mater Mater Mater Mater Dep X Algal Mater Dep Inundation Sparsely Field Observation Poly Saturation Poly (includes cap	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) ot or Crust (B4) osits (B5) on Visible on Aerial Im vegetated Concave s vations: er Present? Present? Yes resent? Yes oillary fringe)	nagery (B7 Surface (E	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Gauge or V No X No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on ted Iron (C7) a (D9) temarks) nches): _ nches): _) Living Ro (C4) illed Soils	Secondal Surfa X Drair Dry-S Cray Doots (C3) Satur Stund S (C6) X Geor X FAC-	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling D	ate: 9/20	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	Sampling P	oint: D	P 10
Investigator(s): Leigh Stevenson and Cameron Schule	r	Section, T	ownship, Ra	inge: N/A			
Landform (hillside, terrace, etc.): Tillplain		!	Local relief (d	concave, convex, none	e): Convex		
Slope (%): 1 Lat: 41.151084		Long: -	85.110853		Datum: WGS	1984	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slope	es, frequently				ssification: N/A		
Are climatic / hydrologic conditions on the site typical for			Yes X		·	ks.)	
Are Vegetation , Soil , or Hydrology		•				•	
Are Vegetation, Soil, or Hydrology							_
SUMMARY OF FINDINGS – Attach site ma						features	s, etc.
Hydrophytic Vegetation Present? Yes No	o X	le the	Sampled A	roa			
	<u> </u>		n a Wetland		No X		
	o X				_	•	
Remarks:		I					
DP 10 is representative of the upland area surroundir	ng Wetland 5.						
VEGETATION – Use scientific names of pla							
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test w	vorkshoot:		
1.	70 OOVC1	Орсскоз:	Otatus	Number of Domina			
2.				Are OBL, FACW, o	•	1	(A)
3.				Total Number of Do	ominant Species		_
4				Across All Strata:	·	2	_(B)
5				Percent of Dominal	•		
		=Total Cover		Are OBL, FACW, o	r FAC:	50.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)			Prevalence Index	workshoot		
1 2.				Total % Cover		ultiply by:	
3.				OBL species	0 x 1 =	0	_
4.				FACW species	20 x 2 =	40	_
5.				FAC species	35 x 3 =	105	_
	:	=Total Cover		FACU species	45 x 4 =	180	_
Herb Stratum (Plot size: 5 ft)				UPL species	0 x 5 =	0	_
1. Schedonorus arundinaceus	40	Yes	FACU	Column Totals:	100 (A)	325	_(B)
2. Panicum capillare	20	Yes	FAC	Prevalence Inde	x = B/A =	3.25	_
Lysimachia nummularia Poa pratensis	10	No No	FACW FAC	Hydrophytic Vege	tation Indicator	· ·	
5. Eupatorium serotinum	5	No	FAC		for Hydrophytic \		
6. Oxalis stricta	5	No	FACU	2 - Dominance	, , ,	. ogotation	
7. Verbena hastata	5	No	FACW	3 - Prevalence			
8. Anemone canadensis	5	No	FACW		cal Adaptations ¹	•	
9				data in Rem	arks or on a sepa	arate sheet))
10				Problematic Hy	drophytic Veget	ation ¹ (Expl	ain)
March March Otrata	100	=Total Cover		¹ Indicators of hydrid			must
Woody Vine Stratum (Plot size: 30 ft)			be present, unless	aisturbed or prob	olematic.	
1 2.				Hydrophytic			
<u></u>		Total Cover		Vegetation Present? Ye	es No	X	
Remarks: (Include photo numbers here or on a sepa				1			
remario. (illolado prioto flatibolo flete di di a sepa	1410 311061. <i>j</i>						

Depth (inches) 0-6	Matrix		Redo	x Featur	es					
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
U-D	10YR 3/2	100	. ()		71		Loamy/Clayey			
6-13	10YR 4/1	95	10YR 4/6	5			Sandy			
13-18	10YR 5/1	95	10YR 4/6	5	<u>C</u>	<u>M</u>	Sandy			
1										
	oncentration, D=Deple	etion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains		=Pore Lining, M=Matrix.		
Hydric Soil I			Sandy Cla	wad Mat	riv (C1)			r Problematic Hydric Soils ³ :		
Histosol (ipedon (A2)		Sandy Gle X Sandy Red	-	IIX (S4)			airie Redox (A16) ganese Masses (F12)		
Black His			Stripped M		:)			nt Material (F21)		
	n Sulfide (A4)		Dark Surfa	•	"			llow Dark Surface (F22)		
	Layers (A5)		Loamy Mu		eral (F1)			plain in Remarks)		
2 cm Muc			Loamy Gle	-				plant in recinality		
	Below Dark Surface	(A11)	Depleted N	•	` '					
	rk Surface (A12)	(/		•	,		³ Indicators of	hydrophytic vegetation and		
	ucky Mineral (S1)	ace (A12) Redox Dark Surface (F6)					ydrology must be present,			
	cky Peat or Peat (S3))	Redox De	pression	s (F8)		unless disturbed or problematic.			
Restrictive L	_ayer (if observed):									
Type:	,									
Depth (in	iches):						Hydric Soil Present?	Yes ^X No		
	OV									
HYDROLO										
-	drology Indicators:									
-	cators (minimum of or	ne is require								
Surface V	Water (A1)							dicators (minimum of two required		
			Water-Sta	ined Lea			Surface S	oil Cracks (B6)		
High Wat	ter Table (A2)		Water-Stai	ined Lea una (B1	3)		Surface S Drainage	oil Cracks (B6) Patterns (B10)		
High Wat	n (A3)		Water-Stai Aquatic Fa True Aqua	ined Lea iuna (B1 tic Plant	3) s (B14)		Surface S Drainage Dry-Seas	oil Cracks (B6) Patterns (B10) on Water Table (C2)		
High Wat Saturation Water Ma	n (A3) arks (B1)		Water-Stal Aquatic Fa True Aqua Hydrogen	ined Lea una (B1 tic Plant Sulfide (3) s (B14) Odor (C1)		Surface S Drainage Dry-Seas Crayfish I	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)		
High Wat Saturation Water Ma Sediment	on (A3) arks (B1) t Deposits (B2)		Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 tic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on L	iving R	Surface S Drainage Dry-Seas Crayfish I soots (C3) Saturation	Foil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)		
High Wat Saturation Water Ma Sediment Drift Depo	on (A3) arks (B1) t Deposits (B2) osits (B3)		Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1) eres on L ced Iron (iving Ro	Surface S Drainage Dry-Seas Crayfish I Dots (C3) Saturation Stunted c	Foil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1)		
High Wat Saturation Water Ma Sediment Drift Depo	on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	3) s (B14) Odor (C1) eres on L ced Iron (tion in Til	iving Ro	Surface S Drainage Dry-Seas Crayfish I soots (C3) Saturation Stunted of s (C6) Geomorp	Foil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) thic Position (D2)		
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat	on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	nagery (B7	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	3) s (B14) Odor (C1) eres on L ced Iron (tion in Til (C7)	iving Ro	Surface S Drainage Dry-Seas Crayfish I soots (C3) Saturation Stunted of s (C6) Geomorp	Foil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1)		
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High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water	on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Im Vegetated Concave vations: er Present? Present? Yes resent? Yes	Surface (B	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or N Other (Exp	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	s (B14) Ddor (C1) eres on L ed Iron (tion in Til (C7) a (D9) emarks) nches):nches):nches): _	iving Ro	Surface S Drainage Dry-Seas Crayfish I soots (C3) Saturation Stunted c s (C6) FAC-Neu	soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) r Stressed Plants (D1) hic Position (D2) tral Test (D5)		
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table I Saturation Pr (includes cap	on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Im Vegetated Concave vations: er Present? Present? Yes resent? Yes	Surface (B	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V 8) Other (Exp	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	3) s (B14) Odor (C1) eres on L ted Iron (tition in Til (C7) a (D9) demarks) nches):nches):nches):	civing Ro	Surface S Drainage Dry-Seas Crayfish I Saturation Stunted of S (C6) FAC-Neu Wetland Hydrology P	soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) r Stressed Plants (D1) hic Position (D2) tral Test (D5)		
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table I Saturation Pr (includes cap	on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Im Vegetated Concave vations: er Present? Present? Yes resent? Yes oillary fringe)	Surface (B	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V 8) Other (Exp	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	3) s (B14) Odor (C1) eres on L ted Iron (tition in Til (C7) a (D9) demarks) nches):nches):nches):	civing Ro	Surface S Drainage Dry-Seas Crayfish I Saturation Stunted of S (C6) FAC-Neu Wetland Hydrology P	soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) r Stressed Plants (D1) hic Position (D2) tral Test (D5)		
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table I Saturation Pr (includes cap	on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Im Vegetated Concave vations: er Present? Present? Yes resent? Yes oillary fringe)	Surface (B	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V 8) Other (Exp	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	3) s (B14) Odor (C1) eres on L ted Iron (tition in Til (C7) a (D9) demarks) nches):nches):nches):	civing Ro	Surface S Drainage Dry-Seas Crayfish I Saturation Stunted of S (C6) FAC-Neu Wetland Hydrology P	soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) r Stressed Plants (D1) hic Position (D2) tral Test (D5)		

US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Date	9/20/	2022
Applicant/Owner: City of Fort Wayne and Allen Co	o. Highway De	epartment		State: IN	Sampling Poin	t: <u>D</u> '	P 11
Investigator(s): Leigh Stevenson and Cameron Schule	r	Section, T	Township, Ra	inge: Section 07, Town	ship 31 N, Range	 ≥ 13 E	
Landform (hillside, terrace, etc.): Tillplain			Local relief (d	concave, convex, none):	Convex		
Slope (%): 0.5 Lat: 41.151774			85.111096	•	Datum: WGS 19	984	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slope	es frequently				fication: N/A		
Are climatic / hydrologic conditions on the site typical f			Yes X)	
Are Vegetation , Soil , or Hydrology		-		Circumstances" present?		-	
Are Vegetation , Soil , or Hydrology				•			_
SUMMARY OF FINDINGS – Attach site m						atures	, etc.
Hydrophytic Vegetation Present? Yes X N	0	Is the	Sampled A	rea			
	o		n a Wetland		No		
•	0						
Remarks:							
DP 11 is representative of Wetland 6.							
VEGETATION – Use scientific names of pla	ants.						
T 01 1 (D) 1 1 00 (C)	Absolute	Dominant	Indicator	.			
Tree Stratum (Plot size: 30 ft)	% Cover 15	Species? Yes	Status FACW	Dominance Test wo			
Fraxinus pennsylvanica Ulmus americana	10	Yes	FACW	Number of Dominant Are OBL, FACW, or F	•	6	(A)
3. Populus deltoides	10	Yes	FAC		_		_(' ')
4.				Total Number of Dom Across All Strata:	mant Species	6	(B)
5.				Percent of Dominant	— Species That		_ ` '
	35	Total Cover		Are OBL, FACW, or F	•	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)						
1. Fraxinus pennsylvanica	15	Yes	FACW	Prevalence Index wo	orksheet:		
2				Total % Cover of		ply by:	_
3.				· -	2 x 1 =	2	_
4				FACW species 4		88	_
5	15	=Total Cover		FAC species 1 FACU species 0	0 x3= x4=	30 0	_
Herb Stratum (Plot size: 5 ft)	10	- Total Cover		· -)	0	_
Lysimachia nummularia	3	Yes	FACW		6 (A)	120	(B)
2. Glyceria striata	2	Yes	OBL	Prevalence Index		.14	_ (-/
Symphyotrichum lateriflorum	1	No	FACW				_
4.				Hydrophytic Vegeta	tion Indicators:		
5				1 - Rapid Test for	Hydrophytic Vec	jetation	
6				X 2 - Dominance Te			
7				X 3 - Prevalence In			
8				4 - Morphological	Adaptations ٰ (Pr s or on a separa		
9					·		
10	6	Total Cover		Problematic Hydr			,
Woody Vine Stratum (Plot size: 30 ft)	7 Stai 00 Vei		¹ Indicators of hydric s be present, unless dis			must
1.	,			,			
2.				Hydrophytic Vegetation			
	:	Total Cover		•	X No_		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						
	·						

	•	to the dep				itor or c	onfirm the absence of	of indicators.)		
Depth	Matrix			x Featur		. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-14	10YR 4/2	93	10YR 4/6	7	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations		
14-18	10YR 4/1	80	10YR 4/6	10	C	M	Loamy/Clayey			
			10YR 6/1	10	D	M				
-										
1Typo: C=C	oncentration, D=Dep	lotion PM	-Poducod Matrix M		kod San		² l ocation	: PL=Pore Lining, M=Matrix.		
Hydric Soil		ieuon, ixivi	-iteduced Matrix, i	vio-ivias	Neu San	Giailis		s for Problematic Hydric Soils ³ :		
Histosol			Sandy Gle	eved Mat	rix (S4)			t Prairie Redox (A16)		
	pipedon (A2)		Sandy Re					Manganese Masses (F12)		
Black Hi			Stripped M					Parent Material (F21)		
	n Sulfide (A4)		Dark Surfa		-,			Shallow Dark Surface (F22)		
	l Layers (A5)		Loamy Mu		eral (F1)			r (Explain in Remarks)		
	ick (A10)		Loamy Gle	-				,		
Depleted	Below Dark Surface	e (A11)	X Depleted I							
Thick Da	ark Surface (A12)		Redox Da	rk Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and		
Sandy M	lucky Mineral (S1)		Depleted I	Dark Sur	face (F7)		wetla	nd hydrology must be present,		
5 cm Mu	icky Peat or Peat (S3	3)	Redox De	pression	s (F8)		unless disturbed or problematic.			
Restrictive	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Present	? Yes No		
	//www.nrcs.usda.go\							of Hydric Soils, Version 7.0, 2015		
HYDROLO)GY									
_	drology Indicators:	no lo roqui	rad, abaak all that	annlu)			Casandar	, Indicators (minimum of two required)		
-	cators (minimum of c Water (A1)	ne is requi	X Water-Sta		vos (RO)			y Indicators (minimum of two required) ce Soil Cracks (B6)		
	iter Table (A2)		Aquatic Fa					age Patterns (B10)		
Saturation	,		True Aqua	`	,			Season Water Table (C2)		
	arks (B1)		Hydrogen)		ish Burrows (C8)		
	nt Deposits (B2)		Oxidized F					ration Visible on Aerial Imagery (C9)		
X Drift Dep			Presence			-	` ' —	ed or Stressed Plants (D1)		
	nt or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	s (C6) X Geon	norphic Position (D2)		
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		X FAC-	Neutral Test (D5)		
Inundation	on Visible on Aerial I	magery (B	7) Gauge or	Well Dat	a (D9)					
X Sparsely	Vegetated Concave	Surface (I	38) Other (Exp	olain in F	Remarks)					
Field Obser	vations:									
Surface Wat	er Present? Ye	es	No X	Depth (i	nches):					
Water Table	Present? Ye	es	No X	Depth (i	nches):					
Saturation P	resent? Ye	es	No X	Depth (i	nches):		Wetland Hydrolog	gy Present? Yes X No		
(includes ca	pillary fringe)									
Describe Re	corded Data (stream	gauge, m	onitoring well, aeria	al photos	, previou	s inspec	tions), if available:			
Remarks:										
Ī										

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ect	City/Cour	nty: Fort Wa	yne/Allen	Samp	oling Date:	9/20/2	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	epartment	-	State: I	N Samp	oling Point:	DI	P 12
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	nge: Section 07,	Township 31	N, Range	13 E	
Landform (hillside, terrace, etc.): Tillplain			_ocal relief (c	concave, convex, r	none): Convex			
Slope (%): 1 Lat: 41.151803						WGS_198	4	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slopes	s, frequently				classification:			
Are climatic / hydrologic conditions on the site typical fo	-		Yes X		no. explain in I	Remarks.)		
Are Vegetation, Soil, or Hydrologys							0	
Are Vegetation, Soil, or Hydrologyn								-
SUMMARY OF FINDINGS – Attach site ma							tures	, etc.
Hydrophytic Vegetation Present? Yes No	Х	Is the	Sampled A	rea				
			a Wetland?		No	Χ		
	X			•				
Remarks:								
DP 12 is representative of the upland area surrounding	y Wetland 6.							
VEGETATION – Use scientific names of plar	nts.							
	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Te	st worksheet	:		
Platanus occidentalis Populus deltoides	25	Yes Yes	FACW FAC	Number of Dom	•	That	3	(A)
3. Acer saccharum	20	Yes	FACU	Are OBL, FACV	·		<u> </u>	_(^)
4. Juglans nigra	10	No	FACU	Total Number of Across All Strat		pecies	8	(B)
5. Cercis canadensis	10	No	FACU					_(D)
o. Odrale danadonale		=Total Cover	17.00	Percent of Dom Are OBL, FACV	•		7.5%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)				,	•			_` ′
Lonicera tatarica	25	Yes	FACU	Prevalence Inc	dex workshee	t:		
2. Cercis canadensis	10	Yes	FACU	Total % Co	over of:	Multiply	/ by:	_
3. Fraxinus pennsylvanica	10	Yes	FACW	OBL species	0	x 1 =	0	_
4. Acer saccharum	5	No	FACU	FACW species	35	x 2 =	70	_
5				FAC species	22	x 3 =	66	_
	50 =	=Total Cover		FACU species	90		360	_
Herb Stratum (Plot size: 5 ft)	_	.,	E4.011	UPL species	0	x 5 =	0	- (D)
Lonicera tatarica Rosa multiflora	5	Yes	FACU	Column Totals:		′ 	496	_(B)
Rosa multimora Toxicodendron radicans	5	Yes No	FACU FAC	Prevalence i	ndex = B/A =	3.3		-
		INO	TAC	Hydrophytic V	egetation Ind	icators:		
					est for Hydrop		tation	
6.					nce Test is >5	-		
7.					nce Index is ≤			
8.				4 - Morpho	logical Adapta	tions¹ (Prov	ide sur	porting
9.				data in F	Remarks or on	a separate	sheet)	
10				Problemati	c Hydrophytic	Vegetation	¹ (Expla	ain)
	12	Total Cover		¹ Indicators of h				must
Woody Vine Stratum (Plot size: 30 ft)				be present, unle	ess disturbed	or problema	itic.	
1.				Hydrophytic				
2		Tatal O		Vegetation	Vaa	Na V		
		=Total Cover		Present?	Yes	No X		
Remarks: (Include photo numbers here or on a separa	ate sheet.)							

US Army Corps of Engineers Midwest Region – Version 2.0

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 3/2	100					Loamy/Clay	vey		
10-18	10YR 4/2	93	10YR 5/6	7	С	М	Loamy/Clay	/ey		
	1						-			
			_							
1- 0.0			<u> </u>				2,			
Hydric Soil I	ncentration, D=Depl	etion, RM	=Reduced Matrix, I	viS=Mas	ked Sand	Grains		cation: PL=Pore		•
Histosol (Sandy Gle	wed Mat	riv (S4)		IIIC	Coast Prairie Re	-	SUIS .
	ipedon (A2)		Sandy Re	-				Iron-Manganese		
Black His			Stripped M					Red Parent Mat	` ,	
	n Sulfide (A4)		Dark Surfa	-	3)			Very Shallow Da		2)
	Layers (A5)		Loamy Mu		eral (F1)			Other (Explain i		-/
2 cm Mud			Loamy Gle	-						
	Below Dark Surface	(A11)	X Depleted N	•	` '					
	rk Surface (A12)	()	Redox Da	•	,		³ In	dicators of hydrop	ohytic vegetation	n and
	ucky Mineral (S1)		Depleted [` '			wetland hydrolo		
5 cm Mud	cky Peat or Peat (S3)	Redox De	pression	s (F8)		unless disturbed or problematic.			
Restrictive L	.ayer (if observed):									
	,									
Type:										
	ches): m is revised from Mic //www.nrcs.usda.gov								Yes X Soils, Version 7	.0, 2015
Depth (in Remarks: This data forr Errata. (http:/	m is revised from Mic /www.nrcs.usda.gov						NRCS Field Inc			
Depth (in Remarks: This data forr Errata. (http:/	m is revised from Mic /www.nrcs.usda.gov						NRCS Field Inc			
Depth (in Remarks: This data forr Errata. (http://	m is revised from Mic/www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	5/nrcs142			NRCS Field Inc	licators of Hydric	Soils, Version 7	.0, 2015
Depth (in Remarks: This data forr Errata. (http://h	m is revised from Mic/www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o	/Internet/F	SE_DOCUMENTS	apply)	2p2_0512		NRCS Field Inc	licators of Hydric	Soils, Version 7	.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V	m is revised from Mic //www.nrcs.usda.gov GY trology Indicators: ators (minimum of orator)	/Internet/F	red; check all that a	apply) ined Lea	2p2_0512		NRCS Field Inc	licators of Hydric condary Indicator Surface Soil Cra	Soils, Version 7	.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyo Primary Indic Surface V High Wat	m is revised from Mic/www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o	/Internet/F	red; check all that a	apply) ined Lea	2p2_0512 nves (B9) 3)		NRCS Field Inc	condary Indicator Surface Soil Cra	Soils, Version 7	.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyde Primary Indice Surface V High Wat Saturatio	GY Irology Indicators: ators (minimum of or Nater (A1) ter Table (A2) n (A3)	/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1	aves (B9) 3) s (B14)	293.docx	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa	Soils, Version 7 rs (minimum of tacks (B6) rns (B10) ater Table (C2)	.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma	m is revised from Mic /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of or Nater (A1) er Table (A2) n (A3) arks (B1)	/Internet/F	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 titic Plant	aves (B9) 3) s (B14) Odor (C1	293.docx	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa Crayfish Burrow	rs (minimum of tacks (B6) rns (B10) ater Table (C2) vs (C8)	.0, 2015 wo require
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyo Primary Indio Surface V High Wat Saturatio Water Ma Sedimen	m is revised from Mic /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	/Internet/F	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph	aves (B9) 3) s (B14) Odor (C1) peres on I	293.docx	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib	Soils, Version 7 rs (minimum of tacks (B6) rns (B10) ater Table (C2) rs (C8) ele on Aerial Ima	wo require
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyo Primary Indic Surface V High Wat Saturatio Water Ma Sediment Drift Dep	m is revised from Mic/www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Nater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	/Internet/F	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc	aves (B9) 3) s (B14) Odor (C1) deres on L) Living Ro	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Stunted or Stres	Soils, Version 7 rs (minimum of tacks (B6) rns (B10) ater Table (C2) vs (C8) ble on Aerial Ima	wo require
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Surface V High Wat Saturatio Water Ma Sedimen: Drift Depo	GY Groogy Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Farer Presence Recent Iro	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Redu on Reduc	oves (B9) 3) s (B14) Odor (C1 deres on I deed Iron () Living Ro	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Po	Soils, Version 7 Tes (minimum of tracks (B6) Tens (B10) Atter Table (C2) Vers (C8) Tole on Aerial Imalessed Plants (D1) Tesition (D2)	wo require
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat	GY Irology Indicators: ators (minimum of or Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	/Internet/F	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduce s Surface	aves (B9) 3) s (B14) Odor (C1) ares on I ced Iron (ction in Ti) Living Ro	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Stunted or Stres	Soils, Version 7 Tes (minimum of tracks (B6) Tens (B10) Atter Table (C2) Vers (C8) Tole on Aerial Imalessed Plants (D1) Tesition (D2)	wo require
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sediment Drift Depto Algal Mat Iron Depto Inundatio	GY Groogy Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	ne is requi	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduce on Reduce Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) areres on I ced Iron (ction in Ti e (C7) a (D9)) Living Ro	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Po	Soils, Version 7 Tes (minimum of tracks (B6) Tens (B10) Atter Table (C2) Vers (C8) Tole on Aerial Imalessed Plants (D1) Tesition (D2)	wo require
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sediment Drift Depto Algal Mat Iron Depto Inundatio	m is revised from Mic //www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Nater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial Ir Vegetated Concave	ne is requi	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduce on Reduce Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) areres on I ced Iron (ction in Ti e (C7) a (D9)) Living Ro	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Po	Soils, Version 7 Tes (minimum of tracks (B6) Tens (B10) Atter Table (C2) Vers (C8) Tole on Aerial Imalessed Plants (D1) Tesition (D2)	wo require
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyo Surface V High Wat Saturatio Water Ma Sedimen Drift Depo Algal Mat Iron Depo Inundatio Sparsely	GY Irology Indicators: ators (minimum of or Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Ir Vegetated Concave vations:	nagery (B ⁷ Surface (I	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or	apply) ined Lea auna (B1 autic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat	aves (B9) 3) s (B14) Odor (C1) areres on I ced Iron (ction in Ti e (C7) a (D9)) Living Ro	NRCS Field Inc	condary Indicator Surface Soil Cra Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Po	Soils, Version 7 Tes (minimum of tracks (B6) Tens (B10) Atter Table (C2) Vers (C8) Tole on Aerial Imalessed Plants (D1) Tesition (D2)	wo require
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Dat	te: <u>9/20/</u>	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	Sampling Poi	nt: D	P 13
Investigator(s): Leigh Stevenson and Cameron Schule	r	Section, T	ownship, Ra	inge: Section 07, Town	ship 31 N, Ranç	ge 13 East	t
Landform (hillside, terrace, etc.): Tillplain			Local relief (concave, convex, none):	Cocave		
Slope (%): 0 Lat: 41.159389			•		Datum: WGS 1	1984	
Soil Map Unit Name: Blount loam, interlobate moraine	s. 0 to 2 perc				fication: N/A		
Are climatic / hydrologic conditions on the site typical for		•	Yes X			<u> </u>	
Are Vegetation , Soil , or Hydrology		•				•	
Are Vegetation , Soil , or Hydrology							-
SUMMARY OF FINDINGS – Attach site ma						features	, etc.
· ——	o		Sampled A		No		
Remarks:	<u> </u>						
DP 13 is representative Wetland 7-A.							
VEGETATION – Use scientific names of pla	ints.						
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rkahaat:		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1.	70 COVE	Species:	Status				
2.				Number of Dominant Are OBL, FACW, or F	•	2	(A)
3.				Total Number of Dom	inant Species		_
4				Across All Strata:	· <u>-</u>	2	_(B)
5				Percent of Dominant	•		
Capling/Chrub Ctratum /Dlataire, 45 ft	· ———=	=Total Cover		Are OBL, FACW, or F	AC:	100.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft	<i>)</i> 10	Yes	OBL	Prevalence Index wo			
2. Populus deltoides	2	No	FAC	Total % Cover of		tiply by:	
3.				-)3 x 1 =	103	_
4.				FACW species 7	7 x 2 =	14	_
5				FAC species 2	2 x 3 = _	6	_
	12=	Total Cover		· · · · ·	x 4 =	0	_
Herb Stratum (Plot size: 5 ft)	00	V	ODI	· —	x 5 = _	0	–
Leersia oryzoides Typha angustifolia	<u>60</u> 15	Yes No	OBL OBL	Column Totals: 11 Prevalence Index	12 (A)	123 1.10	_(B)
Scirpus cyperinus	15	No	OBL	Prevalence index	- D/A -	1.10	_
Symphyotrichum lateriflorum	7	No	FACW	Hydrophytic Vegeta	tion Indicators:		
5. Scirpus atrovirens	3	No	OBL	1 - Rapid Test for			
6.				X 2 - Dominance Te			
7.				X 3 - Prevalence In	dex is ≤3.0 ¹		
8				4 - Morphological			
9					ks or on a separ		
10	400	T 1 1 0		Problematic Hydr			,
Woody Vine Stratum (Plot size: 30 ft	100 =	Total Cover		¹ Indicators of hydric s be present, unless dis			must
Woody Vine Stratum (Plot size: 30 ft 1.)				turbed of proble	mauc.	
2.				Hydrophytic Vegetation			
		Total Cover		_	X No_		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			<u> </u>			
	,						

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-6	10YR 4/2	95	10YR 4/6	5	С	М	Loamy/Clayey	/ Pro	ominent redox cond	entrations
6-18	10YR 4/1	85	10YR 5/6	10	С	М	Loamy/Clayey	/		
			10YR 5/1	5	D	М				
1		. —— .								
	oncentration, D=Dep	oletion, RM	=Reduced Matrix, N	MS=Mas	ked San	d Grains			ore Lining, M=Mati	•
Hydric Soil I			Sandy Cla	wad Mat	riv (C1)				roblematic Hydric	Solls :
Histosol			Sandy Gle	-					e Redox (A16) nese Masses (F12)	
	ipedon (A2)		Sandy Red					•	nese masses (F12 <i>)</i> Material (F21)	
Black His			Stripped M Dark Surfa	-))				v Dark Surface (F2	2)
	Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10)	Loamy Mu		aral (E1)			-	in in Remarks)	۷)	
		Loamy Gle	-			—`	Julei (Exple	iii iii iteiliaiks)		
	Below Dark Surfac	e (A11)	X Depleted N	-						
	rk Surface (A12)	0 (/ (/)	Redox Da	`	,		³ India	cators of hyd	drophytic vegetatio	n and
	ucky Mineral (S1)		Depleted [` ')		-		
	cky Peat or Peat (S	3)	Redox De		` '	,	wetland hydrology must be present, unless disturbed or problematic.			
Restrictive L	ayer (if observed)	<u>:</u>	<u> </u>			T				
		-								
Type:										
	rn is revised from Mi								Yes X	.0, 2015
Depth (in Remarks: This data for Errata. (http://	m is revised from Mi //www.nrcs.usda.go						NRCS Field Indic			
Depth (in Remarks: This data for Errata. (http://	m is revised from Mi //www.nrcs.usda.go	v/Internet/F					NRCS Field Indic			
Depth (in Remarks: This data for Errata. (http://	m is revised from Mi //www.nrcs.usda.go	v/Internet/F					NRCS Field Indic	ators of Hyd	dric Soils, Version 7	.0, 2015
Depth (in Remarks: This data for Errata. (http://www.defand.com/de	m is revised from Mi //www.nrcs.usda.go GY drology Indicators:	v/Internet/F	SE_DOCUMENTS	apply)	2p2_0512	293.docx	NRCS Field Indic) Secc	ators of Hyd	dric Soils, Version 7	.0, 2015
Depth (in Remarks: This data for Errata. (http://www.primary.lndic_X_Surface)	m is revised from Mi //www.nrcs.usda.go GY drology Indicators: ators (minimum of contractions)	v/Internet/F	SE_DOCUMENTS red; check all that a Water-Sta	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indic) Seco	ators of Hyc ndary Indica Surface Soil	dric Soils, Version 7	.0, 2015
Depth (in Remarks: This data for Errata. (http://www.primary.lndic_X_Surface \text{V_Hybrid}	m is revised from Mi //www.nrcs.usda.go GY drology Indicators: eators (minimum of of Water (A1)	v/Internet/F	red; check all that a	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indic) Secc	ndary Indica Surface Soil Drainage Pa	ators (minimum of the Cracks (B6)	.0, 2015
Depth (in Remarks: This data for Errata. (http://www.primary.lndic.x. Surface V.X. High Wat.x. Saturatio	GY drology Indicators: eators (minimum of o	v/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indic) Secc	ndary Indica Surface Soil Orainage Pa Ory-Season	ators (minimum of the Cracks (B6) otterns (B10) Water Table (C2)	.0, 2015
Depth (in Remarks: This data for Errata. (http://www.primary.lndic_X_Surface_V_X_High_Wata_X_Saturatio_Water_Min.)	GY drology Indicators: eators (minimum of of Nater (A1) ter Table (A2) n (A3) arks (B1)	v/Internet/F	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 sulfide (ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indic) Seco	ndary Indica Surface Soil Drainage Pa Dry-Season Crayfish Bur	ators (minimum of the Cracks (B6) terms (B10) Water Table (C2) trows (C8)	.0, 2015 wo require
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Depth (in Remarks: This data for Errata. (http://www.primary.lndic.x. Surface w. X. High Wat X. Saturatio Water Ma. Sedimen Drift Dep. Algal Ma	GY drology Indicators: eators (minimum of of Mater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	v/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Farer Presence Recent Iro	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduce	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ction in Ti) Living Ro	Second Se	ndary Indica Surface Soil Orainage Pa Ory-Season Crayfish Bur Saturation V Stunted or S Geomorphic	ators (minimum of the Cracks (B6) of the Cracks (B10) water Table (C2) frows (C8) distressed Plants (D1) of the Position (D2)	wo require
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	ject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Dat	e: <u>9/20/</u>	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	. Highway De	epartment		State: IN	Sampling Poir	nt: Di	P 14
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	inge: Section 07, Town	ship 31 N, Rang	je 13 East	t
Landform (hillside, terrace, etc.): Tillplain			Local relief (concave, convex, none):	Cocave		
Slope (%): 0 Lat: 41.159621			•		Datum: WGS_1	984	
Soil Map Unit Name: Blount loam, interlobate moraines	s. 0 to 2 perc				fication: N/A		
Are climatic / hydrologic conditions on the site typical for			Yes X		_	:)	
Are Vegetation , Soil , or Hydrology s		•				•	
Are Vegetation , Soil , or Hydrology r							_
SUMMARY OF FINDINGS – Attach site ma						eatures	, etc.
			Sampled A		No		
Wetland Hydrology Present? Yes X No	<u> </u>						
Remarks: DP 14 is representative Wetland 7-B.							
VEGETATION – Use scientific names of pla	nts.						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wo	rksheet:		
1.				Number of Dominant	•	0	(4)
2. 3.				Are OBL, FACW, or F		3	_(A)
1				Total Number of Dom Across All Strata:	inant Species	3	(B)
5.				Percent of Dominant	— Species That		_(D)
		Total Cover		Are OBL, FACW, or F	•	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)					_		- ` ′
1. Salix nigra	40	Yes	OBL	Prevalence Index wo	orksheet:		
2. Populus deltoides	10	No	FAC	Total % Cover of	: Mult	iply by:	_
3. Morus alba	2	No	FAC	· -	35 x 1 = _	135	_
4				· · ·	x 2 = _	0	_
5		Tatal Cause		· -	2 x3=_	36	_
<u>Herb Stratum</u> (Plot size: 5 ft)	52	=Total Cover		· -	x 4 = x 5 =	20 0	-
1. Leersia oryzoides	35	Yes	OBL		52 (A)	191	(B)
Ludwigia palustris	30	Yes	OBL	Prevalence Index		1.26	_(_)
3. Scirpus cyperinus	15	No	OBL				_
4. Carex frankii	10	No	OBL	Hydrophytic Vegeta	tion Indicators:		
5. Alisma subcordatum	5	No	OBL	1 - Rapid Test for	Hydrophytic Ve	getation	
6. Symphyotrichum ericoides	5	No	FACU	X 2 - Dominance Te			
7				X 3 - Prevalence In			
8				4 - Morphological	। Adaptations		
9				Problematic Hydr	•		
10	100	Total Cover					,
Woody Vine Stratum (Plot size: 30 ft)		Total Cover		¹ Indicators of hydric s be present, unless dis			must
1.					· · · · · ·		
2.				Hydrophytic Vegetation			
		Total Cover		_	X No_		
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4	10YR 4/1	95	10YR 4/6	5	С	М	Loamy/Clayey	Prominent redox concentrations		
4-18	10YR 4/1	100					Sandy			
								_		
		· —— ·						_		
		· ·								
								_		
1										
	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		on: PL=Pore Lining, M=Matrix.		
Hydric Soil			Candy Cla	vad Mat	riv (C4)			tors for Problematic Hydric Soils ³ :		
Histosol			Sandy Gle Sandy Red	-				past Prairie Redox (A16)		
	oipedon (A2)		Stripped M	, ,				n-Manganese Masses (F12) ed Parent Material (F21)		
Black Hi	en Sulfide (A4)		Dark Surfa	-))			ery Shallow Dark Surface (F22)		
	d Layers (A5)		Loamy Mu		aral (E1)			her (Explain in Remarks)		
	ick (A10)		Loamy Gle	-				nei (Expiain in Nemarks)		
	d Below Dark Surface	- (Δ11)	X Depleted N	•	• •					
	ark Surface (A12)	<i>(</i> , (, , ,)	Redox Dai		-		³ Indica	itors of hydrophytic vegetation and		
	fucky Mineral (S1)		Depleted [, ,)		etland hydrology must be present,		
	icky Peat or Peat (S3	3)	Redox De		` '		unless disturbed or problematic.			
Restrictive	Layer (if observed)							·		
Type:	,									
• • •								V		
This data for								ent? Yes X No		
Remarks: This data for Errata. (http:	m is revised from Mi						NRCS Field Indica			
Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	//Internet/F					NRCS Field Indica			
Remarks: This data for Errata. (http: HYDROLO Wetland Hy	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators:	//Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indica	ors of Hydric Soils, Version 7.0, 2015		
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India	orm is revised from Mi c://www.nrcs.usda.gov DGY drology Indicators: cators (minimum of co	//Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicar) Secon	ors of Hydric Soils, Version 7.0, 2015 dary Indicators (minimum of two require		
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Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface X High Wa X Saturation	OGY drology Indicators: cators (minimum of color (Mater (A1)) tter Table (A2) on (A3)	//Internet/F	ired; check all that a Water-Stal Aquatic Fa True Aqua	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicators Secon Do Do	dary Indicators (minimum of two require urface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2)		
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface X High Watan Mater M	OGY drology Indicators: cators (minimum of c Water (A1) iter Table (A2) on (A3) larks (B1)	//Internet/F	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicar) Secon Di Di Co	dary Indicators (minimum of two require or soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)		
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface X High Wa X Saturation Water M Sedimer	orm is revised from Mic.//www.nrcs.usda.gov OGY drology Indicators: cators (minimum of company) atter (A1) atter Table (A2) on (A3) arks (B1) att Deposits (B2)	//Internet/F	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1 eres on) Living Ro	Secon	dary Indicators (minimum of two require urface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)		
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Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface X High Wa X Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	orm is revised from Mi ///www.nrcs.usda.gov OGY drology Indicators: cators (minimum of complete (A2) on (A3) larks (B1) nt Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial I // Vegetated Concave //vations: ler Present? // Present? // Ye // Iresent? // Y	magery (Bes Xes X	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on lettion in Title (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secon	dary Indicators (minimum of two require urface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) ecomorphic Position (D2) AC-Neutral Test (D5)		
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface X High Wa X Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicators: cators (minimum of of Mater (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial I of Vegetated Concave vations: are Present? Present? Yellogy Yellog	magery (Bes Xes X	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on lettion in Title (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secon	dary Indicators (minimum of two require urface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) ecomorphic Position (D2) AC-Neutral Test (D5)		
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface X High Wa X Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	orm is revised from Mi ///www.nrcs.usda.gov OGY drology Indicators: cators (minimum of complete (A2) on (A3) larks (B1) nt Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial I // Vegetated Concave //vations: ler Present? // Present? // Ye // Iresent? // Y	magery (Bes Xes X	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on lettion in Title (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secon	dary Indicators (minimum of two require urface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) ecomorphic Position (D2) AC-Neutral Test (D5)		

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	ject	City/Cou	ınty: Fort Way	ne/Allen	Samp	oling Date:	9/20/202	2
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	N Samp	ling Point:	DP 15	5
Investigator(s): Leigh Stevenson and Cameron Schuler	٢	Section, T	Гownship, Ran	ge: Section 07,	Township 31	N, Range 1	3 East	
Landform (hillside, terrace, etc.): Tillplain			Local relief (co	oncave, convex, n	one): Convex			
Slope (%): 0.5 Lat: 41.159679		Long: -	85.106278		Datum:	WGS_1984	1	
Soil Map Unit Name: Blount loam, interlobate moraines	s, 0 to 2 perc	ent slopes (B	mA)	NWI	classification:	N/A		
Are climatic / hydrologic conditions on the site typical for	or this time of	f year?	Yes X	No (If n	io, explain in F	– Remarks.)		_
Are Vegetation, Soil, or Hydrology	significantly o	disturbed? F	Are "Normal Ci	rcumstances" pre	esent? Yes	X No		
Are Vegetation, Soil, or Hydrology	naturally prol	olematic? ((If needed, exp	lain any answers	in Remarks.)	_	_	
SUMMARY OF FINDINGS – Attach site ma	ap showin	ıg samplin	ıg point loc	ations, trans	ects, impo	rtant fea	tures, et	c.
Hydrophytic Vegetation Present? Yes No	o X	Is the	e Sampled Are	ea				
	o X		n a Wetland?		No	Х		
Wetland Hydrology Present? Yes No	o <u>X</u>							
Remarks:	a Wetland 7	^ \Metland 7	Z R and Wetla	nd Ω				
DP 15 is representative of the upland area surroundin	g welland r-	·A, Welland r	-D, aliu vveuai	na o.				
L VEGETATION – Use scientific names of pla								
VEGETATION COS CONSTITUTO S. P	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Tes	st worksheet	:		
1.				Number of Dom		That		
2.				Are OBL, FACW			1 (A))
3. 4.				Total Number of Across All Strata		ecies	2 (B)	,
5.				Percent of Domi		That	<u>-</u> ` `	,
	:	=Total Cover		Are OBL, FACW	•).0% (A	/B)
Sapling/Shrub Stratum (Plot size: 15 ft)		-			-		
1.				Prevalence Ind				
2.				Total % Co		Multiply		
3				OBL species FACW species		x 1 =	4	
5.				FAC species			20	
	 ,	=Total Cover		FACU species			232	
Herb Stratum (Plot size: 5 ft)				UPL species		x 5 =	0	
Schedonorus arundinaceus	50	Yes	FACU	Column Totals:	100 (A	٦) 3	856 (B))
2. Poa pratensis	40	Yes	FAC	Prevalence Ir	ndex = B/A =	3.56		
3. Cirsium discolor	8	No	FACU					
4. Carex annectens	2	No	FACW	Hydrophytic Ve	_			
5.					est for Hydrop	, ,	ation	
6.					nce Test is >5 nce Index is ≤3			
7 8.					ogical Adapta		ide suppor	rtina
9.					emarks or on			פיייו
10.				Problematic	: Hydrophytic	Vegetation ¹	(Explain)	
	100	=Total Cover		¹ Indicators of hy	dric soil and v	vetland hyd	rology mus	st
Woody Vine Stratum (Plot size: 30 ft)		-	be present, unle				
1.				Hydrophytic				
2		T 1:10ava		Vegetation	• •	**- V		
		=Total Cover		Present?	Yes	No X	_	
Remarks: (Include photo numbers here or on a separ	rate sheet.)							

Profile Desc	ription: (Describe	to the dept				tor or o	confirm the absence o	of indicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	i
0-8	10YR 3/2	100					Loamy/Clayey		
8-14	10YR 3/2	90	10YR 5/3	10	С	М	Loamy/Clayey		
14-18	10YR 4/1	85	10YR 6/1	10	D	M	Loamy/Clayey		
			10YR 6/6	5	С	М		Prominent redox cor	ncentrations
			_				<u> </u>		
¹ Type: C=Cc	oncentration, D=Dep	letion RM=	Reduced Matrix M	JS=Mas	ked Sand		² l ocation:	PL=Pore Lining, M=Ma	atrix
Hydric Soil I		iotion, rtivi	reduced Matrix, I	vio ivido	ikou ourie	- Oranic		s for Problematic Hydr	
Histosol (Sandy Gle	yed Mat	rix (S4)			t Prairie Redox (A16)	
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iron-N	Manganese Masses (F12	<u>'</u>)
Black His	stic (A3)		Stripped M	1atrix (S	6)		Red F	Parent Material (F21)	
Hydroger	n Sulfide (A4)		Dark Surfa	ace (S7)			Very S	Shallow Dark Surface (F	22)
Stratified	Layers (A5)		Loamy Mu	cky Min	eral (F1)		Other	(Explain in Remarks)	
2 cm Mu	ck (A10)		Loamy Gle	eyed Ma	trix (F2)				
Depleted	Below Dark Surface	e (A11)	Depleted N	Иatrix (F	3)				
Thick Da	rk Surface (A12)		Redox Da	rk Surfac	ce (F6)		³ Indicators	s of hydrophytic vegetati	on and
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7)		wetlar	nd hydrology must be pr	esent,
5 cm Mud	cky Peat or Peat (S3)	Redox De	pression	s (F8)		unles	s disturbed or problemat	ic.
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present	? Yes	No X
Remarks:									
								of Hydric Soils, Version	7.0, 2015
Errata. (http:/	//www.nrcs.usda.gov	/Internet/FS	SE_DOCUMENTS	/nrcs142	2p2_0512	293.doc	x)		
LIVEROLO	CV								
HYDROLO									
_	drology Indicators:						0 1		
	ators (minimum of o	ne is require			(DO)			y Indicators (minimum of	two required)
	Water (A1)		Water-Sta		, ,			ce Soil Cracks (B6)	
	ter Table (A2)		Aquatic Fa True Aqua	`	,			age Patterns (B10)	
Saturatio Water Ma			Hydrogen		` '	١		season Water Table (C2) ish Burrows (C8)	
	t Deposits (B2)		Oxidized F					ation Visible on Aerial In	nagery (CQ)
	osits (B3)		Presence			_		ed or Stressed Plants (D	
	t or Crust (B4)		Recent Iro		`	,		norphic Position (D2)	1)
	osits (B5)		Thin Muck			iica ooi	• • —	Neutral Test (D5)	
	on Visible on Aerial I	magery (R7)			` '			rvediai rest (D5)	
	Vegetated Concave								
Field Observ			<u> </u>						
Surface Water		s	No X	Depth (i	nches).				
Water Table				Depth (i	_				
Saturation Pr				Depth (i	_		Wetland Hydrolog	y Present? Yes	No X
(includes cap		_	<u> </u>	Dopui (i	_		Trottana riyarolog		<u> </u>
	corded Data (stream	gauge, moi	nitoring well. aeria	l photos	, previous	s inspec	ctions), if available:		
	(3111	5 5-,	J, acria	,	, ,	,500	,,		
Remarks:									

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Dat	te: <u>9/20/</u>	2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	Sampling Poi	nt: D	P 16
Investigator(s): Leigh Stevenson and Cameron Schule	r	Section, T	ownship, Ra	ange: Section 07, Town	ship 31 N, Ranç	je 13 East	t
Landform (hillside, terrace, etc.): Tillplain		I	Local relief (d	concave, convex, none):	Concave		
Slope (%):0 Lat: 41.159708		Long:	85.106191		Datum: WGS_1	984	
Soil Map Unit Name: Blount loam, interlobate moraine	s, 0 to 2 perc	ent slopes (Bi	mA)	NWI classit	fication: N/A		
Are climatic / hydrologic conditions on the site typical for	or this time of	year?	Yes X	No (If no, exp	olain in Remarks		
Are Vegetation , Soil , or Hydrology	significantly o	listurbed? A	re "Normal (Circumstances" present?	Yes X	No	
Are Vegetation , Soil , or Hydrology	naturally prob	olematic? (If needed, ex	plain any answers in Re	marks.)		_
SUMMARY OF FINDINGS – Attach site ma	ap showin	g samplin	g point lo	cations, transects	, important f	eatures	, etc.
<u>——</u>	o		Sampled A		No		
Remarks:							
DP 16 is representative of Wetland 8.							
VEGETATION – Use scientific names of pla							
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1				Number of Dominant			
2				Are OBL, FACW, or F	•	2	(A)
3.				Total Number of Dom	inant Species	_	<i>(</i> =)
4.				Across All Strata:	_	2	_(B)
5		Total Cover		Percent of Dominant : Are OBL, FACW, or F	•	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)	Total Covol		7.10 052, 17.011, 611		100.070	_(,,,,,
1. Salix nigra	3	No	OBL	Prevalence Index wo	rksheet:		
2				Total % Cover of	: Mult	tiply by:	_
3					3 x1=_	73	_
4 5.				FACW species 0 FAC species 3		90	-
J	3	Total Cover		FACU species (0	-
Herb Stratum (Plot size: 5 ft)				· -) x 5 =	0	-
Typha angustifolia	60	Yes	OBL	Column Totals: 10)3 (A)	163	(B)
2. Poa pratensis	30	Yes	FAC	Prevalence Index	= B/A =1	1.58	_
3. Carex frankii	5	No No	OBL	The december 41 a Manadas			
Epilobium coloratum 5.	5	No	OBL	Hydrophytic Vegeta 1 - Rapid Test for			
6.				X 2 - Dominance Te		gotation	
7.				X 3 - Prevalence In			
8				4 - Morphological			
9					s or on a separa		
10	100	Total Cavar		Problematic Hydr			•
Woody Vine Stratum (Plot size: 30 ft	100 =	=Total Cover		¹ Indicators of hydric s be present, unless dis			must
1	,			,	turbed or proble	mado.	
2.				Hydrophytic Vegetation			
		Total Cover		•	X No_		
Remarks: (Include photo numbers here or on a separate	rate sheet.)						

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	100					Loamy/Clayey	
6-13	10YR 3/1	93	10YR 4/6	7	С	М	Loamy/Clayey	
13-18	10YR 5/1	90	10YR 5/6	10	С	М	Loamy/Clayey	
							, , ,	
		- -	_				_	
¹ Type: C=C	oncentration, D=De	plotion DM	-Paduaad Matrix N		kad Sana	Croins	² l coatio	n: PL=Pore Lining, M=Matrix.
		pietion, ixivi	-Neduced Matrix, I	vio-ivias	Keu Sanc	Giailis		ors for Problematic Hydric Soils ³ :
Hydric Soil Indicators: Histosol (A1)			Sandy Gleyed Matrix (S4)				Coast Prairie Redox (A16)	
	ipedon (A2)			Sandy Redox (S5)			Iron-Manganese Masses (F12)	
Black His				Stripped Matrix (S6)			Red Parent Material (F21)	
	n Sulfide (A4)		Dark Surfa	-	•		Very Shallow Dark Surface (F22)	
Stratified	Layers (A5)		Loamy Mu	Loamy Mucky Mineral (F1)			Othe	er (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Ma	trix (F2)			
Depleted	Below Dark Surfac	ce (A11)	Depleted I	Matrix (F	3)			
Thick Da	rk Surface (A12)		X Redox Dark Surface (F6)				³ Indicators of hydrophytic vegetation and	
Sandy M	ucky Mineral (S1)		Depleted Dark Surface (F7)				wetland hydrology must be present,	
5 cm Mucky Peat or Peat (S3)			Redox Depressions (F8)				unless disturbed or problematic.	
Restrictive I	Layer (if observed):						
Type:								
Depth (ir Remarks: This data for	<u> </u>							rs of Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http:	m is revised from N //www.nrcs.usda.go						NRCS Field Indicator	
Depth (in Remarks: This data for Errata. (http:	m is revised from M //www.nrcs.usda.go	ov/Internet/F					NRCS Field Indicator	
Depth (in Remarks: This data for Errata. (http://www.ht	m is revised from M //www.nrcs.usda.go	ov/Internet/F	SE_DOCUMENTS	6/nrcs142			NRCS Field Indicator	rs of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http://www.defand.com/de	m is revised from M //www.nrcs.usda.go PGY drology Indicators cators (minimum of	ov/Internet/F	SE_DOCUMENTS	apply)	2p2_0512		NRCS Field Indicator) Seconda	rs of Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India X Surface	m is revised from M //www.nrcs.usda.go PGY drology Indicators cators (minimum of Water (A1)	ov/Internet/F	SE_DOCUMENTS	apply) ined Lea	ves (B9)		NRCS Field Indicator) Seconda Surf	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hydel Primary India X Surface V X High Wa	m is revised from M //www.nrcs.usda.go GY drology Indicators cators (minimum of Water (A1) ter Table (A2)	ov/Internet/F	red; check all that a water-Sta	apply) ined Lea	ves (B9)		NRCS Field Indicator) SecondaSurf	ary Indicators (minimum of two required acce Soil Cracks (B6) inage Patterns (B10)
Depth (in Remarks: This data for Errata. (http://www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndic//www.communication.com/mary.lndication.com/mary.ln	m is revised from M //www.nrcs.usda.go GGY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3)	ov/Internet/F	red; check all that a water-Sta	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicator) Seconda Surf Drai Dry	ary Indicators (minimum of two require face Soil Cracks (B6) Inage Patterns (B10) Season Water Table (C2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary Indic X Surface V X High Wa X Saturatio Water M	m is revised from M//www.nrcs.usda.go GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)	ov/Internet/F	red; check all that a Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1 Sulfide (ves (B9) 3) s (B14) Odor (C1)	293.docx	NRCS Field Indicator) Seconda Surf Drai Dry Cray	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary Indic X Surface V X High Wa X Saturatio Water M Sedimen	m is revised from M//www.nrcs.usda.go GY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2)	ov/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1) eres on l	293.docx	NRCS Field Indicator Seconda Surf Drai Dry Cray oots (C3) Satu	ary Indicators (minimum of two required acce Soil Cracks (B6) anage Patterns (B10) Season Water Table (C2) Wish Burrows (C8) Uration Visible on Aerial Imagery (C9)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary India X Surface X High Wa X Saturatio Water M Sedimen Drift Dep	m is revised from M//www.nrcs.usda.go GY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3)	ov/Internet/F	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1) deres on L) Living Ro	NRCS Field Indicator Seconda Surf Drai Dry Cray cots (C3) Satu	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) Juration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde X Surface of X High Wa X Saturation Water M Sediment Drift Dep Algal Ma	m is revised from M//www.nrcs.usda.go GGY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4)	ov/Internet/F	ired; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Farer Presence Recent Iro	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (etion in Til) Living Ro	Seconda	ary Indicators (minimum of two requires face Soil Cracks (B6) Inage Patterns (B10) ISeason Water Table (C2) Institution Visible on Aerial Imagery (C9) Inted or Stressed Plants (D1) Immorphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde X Surface of the surface o	m is revised from M//www.nrcs.usda.go GGY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	ov/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	aves (B9) 3) s (B14) Ddor (C1) eres on Led Iron (ction in Tile) Living Ro	Seconda	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) Juration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary Indic X Surface V X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation	m is revised from M//www.nrcs.usda.go GGY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4)	ov/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Facence Recent Iro Thin Muck	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat	oves (B9) 3) s (B14) Odor (C1) deres on Led Iron (ction in Tile (C7) a (D9)) Living Ro	Seconda	ary Indicators (minimum of two requires face Soil Cracks (B6) Inage Patterns (B10) ISeason Water Table (C2) Institution Visible on Aerial Imagery (C9) Inted or Stressed Plants (D1) Immorphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary Indic X Surface V X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation	m is revised from M//www.nrcs.usda.go GY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial	ov/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Faresence Recent Iro Thin Muck	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat	oves (B9) 3) s (B14) Odor (C1) deres on Led Iron (ction in Tile (C7) a (D9)) Living Ro	Seconda	ary Indicators (minimum of two require face Soil Cracks (B6) Inage Patterns (B10) ISeason Water Table (C2) Institute of Stressed Plants (D1) Inted or Stressed Plants (D1) Improprise of Soil Cracks (D2) Interpresentation (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde X Surface of X High Wa X Saturation Water M Sediment Drift Dep Algal Ma Iron Dep Inundation Sparsely	m is revised from M//www.nrcs.usda.go GGY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav vations:	ov/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Faresence Recent Iro Thin Muck	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat	eves (B9) 3) s (B14) Odor (C1) eres on Letton in Tile (C7) a (D9) Remarks)) Living Ro	Seconda	ary Indicators (minimum of two require face Soil Cracks (B6) Inage Patterns (B10) ISeason Water Table (C2) Institute of Stressed Plants (D1) Inted or Stressed Plants (D1) Improprise of Soil Cracks (D2) Interpresentation (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde X Surface of X High Wa X Saturation Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser	m is revised from M//www.nrcs.usda.go GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav vations: er Present?	ov/Internet/F	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or B8) Other (Exp.	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat	aves (B9) 3) s (B14) Ddor (C1) eres on Led Iron (ction in Till c(C7) a (D9) Remarks)) Living Ro C4) Illed Soils	Seconda	ary Indicators (minimum of two require face Soil Cracks (B6) Inage Patterns (B10) ISeason Water Table (C2) Institute of Stressed Plants (D1) Inted or Stressed Plants (D1) Improprise of Soil Cracks (D2) Interpresentation (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Yerimary Indic X Surface V X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obsert Surface Water	m is revised from M//www.nrcs.usda.go GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav vations: er Present? Y	Imagery (B'e Surface (I	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or B8) Other (Exp.	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F	eves (B9) 3) s (B14) Ddor (C1) deres on Letion in Tile (C7) a (D9) Remarks) nches): nches):) Living Ro C4) Illed Soils	Seconda	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary Indic X Surface V X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water Water Table	m is revised from M//www.nrcs.usda.go IGY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial Vegetated Concav vations: er Present? Present? Y	Imagery (B'e Surface (I	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck To Gauge or Other (Exp. No	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat blain in F	eves (B9) 3) s (B14) Ddor (C1) deres on Letion in Tile (C7) a (D9) Remarks) nches): nches):) Living Ro C4) Illed Soils	Seconda Surf Drai Dry Cra Stur Stur Stur Stur Stur Stur Stur Stur	ary Indicators (minimum of two requires face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde X Surface V X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Water Water Table Saturation Pe (includes cap	m is revised from M//www.nrcs.usda.go IGY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial Vegetated Concav vations: er Present? Present? Y	Imagery (B'e Surface (I	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp No No No No No No True No Gauge or No No True No	apply) ined Lea auna (B1 aura (B1 sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (ction in Tile (C7) a (D9) Remarks) nches):nches):nches):) Living Ro C4) Illed Soils	Seconda Surf Drai Dry Crat Stur Stur Stur Stur Stur Stur Stur FAC	ary Indicators (minimum of two requires face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde X Surface V X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Water Water Table Saturation Pe (includes cap	m is revised from M//www.nrcs.usda.go GGY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav vations: er Present? Present? Y resent? Y resent? Y resent? Y resent?	Imagery (B'e Surface (I	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp No No No No No No True No Gauge or No No True No	apply) ined Lea auna (B1 aura (B1 sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (ction in Tile (C7) a (D9) Remarks) nches):nches):nches):) Living Ro C4) Illed Soils	Seconda Surf Drai Dry Crat Stur Stur Stur Stur Stur Stur Stur FAC	ary Indicators (minimum of two requires face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ect	City/Cour	nty: Fort Wa	ayne/Allen	Sampling Dat	te: 9/20/	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	epartment		State: IN	Sampling Poi	nt: D	P 17
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	inge: Section 07, Town	ship 31 N, Ranç	je 13 East	t
Landform (hillside, terrace, etc.): Tillplain		l	_ocal relief (o	concave, convex, none):	Concave		
Slope (%):0 Lat: <u>41.160518</u>		Long:{	35.105740		Datum: WGS_1	1984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	t slopes, ero	ded (MrB2)		NWI classit	fication: N/A		
Are climatic / hydrologic conditions on the site typical fo	r this time of	year?	Yes X	No (If no, exp	olain in Remarks	S.)	
Are Vegetation , Soil , or Hydrology s	ignificantly o	disturbed? A	re "Normal 0	 Circumstances" present?	Yes X	No	
Are Vegetation, Soil, or Hydrologyn	aturally prob	olematic? (I	f needed, ex	plain any answers in Re	marks.)	·	_
SUMMARY OF FINDINGS – Attach site ma						eatures	, etc.
			Sampled A		No		
Wetland Hydrology Present? Yes X No							
Remarks: DP 17 is representative of Wetland 9.							
VEGETATION – Use scientific names of plan	nts.						
Tara Obraham (District 00 ft)	Absolute	Dominant	Indicator	Barriera Tarakana	-ll4-		
Tree Stratum (Plot size: 30 ft) 1.	% Cover	Species?	Status	Dominance Test wo			
2.				Number of Dominant Are OBL, FACW, or F	•	2	(A)
3.				Total Number of Dom	inant Species		_
4				Across All Strata:	· _	2	_(B)
5	=	Total Cover		Percent of Dominant and Are OBL, FACW, or F	•	100.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)							
1.	3	No		Prevalence Index wo			
2. 3.				Total % Cover of OBL species 2	5 x 1 =	tiply by: 25	_
4.				·	5 x2=	10	-
5.				FAC species 5		150	_
	3 =	Total Cover		FACU species () x 4 =	0	_
Herb Stratum (Plot size: 5 ft)				UPL species () x 5 = _	0	_
Panicum capillare	40	Yes	FAC		0 (A)	185	_(B)
2. Eleocharis palustris	25	Yes	OBL	Prevalence Index	= B/A =2	2.31	_
3. Poa pratensis		No No	FAC	The december 41 a Manadas			
Echinochloa crus-galli 5.	5	<u>No</u>	FACW	Hydrophytic Vegetate 1 - Rapid Test for			
6.				X 2 - Dominance Te		getation	
7.				X 3 - Prevalence Inc			
8.				4 - Morphological		rovide sur	pporting
9.				data in Remark	s or on a separ	ate sheet)	
10				Problematic Hydr	ophytic Vegetat	ion¹ (Expla	ain)
Woody Vine Stratum (Plot size: 30 ft)	80 =	=Total Cover		¹ Indicators of hydric s be present, unless dis			must
1.					2 5. proble		
2.				Hydrophytic Vegetation			
		Total Cover		_	X No_		
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

		to the dep				tor or c	confirm the absence of	indicators.)
Depth	Matrix			x Featur		. 2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/1	100					Loamy/Clayey	
4-13	10YR 4/1	93	10YR 5/6	7	C	M	Loamy/Clayey	
13-18	10YR 5/1	92	10YR 5/6	8	С	M	Loamy/Clayey	
		. <u> </u>						
			_					
¹ Type: C=C	oncentration, D=Dep	oletion RM:	=Reduced Matrix N	//S=Mas	ked Sand	Grains	² l ocation	PL=Pore Lining, M=Matrix.
Hydric Soil		nouon, run	Troduced Matrix, I	vic mac	ntou ourie	- Oranic		for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	yed Mat	trix (S4)			Prairie Redox (A16)
	pipedon (A2)		Sandy Red					anganese Masses (F12)
Black Hi	stic (A3)		Stripped M	latrix (S	6)		Red Pa	arent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ce (S7)			Very S	hallow Dark Surface (F22)
Stratified	d Layers (A5)		Loamy Mu	cky Min	eral (F1)		Other ((Explain in Remarks)
2 cm Mu	ıck (A10)		Loamy Gle	eyed Ma	trix (F2)			
X Depleted	d Below Dark Surface	e (A11)	X Depleted N	Лatrix (F	3)			
Thick Da	ark Surface (A12)		Redox Dar	rk Surfa	ce (F6)		³ Indicators	of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted [` '			d hydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)	Redox Dep	pression	ıs (F8)		unless	disturbed or problematic.
Type:	Layer (if observed)	:						
Depth (ir	nches):						Hydric Soil Present?	Yes X No
Епата. (пцр.	://www.nrcs.usda.go	v/internet/F	SE_DOCOMENTS	/IIICS 14.	202_0512	293.UOC	×)	
HYDROLC	OGY							
	drology Indicators:							
_	cators (minimum of c		red: check all that a	annly)			Secondary	Indicators (minimum of two required)
-	Water (A1)	one is requi	Water-Stai		eves (B9)			e Soil Cracks (B6)
	iter Table (A2)		Aguatic Fa					ge Patterns (B10)
X Saturation	` ,		True Aqua	`	,			eason Water Table (C2)
	arks (B1)		Hydrogen)		sh Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosph	neres on L	_iving R	oots (C3) Satura	tion Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Redu	ced Iron (C4)	Stunte	d or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduc	ction in Ti	lled Soil	` ′ —	orphic Position (D2)
	oosits (B5)		Thin Muck	Surface	e (C7)		X FAC-N	leutral Test (D5)
	on Visible on Aerial I							
Sparsely	/ Vegetated Concave	e Surface (l	38)Other (Exp	olain in F	Remarks)		1	
Field Obser								
Surface Wat		es X		. ,	nches):	1		
Water Table					nches):	0	Matlemal Hudwalam	Process V
Saturation P		es X	No	Depth (i	nches):	0	Wetland Hydrology	Present? Yes X No
(includes ca	piliary fringe) corded Data (stream	n dalide m	onitoring well serie	Inhotos	nrevious	s ineneo	tions) if available:	
Describe Ne		. gauge, ill	Jincomig well, aella	. priotos	, previous	- mapec	aono, ii avaliabie.	
Remarks:								

Midwest Region

Project/Site: Clinton Stree	et Roadway Improve	ement Proje	ect	City/Cou	nty: Fort Wa	yne/Allen	s	ampling Dat	e: 9/20	/2022
Applicant/Owner: City	of Fort Wayne and	l Allen Co. I	Highway D	epartment		State:	IN S	ampling Poi	nt: D	P 18
Investigator(s): Leigh Ster	venson and Camero	n Schuler		Section, 7	Гownship, Ra	nge: Section 0	7, Township	31 N, Rang	e 13 E	
Landform (hillside, terrace	e, etc.): <u>Hill</u>				Local relief (c	oncave, convex	, none): Cor	ıvex		
Slope (%):1_ Lat	t: 41.160495			Long: -	85.105766		Dat	um: <u>WGS_</u> 1	984	
Soil Map Unit Name: Gly	nwood silt loam, 2 to	o 6 percent	slopes, erc	ded (MrB2)		NW	/I classificat	ion: N/A		
Are climatic / hydrologic c	conditions on the site	e typical for	this time o	f year?	Yes X	No(l	f no, explain	in Remarks	.)	
Are Vegetation , Sc	oil , or Hydrolo	ogy si	gnificantly	disturbed? A	Are "Normal C	circumstances" p	oresent? '	Yes X	No	
Are Vegetation, Sc						plain any answe				_
SUMMARY OF FINE	<u> </u>				g point lo	cations, tran	sects, im	portant f	eatures	, etc.
Hydrophytic Vegetation	Present? Yes	No	Х	Is the	Sampled A	rea				
Hydric Soil Present?	Yes X			withi	n a Wetland?	Ye	s	No X		
Wetland Hydrology Pres	sent? Yes	No	X							
Remarks: DP 18 is representative	of the upland area of	currounding	Wotland 0							
DF 10 is representative	oi tile upialiu alea s	surrounding	vvelianu s	•						
VEGETATION - Use	e scientific name	es of plan	ts.							
T 01 1 (D)		`	Absolute	Dominant	Indicator					
Tree Stratum (Pl	lot size: 30 ft		% Cover	Species?	Status	Dominance 1				
2.						Number of Do Are OBL, FAC			1	(A)
3.	-					Total Number				- ` ′
4.						Across All Str			2	(B)
5						Percent of Do	minant Spe	cies That		
				=Total Cover		Are OBL, FAC	CW, or FAC:	_	50.0%	_(A/B)
Sapling/Shrub Stratum	(Plot size:	15 ft)				Prevalence li	aday wadka	hoot:		
1. 2.						Total % (iply by:	
3						OBL species	0	x 1 =	0	-
4.						FACW specie		x 2 =	0	_
5.						FAC species	40	x 3 =	120	-
				=Total Cover		FACU species	s 60	x 4 =	240	_
•	lot size: 5 ft)				UPL species	0	x 5 =	0	_
Schedonorus arundii	naceus		60	Yes	FACU	Column Totals		(A)	360	_(B)
2. Poa pratensis			40	Yes	FAC	Prevalence	Index = B/	A =3	3.60	_
3.						Herder of beatle	M	III		
4 5.						Hydrophytic	_	indicators: drophytic Ve		
6.							rest for Hyd ance Test is		getation	
							lence Index			
8.								is <u>⊒</u> 3.0 aptations¹ (P	rovide su	pporting
9.							•	on a separa		
10.						Problema	itic Hydroph	ytic Vegetati	on ¹ (Expl	ain)
			100	=Total Cover		1Indicators of				
Woody Vine Stratum	`	30 ft)				be present, ur				
1						Hydrophytic				
2						Vegetation			v	
		•	-	=Total Cover		Present?	Yes	No	<u>X</u>	
Remarks: (Include phote	o numbers here or o	on a separa	te sheet.)							

Depth	Matrix		Redo	x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	10YR 4/2	100					Loamy/Cla	yey		
8-18	10YR 4/2	93	10YR 4/6	7	_ C	M	Loamy/Cla	yey		
1										
	ncentration, D=Depl	etion, RM	Reduced Matrix, N	MS=Mas	ked Sand	d Grains			ore Lining, M=Ma	•
Hydric Soil I			0	1 1 1 1 - 4	······································		In		oblematic Hydri	c Soils":
Histosol (•		Sandy Gle	-			_	_	Redox (A16)	`
	pedon (A2)		Sandy Red				_	_	ese Masses (F12 Astoriol (F21))
Black His			Stripped M Dark Surfa	-	0)		_	Red Parent N		22)
	Sulfide (A4)				oral (E1)		_		Dark Surface (Fi n in Remarks)	22)
2 cm Muc	Layers (A5)		Loamy Mu Loamy Gle	-			_	_Otriei (Explai	II III Remarks)	
	Below Dark Surface	(Δ11)	X Depleted N	•	` '					
<u> </u>	k Surface (A12)	(7(11)	Redox Da	`	,		³ lr	ndicators of hyd	rophytic vegetation	on and
	ucky Mineral (S1)		Depleted [` '	1			ology must be pre	
	cky Peat or Peat (S3)	Redox De		` '			-	oed or problemati	
	ayer (if observed):			•	,	T			<u> </u>	
	ayer (ii observed).									
Type:										
	ches): n is revised from Mic //www.nrcs.usda.gov								Yes X	No 7.0, 2015
Depth (in Remarks: This data forr Errata. (http:/	n is revised from Mic /www.nrcs.usda.gov						NRCS Field Inc			
Depth (in Remarks:	n is revised from Mic /www.nrcs.usda.gov						NRCS Field Inc			
Depth (in Remarks: This data forr Errata. (http://	n is revised from Mic /www.nrcs.usda.gov						NRCS Field Inc			
Depth (in Remarks: This data forr Errata. (http://	m is revised from Mic /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o	/Internet/F	SE_DOCUMENTS	apply)	2p2_0512		NRCS Field Ind	dicators of Hydi	ric Soils, Version	7.0, 2015
Depth (in Remarks: This data forr Errata. (http://	m is revised from Mic/www.nrcs.usda.gov GY Irology Indicators: ators (minimum of or	/Internet/F	SE_DOCUMENTS red; check all that a Water-Sta	apply) ined Lea	2p2_0512		NRCS Field Ind	dicators of Hydica econdary Indica Surface Soil (ric Soils, Version tors (minimum of	7.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wat	m is revised from Mic/www.nrcs.usda.gov GY Irology Indicators: ators (minimum of or	/Internet/F	SE_DOCUMENTS red; check all that a Water-Sta Aquatic Fa	apply) ined Lea	2p2_0512 nves (B9) 3)		NRCS Field Ind	dicators of Hydi econdary Indica Surface Soil (Drainage Pat	tors (minimum of Cracks (B6) terns (B10)	7.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation	m is revised from Mic/www.nrcs.usda.gov	/Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1	aves (B9) 3) s (B14)	293.docx	NRCS Field Ind	econdary Indica Surface Soil (Drainage Pat Dry-Season \	tors (minimum of Cracks (B6) terns (B10) Nater Table (C2)	7.0, 2015
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Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ	m is revised from Mic /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) arks (B1) c Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial In Vegetated Concave //ations: er Present? Yes Present? Yes	nagery (B7 Surface (E	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or (88) Other (Exp.	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc on Reduc on Surface Well Dat Depth (i Depth (i	aves (B9) 3) s (B14) Odor (C1) neres on I ced Iron (ction in Ti e (C7) a (D9) Remarks) nches): _nches):) Living Ro	NRCS Field Ind	econdary Indica Surface Soil (Drainage Pat Dry-Season \ Crayfish Burr Saturation Vic Stunted or St Geomorphic FAC-Neutral	tors (minimum of Cracks (B6) terns (B10) Nater Table (C2) ows (C8) sible on Aerial Im ressed Plants (D Position (D2) Test (D5)	two require
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Midwest Region

Project/Site: Clinton S	Street Roadwa	y Improven	nent Proje	ect	City/Cou	nty: Fort Wa	ayne/Allen	S	ampling Da	te: 9/20	/2022
Applicant/Owner:	City of Fort Wa	ayne and A	Allen Co.	Highway D	epartment		State:	IN S	ampling Po	int: D	P 19
Investigator(s): Leigh	Stevenson and	d Cameron	Schuler		Section, T	Township, Ra	inge: Section 0	7, Township	31 N, Ran	ge 13 E	
Landform (hillside, ter	race, etc.): <u>Til</u>	llplain			!	Local relief (d	concave, convex	x, none): Cor	ncave		
Slope (%): 0	Lat: 41.1614	41			Long: -	85.104959		Dat	um: WGS_	1984	
Soil Map Unit Name:	Glynwood silt	loam, 2 to 6	6 percent	slopes, erc	ded (MrB2)		NV	VI classificat	ion: N/A		
Are climatic / hydrolog	jic conditions o	on the site t	typical for	this time o	f year?	Yes X	No (lf no, explair	in Remark	s.)	
Are Vegetation	, Soil, c	or Hydrolog	ysi	gnificantly	disturbed? A	Are "Normal 0	ا "Circumstances	present?	Yes X	No	_
Are Vegetation	, Soil , c	or Hydrolog	yn	aturally pro	blematic? (If needed, ex	plain any answe	ers in Remar	ks.)		
SUMMARY OF F	INDINGS –	Attach s	site ma	p showir	ng samplin	g point lo	cations, trar	nsects, in	portant	features	, etc.
Hydrophytic Vegetati	on Present?	Yes X	No		Is the	Sampled A	rea				
Hydric Soil Present?		Yes X				n a Wetland		s_X_	No		
Wetland Hydrology F	Present?	Yes X	_ No								
Remarks:	:£\\/-4	. 40									
DP 19 is representat	ive of vvetland	1 10.									
VEGETATION - (Ise scientif	ic names	of plan	ıts							
TEGETATION .			or plan	Absolute	Dominant	Indicator					
Tree Stratum	(Plot size:	30 ft	_)	% Cover	Species?	Status	Dominance ⁻	Test worksh	neet:		
1.							Number of Do			0	(4)
2. 3.							Are OBL, FA		-	2	_(A)
							Total Number Across All Str		it Species	2	(B)
5.							Percent of Do		cies That		_(-)
					=Total Cover		Are OBL, FA	•		100.0%	(A/B)
Sapling/Shrub Stratu	<u>m</u> (Plot	size:1	5 ft)								
1.							Prevalence I			10: 1 1	
2. 3.							OBL species	Cover of: 0	Mu x 1 =	Itiply by: 0	_
4.							FACW species	_	_	100	_
5.							FAC species		x 3 =	150	_
					=Total Cover		FACU specie	s 0	x 4 =	0	_
<u>Herb Stratum</u>	(Plot size:	5 ft	_)				UPL species		_ x 5 =	0	_
1. Echinochloa crus	-galli			50	Yes	FACW	Column Total		(A)	250	_(B)
 Poa pratensis 3. 				50	Yes	FAC	Prevalence	e Index = B/	A =	2.50	-
4							Hydrophytic	Vegetation	Indicators	:	
5.								Test for Hy			
6.							X 2 - Domir	nance Test i	s >50%		
7							<u>X</u> 3 - Preva				
8.								nological Ada Remarks o			
9 10.								atic Hydroph		•	
10				100	=Total Cover		¹ Indicators of				
Woody Vine Stratum	(Plot	size: 3	0 ft)				be present, u				must
1							Hydrophytic				
2							Vegetation				
			·	-	=Total Cover		Present?	Yes X	No_		
Remarks: (Include p	hoto numbers	here or on	a separa	te sheet.)							

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/1	100	, , , , ,				Loamy/Clayey	
7-18	10YR 5/1	95	10YR 5/6	5	С	M	Loamy/Clayey	
	_							
1	Same and the De De		—Daduard Matrix N	40-14			21 tion . D	I - Dana Linina M-Mahin
	Concentration, D=De I Indicators:	pietion, Rivi	=Reduced Matrix, N	/IS=IVIAS	ked Sand	Grains.		L=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histoso			Sandy Gle	ved Mat	rix (S4)			rairie Redox (A16)
	pipedon (A2)		Sandy Red	-				iganese Masses (F12)
	listic (A3)		Stripped M	, ,				ent Material (F21)
	en Sulfide (A4)		Dark Surfa	-	-,			allow Dark Surface (F22)
· ·	d Layers (A5)		Loamy Mu		eral (F1)			xplain in Remarks)
	uck (A10)		Loamy Gle	-				,
X Deplete	ed Below Dark Surfac	e (A11)	X Depleted N	-				
Thick D	ark Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicators of	hydrophytic vegetation and
Sandy I	Mucky Mineral (S1)		Depleted D	Oark Sur	face (F7))	wetland	hydrology must be present,
5 cm M	ucky Peat or Peat (S	3)	Redox De	oression	s (F8)		unless d	isturbed or problematic.
Restrictive	Layer (if observed	:						
Type:								
i ypc.								
Depth (Remarks: This data for	orm is revised from M://www.nrcs.usda.gc							Yes X No
Depth (Remarks: This data for Errata. (http://pubm.com/	orm is revised from M:://www.nrcs.usda.gc						NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://pubs.com/	orm is revised from Mo://www.nrcs.usda.gc	v/Internet/F					NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://pubm.com/	orm is revised from M c://www.nrcs.usda.gc DGY ydrology Indicators	v/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicators of	Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http://pub.com/ HYDROLO Wetland Hy Primary Ind	orm is revised from M :://www.nrcs.usda.go DGY ydrology Indicators icators (minimum of	v/Internet/F	rSE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicators of) Secondary Ir	Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind X Surface	orm is revised from Mo://www.nrcs.usda.gc	v/Internet/F	ired; check all that a	Apply)	ves (B9)	293.docx	NRCS Field Indicators of) Secondary Ir Surface	Hydric Soils, Version 7.0, 2015 adicators (minimum of two required Soil Cracks (B6)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind X Surface X High W	orm is revised from Mo://www.nrcs.usda.gc	v/Internet/F	ired; check all that a Water-Stai Aquatic Fa	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of) Secondary Ir Surface Drainage	Hydric Soils, Version 7.0, 2015 adicators (minimum of two required Soil Cracks (B6) Patterns (B10)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind X Surface X High W X Saturati	OGY ydrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3)	v/Internet/F	ired; check all that a Water-Stai Aquatic Fa True Aqua	apply) ined Lea iuna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicators of) Secondary Ir Surface Drainage Dry-Sea:	Hydric Soils, Version 7.0, 2015 adicators (minimum of two required Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind X Surface X High W X Saturati Water M	OGY ydrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1)	v/Internet/F	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ned Lea una (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicators of) Secondary Ir Surface Drainage Dry-Sea: Crayfish	Hydric Soils, Version 7.0, 2015 Indicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	ect	City/Cour	ity: Fort Wa	yne/Allen	Sampling Da	te: <u>9/20</u>	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Poi	nt: D	P 20
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	nge: Section 07, Town	ship 31 N, Ran	ge 13 E	
Landform (hillside, terrace, etc.): Tillplain		L	ocal relief (c	oncave, convex, none):	Convex		
Slope (%): 0.5 Lat: 41.161485		Long: <u>-</u> 8	5.104980		Datum: WGS_	1984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	slopes, eroo	ded (MrB2)		NWI classi	fication: N/A		
Are climatic / hydrologic conditions on the site typical for	this time of	year?	Yes X	No (If no, exp	plain in Remark	s.)	
Are Vegetation , Soil , or Hydrology si	gnificantly d	isturbed? A	re "Normal C	circumstances" present?	Yes X	No	
Are Vegetation, Soil, or Hydrologyna	aturally prob	lematic? (I	f needed, ex	plain any answers in Re	marks.)		
SUMMARY OF FINDINGS – Attach site ma						features	, etc.
Hydric Soil Present? Yes X No	X		Sampled Ar a Wetland?		No_X		
Remarks: DP 20 is representative of the upland area surrounding	Wetland 10).					
VEGETATION – Use scientific names of plan	its.						
7	Absolute	Dominant	Indicator				
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1.	% Cover	Species?	Status	Dominance Test wo			
2.				Number of Dominant Are OBL, FACW, or F	•	1	(A)
3.				Total Number of Dom	_		- ` ′
4.				Across All Strata:	-	2	(B)
5		Total Cover		Percent of Dominant Are OBL, FACW, or F	•	50.0%	(A/B)
<u>Sapling/Shrub Stratum</u> (Plot size: 15 ft)		Total Gover		7 (10 OBE, 17 (OVV, 01 1		00.070	_(/(D)
1.				Prevalence Index wo	orksheet:		
2.				Total % Cover of	: Mul	tiply by:	_
3.				· · · · · ·	x 1 = _	0	_
4					$\frac{0}{0}$ $x = 2$	120	_
5		Total Cover		FAC species 4 FACU species 6		120 240	_
<u>Herb Stratum</u> (Plot size: 5 ft)		10101 00101		· · ·) x5=	0	_
Schedonorus arundinaceus	60	Yes	FACU	-	00 (A)	360	(B)
2. Poa pratensis	40	Yes	FAC	Prevalence Index	= B/A =	3.60	_ _
3				Hydrophytic Vegeta	tion Indicators		
4 5.				1 - Rapid Test for			
6.				2 - Dominance Te		gotation	
7.				3 - Prevalence In			
8.				4 - Morphological			
9					ks or on a separ		
10	100 -	Total Cavan		Problematic Hydr			
Woody Vine Stratum (Plot size: 30 ft)	100 =	Total Cover		¹ Indicators of hydric s be present, unless dis			must
1				•	turbed or proble	ornado.	
2.				Hydrophytic Vegetation			
	=	Total Cover		Present? Yes	No_	X	
Remarks: (Include photo numbers here or on a separa	ite sheet.)						

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-11	10YR 4/2	95	10YR 4/4	5	С	М	Loamy/Clayey	Distinct redox concentrations
11-18	10YR 4/1	90	10YR 5/4	10	С	M	Loamy/Clayey	
							1	
			_					-
1			Dodoo d Matrico	10. 14			21 1	DI Dana Lining M Matrix
	ioncentration, D=Depl Indicators:	etion, Rivi	=Reduced Matrix, i	vi5=ivias	ked Sand	Grains.		rs for Problematic Hydric Soils ³ :
Histoso			Sandy Gle	ved Mat	rix (S4)			st Prairie Redox (A16)
	pipedon (A2)		Sandy Re	-	iix (O+)			Manganese Masses (F12)
	istic (A3)		Stripped M	, ,	3)			Parent Material (F21)
	en Sulfide (A4)		Dark Surfa	-	,			Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu		eral (F1)			er (Explain in Remarks)
	uck (A10)		Loamy Gle	-				(2.4
 Deplete	d Below Dark Surface	(A11)	X Depleted I	-				
Thick D	ark Surface (A12)	,	Redox Da	-	•		³ Indicato	rs of hydrophytic vegetation and
Sandy I	/lucky Mineral (S1)		Depleted I	Dark Sur	face (F7))	wetla	and hydrology must be present,
5 cm M	ucky Peat or Peat (S3)	Redox De	pression	s (F8)		unle	ss disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
. , , ,								
Depth (in Remarks: This data for								res of Hydric Soils, Version 7.0, 2015
Depth (i Remarks: This data fo Errata. (http	rm is revised from Mic ://www.nrcs.usda.gov						NRCS Field Indicator	
Depth (i Remarks: This data fo Errata. (http	rm is revised from Mic ://www.nrcs.usda.gov						NRCS Field Indicator	
Depth (i Remarks: This data fo Errata. (http	rm is revised from Mic ://www.nrcs.usda.gov						NRCS Field Indicator	
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Depth (i Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High Water N	OGY rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1)	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicator) Seconda Surfa Draii Dry- Cray	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
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US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	ect	City/Cour	nty: Fort Wa	ayne/Allen	Sampling Dat	e: <u>9/20/</u>	/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Poi	nt: D	P 21
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	inge: Section 07, Town	iship 31 N, Rang	je 13 E	
Landform (hillside, terrace, etc.): Tillplain		 	_ocal relief (c	concave, convex, none):	Concave		
Slope (%): 1 Lat: 41.162889			•	·	Datum: WGS_1	984	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slopes	. frequently				fication: N/A		
Are climatic / hydrologic conditions on the site typical for			Yes X			:)	
Are Vegetation , Soil , or Hydrology si						-	
Are Vegetation , Soil , or Hydrology na							_
SUMMARY OF FINDINGS – Attach site ma						eatures	s, etc.
			Sampled A		No		
Remarks: DP 21 is representative of Wetland 11-A. VEGETATION – Use scientific names of plan	ıts.						
·	Absolute	Dominant	Indicator				
	% Cover	Species?	Status	Dominance Test wo	rksheet:		
1. 2.				Number of Dominant	•	4	(A)
3				Are OBL, FACW, or F	_	-	_(^)
4.				Total Number of Dom Across All Strata:	inant Species	4	(B)
5.				Percent of Dominant	Species That		_ ` ′
		Total Cover		Are OBL, FACW, or F	•	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)							
Cornus racemosa	10	Yes	FAC	Prevalence Index wo			
2. Fraxinus pennsylvanica	10	Yes	FACW	Total % Cover of		iply by:	_
3. Ribes americanum	7	No No	FACW	· -	5 x1=_	35	_
Populus deltoides Acer negundo	<u>5</u> 5	No No	FAC FAC	· -	$\frac{2}{7}$ $x 2 = $	44 81	_
3. Auer riegundo		Total Cover	170		7 x 4 =	36	_
Herb Stratum (Plot size: 5 ft)	<u> </u>	Total Gover		·	3 x5=	15	_
1. Lythrum salicaria	20	Yes	OBL		6 (A)	211	(B)
2. Typha angustifolia	15	Yes	OBL	Prevalence Index	= B/A = 2	2.20	_
3. Rosa multiflora	7	No	FACU				
4. Euthamia graminifolia	5	No	FACW	Hydrophytic Vegeta			
5. Verbena urticifolia	5	No	FAC	1 - Rapid Test for	, , ,	getation	
6. <u>Triosteum aurantiacum</u>	3	No No	UPL	X 2 - Dominance Te			
7. Geum canadense	2	No No	FAC	X 3 - Prevalence In 4 - Morphological		lrovido ovu	nnartina
Parthenocissus quinquefolia 9.	2	<u>No</u>	FACU	· -	s or on a separ		
9. 10.				Problematic Hydr	·		
	 59 =	Total Cover		¹ Indicators of hydric s		` '	,
Woody Vine Stratum (Plot size: 30 ft)				be present, unless dis			must
1.				Hydrophytic			
2.				Vegetation			
	<u> </u>	Total Cover		Present? Yes	X No_		
Remarks: (Include photo numbers here or on a separa	ite sheet.)						

Depth	Matrix		Redo	x Featur	62			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	10YR 4/2	100					Loamy/Clayey	
1-3	10YR 6/1	95	10YR 5/6	5	С	М	Sandy	
3-18	10YR 4/1	95	10YR 4/6	5	С	М	Sandy	
,								
			_				•	
								-
1 _{Turner} C=C	oncentration, D=Depl	ation DM	-Daduard Matrix N		Lod Con		21 apptio	on: PL=Pore Lining, M=Matrix.
Hydric Soil		elion, ixivi-	-ixeduced iviatrix, i	vio-ivias	Keu Sanc	Giailis		ors for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	ved Mat	rix (S4)			ast Prairie Redox (A16)
	ipedon (A2)		X Sandy Red	-				n-Manganese Masses (F12)
Black His			Stripped M				— Re	d Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	-	,			ry Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	icky Min	eral (F1)		——Oth	ner (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Ma	trix (F2)			
Depleted	l Below Dark Surface	(A11)	Depleted I	Matrix (F	3)			
Thick Da	rk Surface (A12)		Redox Da	rk Surfac	ce (F6)		³ Indicat	ors of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7)	1	we	tland hydrology must be present,
5 cm Mu	cky Peat or Peat (S3)	Redox De	pression	s (F8)		unl	ess disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (ir Remarks: This data for	<u> </u>							ors of Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mic //www.nrcs.usda.gov						NRCS Field Indicate	
Depth (in Remarks: This data for Errata. (http:	m is revised from Mic //www.nrcs.usda.gov						NRCS Field Indicate	
Depth (in Remarks: This data for Errata. (http://www.ht	m is revised from Mid //www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	5/nrcs142			NRCS Field Indicato	ors of Hydric Soils, Version 7.0, 2015
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	ect	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Da	te: 9/20/	/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Poi	nt: D	P 22
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	inge: Section 07, Town	ship 31 N, Ran	ge 13 E	
Landform (hillside, terrace, etc.): Tillplain		 	_ocal relief (c	concave, convex, none):	Flat		
Slope (%): 1 Lat: 41.162902		Long: -	85.103999	· •	Datum: WGS_	1984	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slopes	s. frequently				fication: N/A		
Are climatic / hydrologic conditions on the site typical for			Yes X			s)	
Are Vegetation , Soil , or Hydrology si						•	
Are Vegetation, Soil, or Hydrologyn							_
SUMMARY OF FINDINGS – Attach site ma						features	s, etc.
Hydrophytic Vegetation Present? Yes No	Х	ls tho	Sampled A	roa	,		
	$\frac{X}{X}$		a Wetland		No X		
	X						
Remarks:							
DP 22 is representative of of the upland area surround	ing Wetland	11-A and We	etland 11-B.				
VEGETATION – Use scientific names of plan	nts.						
T 01 1 (D1 1) 00 5	Absolute	Dominant	Indicator				
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1.	% Cover	Species?	Status	Dominance Test wor			
2.				Number of Dominant Are OBL, FACW, or F	•	1	(A)
3.				Total Number of Dom	_		_` ′
4.				Across All Strata:	mant opecies	4	(B)
5.				Percent of Dominant	Species That		
_	=	Total Cover	·	Are OBL, FACW, or F	•	25.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)							
Pyrus calleryana	10	Yes	UPL	Prevalence Index wo			
2. Cornus drummondii	5	Yes	FAC	Total % Cover of		tiply by:	_
Elaeagnus umbellata 4.	5	Yes	UPL	OBL species C		0	_
5.				FAC species 1		30	_
o	20 =	Total Cover		FACU species 9		376	
Herb Stratum (Plot size: 5 ft)				UPL species 1		80	_
1. Dipsacus fullonum	85	Yes	FACU	Column Totals: 12	20 (A)	486	(B)
2. Schedonorus arundinaceus	9	No	FACU	Prevalence Index	= B/A =	4.05	_
3. Setaria pumila	5	No	FAC				
4. Setaria viridis	1	No	UPL	Hydrophytic Vegetat			
5.				1 - Rapid Test for		egetation	
6.				2 - Dominance Te 3 - Prevalence Inc			
7. 8.				4 - Morphological		Provide sui	nnortina
9.					s or on a separ		
10				Problematic Hydr	ophytic Vegetat	ion¹ (Expl	ain)
	100	Total Cover		¹ Indicators of hydric s			
Woody Vine Stratum (Plot size: 30 ft)				be present, unless dis			
1				Hydrophytic	·		
2				Vegetation			
	=	Total Cover		Present? Yes	No_	X	
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/2	100					Loamy/Clayey	
3-18	10YR 4/2	100					Loamy/Clayey	
	<u> </u>							
	<u> </u>							
1- 0.4							2, ,	N. D
	Concentration, D=Deple I Indicators:	etion, RIM	=Reduced Matrix, I	viS=Mas	ked Sand	Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histoso			Sandy Gle	ved Mat	rix (S4)			Prairie Redox (A16)
	pipedon (A2)		Sandy Re	-	11X (O-1)			nganese Masses (F12)
	listic (A3)		Stripped M	, ,	3)			rent Material (F21)
	en Sulfide (A4)		Dark Surfa	-	,			nallow Dark Surface (F22)
<u> </u>	ed Layers (A5)		Loamy Mu	` '	eral (F1)			Explain in Remarks)
	uck (A10)		Loamy Gle					,
	ed Below Dark Surface	(A11)	Depleted I	•	٠,			
 Thick D	ark Surface (A12)	,	Redox Da	`	,		³ Indicators of	of hydrophytic vegetation and
Sandy I	Mucky Mineral (S1)		Depleted I	Dark Sur	face (F7))	wetland	hydrology must be present,
5 cm M	ucky Peat or Peat (S3)		Redox De	pression	s (F8)		unless	disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Remarks: This data fo	orm is revised from Mid							Yes No >
Remarks: This data fo Errata. (http	orm is revised from Mid o://www.nrcs.usda.gov/						NRCS Field Indicators o	
Remarks: This data fo Errata. (http	orm is revised from Mid o://www.nrcs.usda.gov/						NRCS Field Indicators o	
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	ject	City/Cou	nty: Fort Wa	ayne/Allen	Samplir	ng Date:	9/20/2	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	. Highway De	epartment		State: IN	Samplin	ng Point:	DF	23
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	inge: Section 07, 1	ownship 31 N,	, Range 13	3 E	
Landform (hillside, terrace, etc.): Tillplain			Local relief (d	concave, convex, no	one): Concave			
Slope (%): 0.5 Lat: 41.163019		Long:	85.104004		Datum: W	/GS_1984		
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slope	s, frequently	flooded (Es)		NWI cl	lassification: N	/A		
Are climatic / hydrologic conditions on the site typical fo	or this time of	f year?	Yes X	No (If no	o, explain in Re	marks.)		
Are Vegetation , Soil , or Hydrology s	significantly o	disturbed? A	Are "Normal (Circumstances" pres	ent? Yes	X No		
Are Vegetation, Soil, or Hydrologyr				plain any answers i				•
SUMMARY OF FINDINGS – Attach site ma	ap showin	ıg samplin	g point lo	cations, transe	cts, import	ant feat	ures,	, etc.
Hydrophytic Vegetation Present? Yes X No)	Is the	Sampled A	rea				
			n a Wetland		X No			
Wetland Hydrology Present? Yes X No				_				
Remarks:								
DP 23 is representative of Wetland 11-B.								
VEGETATION – Use scientific names of pla	nts.							
·	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test	t worksheet:			
1 2.				Number of Domir	•		1	(\ \)
3.				Are OBL, FACW,			1	(A)
4.				Total Number of Across All Strata:			1	(B)
5.				Percent of Domir	ant Species Th	hat		. (/
	:	Total Cover		Are OBL, FACW,	•		0.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)	1							
1.				Prevalence Inde				
2				Total % Cov		Multiply	-	•
3. 4.				OBL species			70 10	•
5.				FACW species FAC species			15	•
o		Total Cover		FACU species			12	•
Herb Stratum (Plot size: 5 ft)				UPL species		-	0	•
1. Typha angustifolia	55	Yes	OBL	Column Totals:	98 (A)	1	37	(B)
2. Persicaria maculosa	15	No	FACW	Prevalence Inc	dex = B/A =	1.40		-
3. Lythrum salicaria	15	No	OBL					
4. Solanum dulcamara	5	No	FAC	Hydrophytic Ve	_			
5. Cyperus esculentus	5	No No	FACW	· — ·	st for Hydrophy	•	ation	
6. <u>Cirsium discolor</u>	3	<u>No</u>	FACU	X 2 - Dominano				
7				X 3 - Prevalence	ce index is ≤3.∪ gical Adaptatio		do cun	norting
8 9.					marks or on a	•		porting
10.				Problematic	Hydrophytic Ve	egetation ¹	(Expla	in)
	98	Total Cover		¹ Indicators of hyd				
Woody Vine Stratum (Plot size: 30 ft)				be present, unles		-		
1.				Hydrophytic				
2				Vegetation				
		=Total Cover		Present?	Yes X	No	-	
Remarks: (Include photo numbers here or on a separ	ate sheet.)							

(inches) 0-3 3-5 5-11 11-18 Type: C=Cond Hydric Soil Inc Histosol (A	Color (moist) 10YR 3/2 10YR 5/1 10YR 4/1 10YR 4/1	% 100 93 70 90	10YR 4/6 2.5YR 4/6	%				
3-5 5-11 11-18 1Type: C=Conc Hydric Soil Inc	10YR 5/1 10YR 4/1 10YR 4/1	93 70			Type ¹	Loc ²	Texture	Remarks
5-11 11-18 Type: C=Cond	10YR 4/1 10YR 4/1	70					Loamy/Clayey	
11-18 Type: C=Cond Hydric Soil Inc	10YR 4/1		2.5YR 4/6	7	С	М	Sandy	
¹ Type: C=Cond		90		30	С	M	Sandy	
Hydric Soil Inc	centration D=Denk		10YR 4/6	10	С	М	Sandy	Prominent redox concentrations
Hydric Soil Inc	centration D=Deple							
Hydric Soil Inc		etion RM:	=Reduced Matrix I	MS=Mas	ked Sand	Grains	² Location	: PL=Pore Lining, M=Matrix.
Histosol (A		<u> </u>	Troduced Matrix, 1	no mao	itou ourie	Clairio		rs for Problematic Hydric Soils ³ :
			Sandy Gle	yed Mat	rix (S4)			t Prairie Redox (A16)
Histic Epipe	edon (A2)		X Sandy Red	dox (S5)			Iron-I	Manganese Masses (F12)
Black Histic	c (A3)		Stripped M	1atrix (S6	3)		Red I	Parent Material (F21)
Hydrogen S	Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified La	ayers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Muck	(A10)		Loamy Gle	yed Mat	rix (F2)			
X Depleted B	selow Dark Surface	(A11)	Depleted I	√latrix (F	3)			
Thick Dark	Surface (A12)		Redox Da	rk Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy Muc	cky Mineral (S1)		Depleted [Dark Sur	face (F7)		wetla	nd hydrology must be present,
5 cm Muck	y Peat or Peat (S3))	Redox De	pression	s (F8)		unles	ss disturbed or problematic.
	<u> </u>							responding to the second secon
HYDROLOG	iΥ							
Wetland Hydro	ology Indicators:							
Primary Indicat				apply)				
	tors (minimum of or	<u>ne is requi</u>	red; check all that a				Secondar	ry Indicators (minimum of two require
Surface Wa	•	<u>ne is requi</u>	red; check all that a Water-Sta	ined Lea	ves (B9)			ry Indicators (minimum of two require
Surface Wa	•	<u>ne is requi</u>					Surfa	
Surface Wa	ater (A1) r Table (A2)	<u>ne is requi</u>	Water-Sta	auna (B1	3)		Surfa Drain	ice Soil Cracks (B6)
Surface Wa	ater (A1) r Table (A2) (A3)	<u>ne is requi</u>	Water-Sta Aquatic Fa	auna (B1 itic Plant	3) s (B14))	Surfa Drain Dry-S	ace Soil Cracks (B6) age Patterns (B10)
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Surface Water High Water X Saturation (Water Mark Sediment Deposion Inundation Sparsely Versield Observation Surface Water Table President Saturation Sparsely Versident Saturation President Saturation President Saturation Satur	ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) Visible on Aerial Imegetated Concave tions: Present? resent? Yes sent? Yes	nagery (B7 Surface (B	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck T) Gauge or 1 B8) Other (Exp	auna (B1 sulfide (Rhizosph of Reduc n Reduc surface Well Data Depth (ii	3) s (B14) Odor (C1) eres on L ced Iron (tion in Til (C7) a (D9) emarks) nches): nches):	₋iving Ro C4)	Surfa	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) hed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ect	City/Cour	nty: Fort Wa	yne/Allen	San	npling Date:	9/20/	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	epartment		State: IN	Sam	pling Point	. <u>D</u> I	P 24
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	inge: Section 07,	Township 3	1 N, Range	13 E	
Landform (hillside, terrace, etc.): Tillplain		l	_ocal relief (c	concave, convex, no	one): Conca	ive		
Slope (%):0 Lat: 41.163120		Long:	85.104295		Datum	n: <u>WGS_19</u>	84	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	t slopes, ero	ded (MrB2)		NWI c	 lassification	n: N/A		
Are climatic / hydrologic conditions on the site typical fo	r this time of	f year?	Yes X	No (If no	o, explain in	Remarks.)		
Are Vegetation , Soil , or Hydrology s	ignificantly o	disturbed? A	re "Normal C	Circumstances" pres	sent? Ye	s X 1	٧o	
Are Vegetation, Soil, or Hydrologyn				plain any answers i				
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transe	ects, imp	ortant fe	atures	, etc.
Hydrophytic Vegetation Present? Yes X No		Is the	Sampled A	rea				
			n a Wetland?		X N	0		
Wetland Hydrology Present? Yes X No				_				
Remarks:		_						
DP 24 is representative of Wetland 12.								
VEGETATION – Use scientific names of plar	nts.							
	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Tes	t workshee	et:		
1.				Number of Domi	•	s That	4	(4)
2. 3.				Are OBL, FACW		<u> </u>	1	_(A)
				Total Number of Across All Strata		Species	1	(B)
5.				Percent of Domir		e That	<u> </u>	_(_)
		=Total Cover		Are OBL, FACW	•		00.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)								_
1				Prevalence Inde				
2.				Total % Cov		Multip		_
3.				OBL species	44	x 1 =	44	-
5.				FACW species FAC species	2	x 2 = x 3 =	<u>4</u> 6	_
J		Total Cover		FACU species	0	x 4 =	0	-
Herb Stratum (Plot size: 5 ft)				UPL species	0	x 5 =	0	_
1. Typha angustifolia	40	Yes	OBL	Column Totals:	48	(A)	54	(B)
2. Epilobium strictum	3	No	OBL	Prevalence In	dex = B/A	= 1.1	3	_
3. Solidago gigantea	2	No	FACW					
4. Toxicodendron radicans	2	No	FAC	Hydrophytic Ve	_			
5. Lycopus americanus	1	No	OBL	1 - Rapid Te	,	. , .	etation	
6.				X 2 - Dominan				
7				X 3 - Prevaleno 4 - Morpholo				
8 9.					•	alions (Pro n a separat		
10.				Problematic		•	,	
	48	Total Cover		¹ Indicators of hyd				
Woody Vine Stratum (Plot size: 30 ft)				be present, unles		-		
1				Hydrophytic				
2.				Vegetation				
		=Total Cover		Present?	Yes X	No		
Remarks: (Include photo numbers here or on a separa	ate sheet.)							

Depth (inches)	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 4/2	95	10YR 6/6	5	С	M	Loamy/Clayey	Prominent redox concentrations
10-18	10YR 4/2	90	10YR 4/6	10	С	М	Loamy/Clayey	
	. <u> </u>							
	oncentration, D=Dep	letion, RM=	Reduced Matrix, N	/IS=Mas	ked San	d Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil			0 01		-i- (O.4)			rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	-				et Prairie Redox (A16)
	pipedon (A2)		Sandy Red	, ,				Manganese Masses (F12)
	istic (A3)		Stripped M	,	P)			Parent Material (F21)
	en Sulfide (A4)		Dark Surfa		aral (E1)			Shallow Dark Surface (F22)
	d Layers (A5) uck (A10)		Loamy Mu Loamy Gle	-			Otne	r (Explain in Remarks)
	d Below Dark Surface	(Δ11)	X Depleted N	-				
	ark Surface (A12)	(7(1)	Redox Da				³ Indicator	rs of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted [, ,	1		and hydrology must be present,
	ucky Peat or Peat (S3)	Redox De		` '	'		ss disturbed or problematic.
Restrictive	Layer (if observed):	-	<u> </u>					·
Type:	,							
Depth (ii	nches):						Hydric Soil Present	? Yes X No
						293.docx	,	
IVDDOL 6	201/						,	
							,	
Wetland Hy	drology Indicators:							
Wetland Hy Primary Indi	drology Indicators: cators (minimum of o	ne is requi			(00)		<u>Seconda</u> l	ry Indicators (minimum of two required
Wetland Hy Primary Indi X Surface	rdrology Indicators: cators (minimum of o Water (A1)	ne is requi	Water-Sta	ined Lea			Secondal	ace Soil Cracks (B6)
Wetland Hy Primary Indi X Surface X High Wa	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2)	ne is requi	Water-Sta Aquatic Fa	ined Lea una (B1	3)		<u>Secondal</u> Surfa Drain	ace Soil Cracks (B6) nage Patterns (B10)
Wetland Hy Primary Indi X Surface X High Wa X Saturation	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3)	ne is requi	Water-Sta Aquatic Fa True Aqua	ined Lea una (B1 tic Plant	3) s (B14)		Secondal Surfal Drair	ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Wetland Hy Primary Indi X Surface X High Wa X Saturation Water M	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) farks (B1)	ne is requi	Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea una (B1 tic Plant Sulfide (3) s (B14) Odor (C1)	Secondar Surfa Drair Dry-S Cray	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Wetland Hy Primary India X Surface X High Wa X Saturatio Water M Sedimer	cators (minimum of o Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)	ne is requi	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 tic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1 eres on l) Living Ro	Secondal Surfa Drain Dry-S Crayi	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Wetland Hy Primary India X Surface X High Wa X Saturatio Water M Sedimer Drift Dep	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3)	ne is requi	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1 eres on lead) Living Ro	Secondal Surfa Drain Dry-5 Cray: Dots (C3) Sature Stunt	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Wetland Hy Primary India X Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma	cators (minimum of o Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)	ne is requi	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	3) s (B14) Odor (C1 eres on led Iron (tion in Ti) Living Ro	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Wetland Hy Primary India X Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	3) s (B14) Odor (C1 eres on lead Iron (tion in Ti) Living Ro	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Wetland Hy Primary Indi X Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	nagery (B7	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on led Iron (tion in Ti (C7) a (D9)) Living Ro	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Wetland Hy Primary India X Surface X High Wa X Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ir y Vegetated Concave	nagery (B7	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on led Iron (tion in Ti (C7) a (D9)) Living Ro	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Wetland Hy Primary India X Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In y Vegetated Concave	nagery (B7 Surface (E	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	3) s (B14) Ddor (C1 eres on led Iron (tion in Ti (C7) a (D9) temarks)) Living Ro	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Wetland Hy Primary India X Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ir y Vegetated Concave rvations: ter Present? Ye	nagery (B7 Surface (B s <u>X</u>	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) elemarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Primary India X Surface X High Wa X Saturation Water Management Sediment Drift Dep Algal Management Iron Dep Inundation Sparsely Field Obsert Surface Water Field Obsert Surface Water Surface Water Field Obsert Surface Water Field Obsert Surface Water Field Obsert Surface Water Algal Management But Primary India Algal Management Surface Water Algal Management But Primary India Algal Management Surface Water Surface Water Surface Water Surface Water Algal Management Surface Water Surface Water	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ir y Vegetated Concave rvations: ter Present? Ye Present? Ye	magery (B7 Surface (E s X s X	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp	ined Lea duna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) elemarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) Neutral Test (D5)
Wetland Hy Primary India X Surface X High Wa X Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In y Vegetated Concave rvations: ter Present? Present? Ye Present? Ye pillary fringe)	magery (B7 Surface (E s X s X s X	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp No No No No	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron (tion in Ti (C7) a (D9) demarks) nches):nches):nches):) Living Ro (C4) Illed Soils	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) Neutral Test (D5)
Wetland Hy Primary India X Surface X High Wa X Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ir y Vegetated Concave rvations: ter Present? Ye e Present? Ye gresent? Ye	magery (B7 Surface (E s X s X s X	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp No No No No	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron (tion in Ti (C7) a (D9) demarks) nches): _nches): _nches): _) Living Ro (C4) Illed Soils	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) Neutral Test (D5)
Wetland Hy Primary India X Surface X High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Water Table Saturation P (includes ca Describe Re	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In y Vegetated Concave rvations: ter Present? Present? Ye Present? Ye pillary fringe)	magery (B7 Surface (E s X s X s X	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp No No No No	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron (tion in Ti (C7) a (D9) demarks) nches): _nches): _nches): _) Living Ro (C4) Illed Soils	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) Neutral Test (D5)
Wetland Hy Primary India X Surface X High Wa X Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In y Vegetated Concave rvations: ter Present? Present? Ye Present? Ye pillary fringe)	magery (B7 Surface (E s X s X s X	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp No No No No	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron (tion in Ti (C7) a (D9) demarks) nches): _nches): _nches): _) Living Ro (C4) Illed Soils	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) Neutral Test (D5)
Wetland Hy Primary India X Surface X High Wax X Saturation Water M Sedimer Drift Dep Algal Max Iron Dep Inundation Sparsely Field Obser Surface Water Table Saturation P (includes can Describe Re	rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In y Vegetated Concave rvations: ter Present? Present? Ye Present? Ye pillary fringe)	magery (B7 Surface (E s X s X s X	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp No No No No	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron (tion in Ti (C7) a (D9) demarks) nches): _nches): _nches): _) Living Ro (C4) Illed Soils	Secondal	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) Neutral Test (D5)

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	ect	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Dat	te: 9/20/	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Poi	nt: D	P 25
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	ange: Section 07, Town	ship 31 N, Ranç	je 13 E	
Landform (hillside, terrace, etc.): Tillplain			_ocal relief (d	concave, convex, none):	Convex		
Slope (%): 0.5 Lat: 41.163091		Long:	85.104325		Datum: WGS_1	1984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	slopes, ero	ded (MrB2)		NWI classit	fication: N/A		
Are climatic / hydrologic conditions on the site typical for	r this time of	year?	Yes X	No (If no, exp	olain in Remarks	3.)	
Are Vegetation , Soil , or Hydrology si	ignificantly o	listurbed? A	re "Normal (Circumstances" present?	Yes X	No	
Are Vegetation, Soil, or Hydrologyn	aturally prob	olematic? (If needed, ex	plain any answers in Re	marks.)	' <u></u>	_
SUMMARY OF FINDINGS – Attach site ma						eatures	, etc.
Hydrophytic Vegetation Present? Yes X No		Is the	Sampled A	rea			
	X		n a Wetland		No X		
Wetland Hydrology Present? Yes No	Х						
Remarks:		_					
DP 25 is representative of the upland area surrounding	Wetland 12	2.					
VEGETATION – Use scientific names of plar		Densin	la di a tan	T			
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1				Number of Dominant	Species That		
2.				Are OBL, FACW, or F	•	3	(A)
3				Total Number of Dom	inant Species		
4				Across All Strata:	_	3	_(B)
5		Total Cover		Percent of Dominant : Are OBL, FACW, or F	•	100.0%	(A/R)
<u>Sapling/Shrub Stratum</u> (Plot size: 15 ft)		- Total Cover		Ale OBL, I AOW, OI I	_	100.070	_(^(D)
1.				Prevalence Index wo	orksheet:		
2.				Total % Cover of	:: Mul	tiply by:	_
3.				OBL species (x 1 =	0	_
4				· · ·	0 x 2 = _	40	_
5				FAC species 6		180	_
Herb Stratum (Plot size: 5 ft)		Total Cover		FACU species 2 UPL species (0 x 4 = x 5 =	80 0	_
Herb Stratum (Plot size: 5 ft) 1. Toxicodendron radicans	30	Yes	FAC	Column Totals: 10		300	(B)
Poa pratensis	30	Yes	FAC	Prevalence Index	` /	3.00	_(D)
3. Solidago gigantea	20	Yes	FACW		· ·		-
4. Schedonorus arundinaceus	10	No	FACU	Hydrophytic Vegeta	tion Indicators:		
5. Cirsium discolor	10	No	FACU	1 - Rapid Test for	Hydrophytic Ve	getation	
6				X 2 - Dominance Te			
7				3 - Prevalence In			
8				4 - Morphological	Adaptations' (F s or on a separ		
9.				Problematic Hydr	·		
10	100 =	Total Cover					
Woody Vine Stratum (Plot size: 30 ft)		. 5.5. 55701		¹ Indicators of hydric s be present, unless dis			must
1.				Hydrophytic			
2.				Vegetation			
	=	Total Cover		Present? Yes	X No_		
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) Comy Mucky Mineral (F1) Comy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field In Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	
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Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field In Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	unless disturbed or problematic.
Type: Depth (inches): Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field In Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
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Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Drainage Patterns (B10)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Dry-Season Water Table (C2)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Crayfish Burrows (C8)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	C FAC-Neutral Test (D5)
Field Observations.	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
· ` ` <u></u>	
(includes capillary fringe)	vdrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availa	ydrology Present? Yes No_>
Remarks:	

US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project/Site: Clinton Street Roadway	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Da	ate: 9/20/	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	o. Highway De	epartment		State: IN	Sampling Po	oint: D)P 26
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	ange: Section 06, Tov	– vnship 31 N, Rar	nge 13 E	
Landform (hillside, terrace, etc.): Tillplain			Local relief (concave, convex, none): Concave		
Slope (%): 0 Lat: 41.165107		Long: -	85.104219		Datum: WGS_	1984	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slop	es, frequently				sification: N/A		
Are climatic / hydrologic conditions on the site typical f	for this time o	f year?	Yes X	No (If no, e	xplain in Remark	(s.)	
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology					·		_
SUMMARY OF FINDINGS – Attach site m						features	s, etc.
Hydrophytic Vegetation Present? Yes X N	lo	Is the	Sampled A	rea			
	lo		n a Wetland		No		
Wetland Hydrology Present? Yes X	lo						
Remarks:		•					
DP 26 is representative Wetland 13-A.							
VEGETATION – Use scientific names of pla		Dani'n ant	In all and an	1			
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test w	orksheet:		
1. Populus deltoides	5	Yes	FAC	Number of Dominar			
2. Salix nigra	3	Yes	OBL	Are OBL, FACW, or	•	5	(A)
3.				Total Number of Do	minant Species		_
4				Across All Strata:	-	5	_(B)
5				Percent of Dominan	•		
0 1 10 1 0 1 1 15 1	8	=Total Cover		Are OBL, FACW, or	FAC:	100.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)	Vaa	EA C\A/	Dravelance Index :			
Salix interior Salix nigra	<u>35</u> 5	Yes No	FACW OBL	Prevalence Index v Total % Cover		ıltiply by:	
Populus deltoides	1	No	FAC	OBL species	71 x 1 =	71	_
4.	<u> </u>		1710	FACW species	35 x 2 =	70	_
5.				FAC species	6 x 3 =	18	_
	41	=Total Cover		FACU species	0 x 4 =	0	_
Herb Stratum (Plot size: 5 ft)				UPL species	0 x 5 =	0	_
1. Typha angustifolia	25	Yes	OBL	Column Totals:	112 (A)	159	(B)
2. Lythrum salicaria	25	Yes	OBL	Prevalence Index	< = B/A =	1.42	_
3. Ludwigia palustris	10	No	OBL				
4. <u>Lemna minor</u>	2	No	OBL	Hydrophytic Veget			
5. Alisma subcordatum	1	No	OBL		or Hydrophytic V	egetation	
6.				X 2 - Dominance			
7.				X 3 - Prevalence	Index is ≤3.01 al Adaptations¹ (Dunida	
8. 9.					arks or on a sepa		
					drophytic Vegeta	,	,
10	63	=Total Cover		¹ Indicators of hydric		, ,	•
Woody Vine Stratum (Plot size: 30 ft)			be present, unless of			must
1.	, ′			,	·		
2.				Hydrophytic Vegetation			
		=Total Cover		_	s X No		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/1	95	10YR 3/6	5	С	M	Loamy/Clayey	Prominent redox concentrations
10-18	10YR 5/2	90	10YR 5/6	10	С	М	Loamy/Clayey	
			_					· -
1 _{Type:} C=C	oncentration, D=Dep	otion DM:	-Poducod Matrix M		Lod Son		² l coatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil		GUOII, IXIVI	-iteduced Matrix, i	vio-ivias	Keu San	u Giailis		ors for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	ved Mat	rix (S4)			ast Prairie Redox (A16)
	ipedon (A2)		Sandy Re	-				-Manganese Masses (F12)
Black His			Stripped N					I Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	-	,			y Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu		eral (F1)			er (Explain in Remarks)
2 cm Mu			Loamy Gle	-				· (· · · · · · · · · · · · · · · · · ·
	l Below Dark Surface	(A11)	X Depleted I	•	• •			
	rk Surface (A12)	,	X Redox Da	`	,		³ Indicate	ors of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted I		` ')		land hydrology must be present,
5 cm Mu	cky Peat or Peat (S3)	Redox De		, ,	•		ess disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
ιyρ e .								
Depth (ir Remarks: This data for								rs of Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mic //www.nrcs.usda.gov						NRCS Field Indicato	
Depth (in Remarks: This data for Errata. (http:	m is revised from Mid //www.nrcs.usda.gov						NRCS Field Indicato	
Depth (in Remarks: This data for Errata. (http:	m is revised from Mid //www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	5/nrcs142			NRCS Field Indicato	rs of Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mid //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of o	/Internet/F	SE_DOCUMENTS	apply)	2p2_0512	293.docx	NRCS Field Indicato) Second	rs of Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary India Surface	m is revised from Mid //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of o	/Internet/F	red; check all that	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicato) Second Sur	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hydel Primary India Surface High Wa	m is revised from Mid //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2)	/Internet/F	red; check all that aX_ Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicato) Second Sur Dra	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatio	m is revised from Mid //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3)	/Internet/F	red; check all that a X Water-Sta Aquatic Fa X True Aqua	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicato) Second Sur Dra Dry	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
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Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Surface High Wa Saturation X Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	m is revised from Mic //www.nrcs.usda.gov drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) ot or Crust (B4) osits (B5) on Visible on Aerial Ir v Vegetated Concave vations: er Present? Ye Present? Ye resent? Ye present? Ye present? Ye	nagery (B: Surface (I	red; check all that a X Water-Sta Aquatic Fa X True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat blain in F Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on lettion in Title (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) illed Soils	NRCS Field Indicator Second Sur Dra Dry Cra Sots (C3) Sat Stu Stu S (C6) X Gec X FAC	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Da	ite: 9/20/	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	o. Highway De	epartment		State: IN	Sampling Po	int: D	P 27
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	ange: Section 06, Towr	nship 31 N, Ran	ge 13 E	
Landform (hillside, terrace, etc.): Floodplain			Local relief (d	concave, convex, none):	Convex		
Slope (%): 2 Lat: 41.165099		Long:	85.104159		Datum: WGS_	1984	
Soil Map Unit Name: Eel silt loam, 0 to 2 percent slope	es, frequently	flooded (Es)		NWI classi	fication: N/A		
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?	Yes X	No (If no, ex	plain in Remark	s.)	
Are Vegetation , Soil , or Hydrology	significantly of				? Yes X	No	
Are Vegetation , Soil , or Hydrology							
SUMMARY OF FINDINGS – Attach site m	!					features	s, etc.
Hydrophytic Vegetation Present? Yes N	lo X	Is the	Sampled A	rea			
	lo		n a Wetland		No X		
Wetland Hydrology Present? Yes N	lo X						
Remarks:							
DP 27 is representative of the upland area surrounding	ng Wetland 1	3-A.					
VEGETATION – Use scientific names of pla							
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet.		
1. Populus deltoides	5	Yes	FAC	Number of Dominant			
2. Salix nigra	3	Yes	OBL	Are OBL, FACW, or f	•	3	(A)
3.				Total Number of Dom	ninant Species		
4.				Across All Strata:	· _	6	_(B)
5				Percent of Dominant	•		
	8	=Total Cover		Are OBL, FACW, or I	FAC:	50.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft			LIDI				
Pyrus calleryana Soliv integrals	3	Yes	UPL	Prevalence Index was Total % Cover o		ltiply by	
Salix interior 3.		Yes	FACW	-	3 x 1 =	Itiply by: 13	_
4.					3 x 2 =	6	_
5.					6 x3=	18	_
	8	Total Cover			64 x 4 =	256	_
Herb Stratum (Plot size: 5 ft)				UPL species 3	30 x 5 =	150	_
Solidago altissima	53	Yes	FACU	Column Totals: 1	16 (A)	443	(B)
2. Securigera varia	25	Yes	UPL	Prevalence Index	= B/A =	3.82	_
3. Lythrum salicaria	10	No	OBL				
4. Dipsacus fullonum	10	No	FACU	Hydrophytic Vegeta			
5. Symphyotrichum pilosum		No No	FACU	1 - Rapid Test fo		egetation	
6. Geum canadense	1	<u>No</u>	FAC	2 - Dominance T			
7. 8.				3 - Prevalence In 4 - Morphologica		Drovido ou	nnartina
					ks or on a sepa		
9. 10.				Problematic Hyd	•		
· · · ·	100	=Total Cover		¹ Indicators of hydric s			-
Woody Vine Stratum (Plot size: 30 ft)			be present, unless di			must
1.	· ·			Hydrophytic			
2.				Vegetation			
	_ :	=Total Cover		Present? Yes	No_	X	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						
•							

Depth	Matrix		Redo	x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	10YR 3/2	95	10YR 5/6	5	С	M	Loamy/Clayey	Promine	ent redox conce	ntrations
							_	_		
			_							
	oncentration, D=Deple	etion, RM=	Reduced Matrix, I	MS=Mas	ked San	d Grains.		ion: PL=Pore L		_
Hydric Soil								tors for Proble	-	Soils ³ :
Histosol			Sandy Gle	-				oast Prairie Red		
	pipedon (A2)		Sandy Re	, ,				on-Manganese		
Black Hi			Stripped N	,	5)			ed Parent Mate		
	n Sulfide (A4)		Dark Surfa		1 (54)			ery Shallow Dar)
	Layers (A5)		Loamy Mu	-			<u> </u>	ther (Explain in	Remarks)	
	ick (A10) d Below Dark Surface	(0.4.4)	Loamy Gle	-						
	ark Surface (A12)	(A11)	Depleted I X Redox Da	`	,		³ Indica	ators of hydroph	vtic vogotation	and
	lucky Mineral (S1)		Depleted I		, ,)		etland hydrolog		
	icky Peat or Peat (S3)		Redox De		` '	,		nless disturbed		,,,,
				procoion				noos diotarbou	or problemate.	
Restrictive	Layer (if observed):									
Tymar										
Type: Depth (ii	nches):						Hydric Soil Pres	ent?	Yes X	No
Depth (in Remarks: This data for	m is revised from Mid //www.nrcs.usda.gov/								Yes X oils, Version 7.0	No
Depth (in Remarks: This data for	m is revised from Mid						NRCS Field Indica			
Depth (ii Remarks: This data for Errata. (http:	m is revised from Mid //www.nrcs.usda.gov/						NRCS Field Indica			
Depth (in Remarks: This data for Errata. (http://dx.	m is revised from Mid //www.nrcs.usda.gov/						NRCS Field Indica			
Depth (in Remarks: This data for Errata. (http://www.defa.com/defa	m is revised from Mid //www.nrcs.usda.gov/	Internet/F	SE_DOCUMENTS	S/nrcs142			NRCS Field Indica		oils, Version 7.0), 2015
Depth (in Remarks: This data for Errata. (http://www.depth.com/dep	m is revised from Mid //www.nrcs.usda.gov/ DGY drology Indicators:	Internet/F	SE_DOCUMENTS	apply)	2p2_0512	293.docx	NRCS Field Indica) Secon	tors of Hydric S	oils, Version 7.0), 2015
Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Indi Surface	m is revised from Mid //www.nrcs.usda.gov/ DGY drology Indicators: cators (minimum of or	Internet/F	SE_DOCUMENTS	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indica	tors of Hydric S	oils, Version 7.0 (minimum of two), 2015
Depth (in Remarks: This data for Errata. (http://www.defand.com/de	orm is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of on Water (A1) on (A3)	Internet/F	SE_DOCUMENTS red; check all that a	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indica) Secon Secon D	tors of Hydric Solidary Indicators urface Soil Crac	(minimum of two), 2015
Depth (ii Remarks: This data for Errata. (http:	OGY drology Indicators: cators (minimum of on Water (A1) iter Table (A2) on (A3) arks (B1)	Internet/F	red; check all that a water-Sta	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indica) Secon Si D C	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate	(minimum of two ks (B6) s (B10) er Table (C2) (C8)	o, 2015
Depth (ii Remarks: This data for Errata. (http:	orm is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of on Water (A1) on (A3)	Internet/F	red; check all that a water-Sta	apply) ined Lea auna (B1 stilc Plant	ves (B9) 3) s (B14) Odor (C1	293.docx	NRCS Field Indica) Secon D C	tors of Hydric S dary Indicators urface Soil Crac rainage Patterns ry-Season Wate	(minimum of two ks (B6) s (B10) er Table (C2) (C8)	o, 2015
Depth (ii Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep	orm is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of on Water (A1) of (A3) arks (B1) of Deposits (B2) ossits (B3)	Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Farersence	apply) ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ced Iron	293.docx	NRCS Field Indica Secon Socon D Coots (C3) Si	dary Indicators urface Soil Crac rainage Pattern ry-Season Wate rayfish Burrows aturation Visible	(minimum of two less (B6) s (B10) er Table (C2) (C8) e on Aerial Imaged ed Plants (D1)	o, 2015
Depth (in Remarks: This data for Errata. (http://www.primary.lndi	orm is revised from Mid //www.nrcs.usda.gov/ ord	Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fareresence Recent Iro	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ction in Ti	293.docx	Secor Signature Secor Signature Secor Signature Secor Signature Secor Signature Signat	ndary Indicators urface Soil Crace rainage Patternery-Season Water rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two ks (B6) s (B10) er Table (C2) (C8) on Aerial Imaged Plants (D1) tion (D2)	o, 2015
Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	orm is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of on Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	Internet/F	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (tion in Ti (C7)	293.docx	Secor Signature Secor Signature Secor Signature Secor Signature Secor Signature Signat	dary Indicators urface Soil Crac rainage Pattern ry-Season Wate rayfish Burrows aturation Visible	(minimum of two ks (B6) s (B10) er Table (C2) (C8) on Aerial Imaged Plants (D1) tion (D2)	o, 2015
Depth (ii Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	orm is revised from Mid //www.nrcs.usda.gov/ DGY drology Indicators: cators (minimum of or) Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Into or Crust (B4) Into or Crust (B4) Inter Total (B5) Into Nisible on Aerial Im	Internet/Fi	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Facence Recent Iro Thin Muck	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (C7) a (D9)) Living Ro (C4) illed Soils	Secor Signature Secor Signature Secor Signature Secor Signature Secor Signature Signat	ndary Indicators urface Soil Crace rainage Patternery-Season Water rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two ks (B6) s (B10) er Table (C2) (C8) on Aerial Imaged Plants (D1) tion (D2)	o, 2015
Depth (ii Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	orm is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of on Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial Im / Vegetated Concave	Internet/Fi	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Facence Recent Iro Thin Muck	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (C7) a (D9)) Living Ro (C4) illed Soils	Secor Signature Secor Signature Secor Signature Secor Signature Secor Signature Signat	ndary Indicators urface Soil Crace rainage Patternery-Season Water rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two ks (B6) s (B10) er Table (C2) (C8) on Aerial Imaged Plants (D1) tion (D2)	o, 2015
Depth (ii Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely	orm is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of on Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B2) Inte	Internet/Fi	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (1) Gauge or Other (Exp	apply) ined Lea auna (B1 auna (B1 stic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on leed Iron (tion in Ti (C7) a (D9)) Living Ro (C4) illed Soils	Secor Signature Secor Signature Secor Signature Secor Signature Secor Signature Signat	ndary Indicators urface Soil Crace rainage Patternery-Season Water rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two ks (B6) s (B10) er Table (C2) (C8) on Aerial Imaged Plants (D1) tion (D2)	o, 2015
Depth (ii Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Water	orm is revised from Mid //www.nrcs.usda.gov/ DGY drology Indicators: cators (minimum of on Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Int Deposits (B2) Into Crust (B4) Into Crust (B4) Into Visible on Aerial Im It Vegetated Concave in It vegetated Co	nternet/Fi	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp.	apply) ined Lea auna (B1 auna (B1 stic Plant Sulfide (Rhizosph of Reduc in Reduc is Surface Well Dat blain in F	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (tion in Ti (C7) a (D9) temarks)) Living Ro (C4) illed Soils	Secor Signature Secor Signature Secor Signature Secor Signature Secor Signature Signat	ndary Indicators urface Soil Crace rainage Patternery-Season Water rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two ks (B6) s (B10) er Table (C2) (C8) on Aerial Imaged Plants (D1) tion (D2)	o, 2015
Depth (in Remarks: This data for Errata. (http://www.communications.com/depth/scales.) HYDROLO Wetland Hy Primary India Surface High Wa Saturation Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Wat Water Table	orm is revised from Mid //www.nrcs.usda.gov/ DGY drology Indicators: cators (minimum of or) Water (A1) Inter Table (A2) Int Deposits (B2) Int Deposits (B2) Int or Crust (B4) Int or Crust (B4) Int or Crust (B4) Int or Visible on Aerial Im It Vegetated Concave in It veg	Internet/Fi	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Good Gauge or State Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc in Reduc in Reduc is Surface Well Dat Depth (i Depth (i	ves (B9) 3) s (B14) Ddor (C1 eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) illed Soils	Secon Secon D Coots (C3) Si Si Si C6) Fr	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two less (B6) so (B10) er Table (C2) (C8) er on Aerial Imaged Plants (D1) tion (D2) so (D5)	o require
Depth (in Remarks: This data for Errata. (http://www.communication.com/mary.communication.com/mary.com	orm is revised from Mid //www.nrcs.usda.gov/ drology Indicators: cators (minimum of on Water (A1) on (A3) arks (B1) on (Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Im / Vegetated Concave vations: er Present? Present? Yes resent? Yes	Internet/Fi	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp.	apply) ined Lea auna (B1 auna (B1 stic Plant Sulfide (Rhizosph of Reduc in Reduc is Surface Well Dat blain in F	ves (B9) 3) s (B14) Ddor (C1 eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) illed Soils	Secor Signature Secor Signature Secor Signature Secor Signature Secor Signature Signat	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two less (B6) so (B10) er Table (C2) (C8) er on Aerial Imaged Plants (D1) tion (D2) so (D5)	o require
Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	orm is revised from Mid //www.nrcs.usda.gov/ drology Indicators: cators (minimum of orm Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (B2) Inter Ta	nagery (B7	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat blain in R Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on letton in Ti (C7) a (D9) temarks) nches): _ nches): _ nches): _) Living Ro (C4) illed Soils	NRCS Field Indica Secon Si D Coots (C3) Si Si Si (C6) G Fi	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two less (B6) so (B10) er Table (C2) (C8) er on Aerial Imaged Plants (D1) tion (D2) so (D5)	o, 2015
Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	orm is revised from Mid //www.nrcs.usda.gov/ drology Indicators: cators (minimum of on Water (A1) on (A3) arks (B1) on (Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Im / Vegetated Concave vations: er Present? Present? Yes resent? Yes	nagery (B7	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat blain in R Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on letton in Ti (C7) a (D9) temarks) nches): _ nches): _ nches): _) Living Ro (C4) illed Soils	NRCS Field Indica Secon Si D Coots (C3) Si Si Si (C6) G Fi	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two less (B6) so (B10) er Table (C2) (C8) er on Aerial Imaged Plants (D1) tion (D2) so (D5)	o require
Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	orm is revised from Mid //www.nrcs.usda.gov/ drology Indicators: cators (minimum of orm Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (A2) Inter Table (B2) Inter Ta	nagery (B7	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat blain in R Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on letton in Ti (C7) a (D9) temarks) nches): _ nches): _ nches): _) Living Ro (C4) illed Soils	NRCS Field Indica Secon Si D Coots (C3) Si Si Si (C6) G Fi	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible tunted or Stress eomorphic Posi	(minimum of two less (B6) so (B10) er Table (C2) (C8) er on Aerial Imaged Plants (D1) tion (D2) so (D5)	o require

US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cou	nty: Fort Wa	yne/Allen	Sampling Da	ate: 9/20	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	o. Highway De	epartment	`	State: IN	Sampling Po	oint: D	P 28
Investigator(s): Josh Iddings and Alyssa Damiano		Section, 1	Γownship, Ra	inge: Section 05, To	— wnship 31 N, Rar	nge 13 E	
Landform (hillside, terrace, etc.): Depression			Local relief (concave, convex, none	e): Concave		
Slope (%): 0.5 Lat: 41.165099						1984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 perce	nt slopes, ero				ssification: N/A	-	
Are climatic / hydrologic conditions on the site typical f			Yes X	No (If no, e	explain in Remarl	ks.)	
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology				plain any answers in l	· · · · · · · · · · · · · · · · · · ·		_
SUMMARY OF FINDINGS – Attach site m					•	features	s, etc.
Hydrophytic Vegetation Present? Yes X N	lo	Is the	Sampled A	rea			
	lo		n a Wetland		No		
	lo						
Remarks:							
DP 28 is representative of Wetland 13-B.							
VEGETATION – Use scientific names of pla							
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test v	vorkshoot:		
1. Salix nigra	5	Yes	OBL	Number of Domina			
2. Populus deltoides	2	Yes	FAC	Are OBL, FACW, o	•	5	(A)
3.				Total Number of Do	- ominant Species		_
4.				Across All Strata:	•	5	_(B)
5				Percent of Dominal	•		
	7	=Total Cover		Are OBL, FACW, o	r FAC:	100.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft		.,	E4 014/				
Salix interior Populus deltoides	5 2	Yes Yes	FACW	Prevalence Index Total % Cover		ultiply by:	
3.		162	FAC	OBL species	65 x 1 =	ultiply by: 65	_
4.				FACW species	12 x 2 =	24	_
5.				FAC species	14 x 3 =	42	_
	7	=Total Cover		FACU species	20 x 4 =	80	_
Herb Stratum (Plot size: 5 ft)				UPL species	3 x 5 =	15	_
1. Lythrum salicaria	60	Yes	OBL	Column Totals:	114 (A)	226	(B)
2. Equisetum arvense	10	No	FAC	Prevalence Inde	x = B/A =	1.98	_
3. Solidago altissima	10	No	FACU				
4. Dipsacus fullonum	10	No	FACU	Hydrophytic Vege			
5. Phragmites australis	5	No No	FACW		for Hydrophytic V	egetation	
6. Securigera varia	3	No No	UPL	X 2 - Dominance			
7. <u>Equisetum hyemale</u> 8.	2	<u>No</u>	FACW	X 3 - Prevalence	index is ≤3.0° cal Adaptations¹ (Drovido ou	nnortina
0					arks or on a sepa	•	
10.				Problematic H	,drophytic Vegeta	tion ¹ (Expl	ain)
-	100	Total Cover		¹ Indicators of hydric			•
Woody Vine Stratum (Plot size: 30 ft)			be present, unless			must
1.				Hydrophytic			
2.				Vegetation			
	<u> </u>	=Total Cover		Present? Ye	es X No		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

(inches) Color (moist) % Color (m 0-18 10YR 3/1 97 10YR 3/1			Texture	Remarks
0-18 10YR 3/1 97 10YR 3	3 C	M		
			Loamy/Clayey	Prominent redox concentrations
			_	
				-
				
			2	
¹ Type: C=Concentration, D=Depletion, RM=Reduced N	Matrix, MS=Masked S	and Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	or the Olever d Matrice (O	4)		s for Problematic Hydric Soils ³ :
	ndy Gleyed Matrix (S	+)		t Prairie Redox (A16)
	ndy Redox (S5)			Manganese Masses (F12)
	ipped Matrix (S6) rk Surface (S7)			Parent Material (F21)
	` '	-1)		Shallow Dark Surface (F22) r (Explain in Remarks)
	amy Mucky Mineral (F amy Gleyed Matrix (F	•	Other	(Explain in Remarks)
	pleted Matrix (F3)	<u>-)</u>		
	dox Dark Surface (F6	۸	³ Indicator	s of hydrophytic vegetation and
	pleted Dark Surface (•		nd hydrology must be present,
<u> </u>	dox Depressions (F8	•		s disturbed or problematic.
Restrictive Layer (if observed):	1 (-,			·
Type:				
Depth (inches):			lydric Soil Present	? Yes X No
1 ()			•	
This data form is revised from Midwest Regional Suppl Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCU			RCS Field Indicators	s of Hydric Soils, Version 7.0, 2015
•			RCS Field Indicators	of Hydric Soils, Version 7.0, 2015
			RCS Field Indicators	of Hydric Soils, Version 7.0, 2015
Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCU			RCS Field Indicators	of Hydric Soils, Version 7.0, 2015
Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCU	MENTS/nrcs142p2_0		<u>Seconda</u> l	ry Indicators (minimum of two require
Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCU HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check.)	MENTS/nrcs142p2_0	51293.docx)	<u>Seconda</u> l	
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check. Surface Water (A1) Water Table (A2) Aq Saturation (A3) Tru Water Marks (B1) Hy Sediment Deposits (B2) Ox Drift Deposits (B3) Pre	all that apply) ater-Stained Leaves (leating Fauna (B13) are Aquatic Plants (B1) drogen Sulfide Odor (leating Fauna (B12) drogen Sulfide Odor (leating Fauna (B12))	51293.docx) 39) 4) C1) on Living Root on (C4)	Secondal Surfa Drain Dry-S Crayl S (C3) X Satur Stunt	ry Indicators (minimum of two require nce Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) red or Stressed Plants (D1)
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US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ject	City/Cour	nty: Fort Wa	yne/Allen	Sampling Date:	9/20/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	. Highway Dε	partment		State: IN	Sampling Point:	DP 29
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	nge: Section 05, Towns	sh <u>ip 31</u> N, Range 1	3 E
Landform (hillside, terrace, etc.): Floodplain			Local relief (c	concave, convex, none):	Convex	
Slope (%): 0.5 Lat: 41.165042			•	· -	Datum: WGS_1984	<u></u> -
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percen	it slopes, ero				ication: N/A	
Are climatic / hydrologic conditions on the site typical fo			Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation , Soil , or Hydrology s		-			•)
Are Vegetation , Soil , or Hydrology r				plain any answers in Rer		
SUMMARY OF FINDINGS – Attach site ma					·	tures, etc.
Hydrophytic Vegetation Present? Yes No	» X	Is the	Sampled Ar	rea		
	X		n a Wetland?		No_X_	
Wetland Hydrology Present? Yes No	X X					
Remarks: DP 29 is representative of the upland area surrounding	g Wetland 10	3_R				
DI 29 15 representative of the apiana area sarrounding	y Woulding 10	<i>,</i> -6.				
L VEGETATION – Use scientific names of plan	nts					
The state of the s	Absolute	Dominant	Indicator			
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
1				Number of Dominant S	•	
2.				Are OBL, FACW, or F	AC:	1 (A)
3.				Total Number of Domi	•	(T)
4				Across All Strata:		5 (B)
5		=Total Cover		Percent of Dominant S	•	1.00/ ₂ (Δ/R)
Sapling/Shrub Stratum (Plot size: 15 ft)	·	- Lorgi Cover		Are OBL, FACW, or F	AC	0.0% (A/B)
1. Pyrus calleryana	, 10	Yes	UPL	Prevalence Index wo	 orksheet:	
2. Salix interior	5	Yes	FACW	Total % Cover of:		by:
3.				OBL species 0		0
4.				FACW species 7	x 2 =	14
5.				FAC species 0	x 3 =	0
	15 =	=Total Cover		FACU species 57	7 x 4 = 2	228
Herb Stratum (Plot size: 5 ft)				UPL species 51	1 x 5 = 2	255
Solidago altissima	25	Yes	FACU	Column Totals: 11		197 (B)
2. Dipsacus fullonum	25	Yes	FACU	Prevalence Index =	= B/A = <u>4.32</u>	
3. Securigera varia	25	Yes	UPL			
4. Eupatorium altissimum	15	No	UPL	Hydrophytic Vegetat		
5. Plantago lanceolata	5	No No	FACU		Hydrophytic Vegeta	ation
6. Euthamia graminifolia		No No	FACU	2 - Dominance Te		
7. Symphyotrichum pilosum	1	No No	FACU	3 - Prevalence Inc	dex is ≤3.0° Adaptations¹ (Provi	ido cupportina
Daucus carota Monarda fistulosa	1	No No	UPL FACU		s or on a separate	0
10.		110	TAGG		ophytic Vegetation ¹	,
10	100 =	=Total Cover		¹ Indicators of hydric so		, , ,
Woody Vine Stratum (Plot size: 30 ft))			be present, unless dist		
1.				Hydrophytic	·	
2.				Vegetation		
		=Total Cover		Present? Yes_	No X	_
Remarks: (Include photo numbers here or on a separa	ate sheet.)			-		

Depth	Matrix		Redo	x Featur	65						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	re		Remarks	
0-10	10YR 4/3	100									
				· ——							
							-				
				. —							
¹ Type: C=C	oncentration, D=Deple	tion. RM=	Reduced Matrix.	MS=Mas	ked Sand	d Grains		² Location: F	PL=Pore Lir	ning, M=Mati	ix.
Hydric Soil		,	,							natic Hydric	•
Histosol	(A1)		Sandy Gle	eyed Mat	rix (S4)				rairie Redo	-	
	oipedon (A2)		Sandy Re	•			-			asses (F12)	
Black Hi			Stripped N	, ,			-		rent Materia	, ,	
	n Sulfide (A4)		Dark Surfa	•	- /		-			Surface (F2	2)
	Layers (A5)		Loamy Mu		eral (F1)		=		Explain in R	,	-,
2 cm Mu			Loamy Gl				=		zxpiaiii iii i	iomanio)	
	l Below Dark Surface (Δ11)	Depleted	•	, ,						
	ark Surface (A12)	, ,	Redox Da	`	,		;	3Indicators o	of hydronhy	tic vegetatio	n and
	lucky Mineral (S1)		Depleted		, ,	ı			, ,	must be pre	
	cky Peat or Peat (S3)		Redox De		٠,					problematic	
				- Procession	(1 0)			4111000 (alotal boar of	problemate	•
Restrictive	Layer (if observed):										
T	Charrel										
Type:	Gravel	10					Hydric Sci	l Drocont?		Voc	No. '
Depth (in Remarks: This data for									f Hydric Soi	Yes	No
Depth (in Remarks: This data for	m is revised from Midv	vest Regi					NRCS Field		f Hydric Soi		<u> </u>
Depth (in Remarks: This data for Errata. (http:	m is revised from Midv //www.nrcs.usda.gov/l	vest Regi					NRCS Field		f Hydric Soi		<u> </u>
Depth (in Remarks: This data for Errata. (http://dx.	m is revised from Midv //www.nrcs.usda.gov/l	vest Regi					NRCS Field		f Hydric Soi		<u> </u>
Depth (in Remarks: This data for Errata. (http://www.defa.com/defa	m is revised from Midv //www.nrcs.usda.gov/l	vest Regi nternet/F	SE_DOCUMENTS	S/nrcs142			NRCS Field	Indicators o		lls, Version 7	.0, 2015
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Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa	m is revised from Midv //www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2)	vest Regi nternet/F	SE_DOCUMENTS red; check all that Water-Sta Aquatic F:	apply) ained Lea	ves (B9)		NRCS Field	Secondary I Surface Drainag	ndicators (r Soil Crack e Patterns	minimum of to s (B6)	.0, 2015
Depth (in Remarks: This data for Errata. (http://www.communication.com/depth/scommunication.com/	m is revised from Midw //www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3)	vest Regi nternet/F	red; check all that Water-Sta Aquatic Fa	apply) ained Lea auna (B1 atic Plant	ves (B9) 3) s (B14)	293.docx	NRCS Field	Secondary I Surface Drainag Dry-Sea	ndicators (i Soil Crack le Patterns ason Water	minimum of to s (B6) (B10) Table (C2)	.0, 2015
Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Watar My	m is revised from Midv //www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1)	vest Regi nternet/F	red; check all that Water-Sta Aquatic Fa True Aqua	apply) apply) aned Lea auna (B1 sulfide (ves (B9) 3) s (B14) Odor (C1	293.docx	NRCS Field	Secondary I Surface Drainag Dry-Sea Crayfish	ndicators (i Soil Crack le Patterns ason Water n Burrows (i	minimum of the second (B10) Table (C2)	.0, 2015 wo require
Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer	m is revised from Midv //www.nrcs.usda.gov/l DGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)	vest Regi nternet/F	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I	apply) apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1 eres on I	293.docx	NRCS Field	Secondary I Surface Drainag Dry-Sea Crayfish Saturati	ndicators (i Soil Crack e Patterns ason Water n Burrows (i on Visible o	minimum of the s (B6) (B10) Table (C2) C8) on Aerial Image	wo require
Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep	m is revised from Midw//www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) ossits (B3)	vest Regi nternet/F	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I	apply) apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Ro	NRCS Field () - coots (C3)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati	ndicators (I Soil Crack e Patterns ason Water n Burrows (I on Visible o	minimum of the second (B10) Table (C2) C8) on Aerial Imaded Plants (D1)	wo require
Depth (in Remarks: This data for Errata. (http://www.communication.com/depth/scales) HYDROLO Wetland Hy Primary India Surface High Wa Saturation Water M Sedimer Drift Dep Algal Ma	m is revised from Midw //www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4)	vest Regi nternet/F	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I	apply) apply) anned Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (ton in Ti) Living Ro	NRCS Field () - coots (C3)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomo	ndicators (i Soil Crack e Patterns ason Water n Burrows (i on Visible of or Stresse	minimum of f s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	wo require
Depth (in Remarks: This data for Errata. (http://www.communication.com/depth/scommunication.com/	m is revised from Midw//www.nrcs.usda.gov/logy drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) cosits (B5)	vest Reginternet/F	red; check all that Water-State Aquatic Fate True Aquatic Fate Hydrogen Oxidized I Presence Recent Iro	apply) apply) anned Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Ro	NRCS Field () - coots (C3)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomo	ndicators (I Soil Crack e Patterns ason Water n Burrows (I on Visible o	minimum of f s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	wo require
Depth (in Remarks: This data for Errata. (http:: HYDROLO Wetland Hy Primary India Surface High Water M Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	m is revised from Midv //www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Ima	vest Reginternet/F	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or	apply) apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (tion in Ti (C7) a (D9)) Living Ro C4) Illed Soils	NRCS Field () - coots (C3)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomo	ndicators (i Soil Crack e Patterns ason Water n Burrows (i on Visible of or Stresse	minimum of f s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	wo require
Depth (in Remarks: This data for Errata. (http://www.communication.com/depth/scale) HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Depth/scale Algal Ma Iron Depth/scale Inundatio Sparsely	m is revised from Midw//www.nrcs.usda.gov/logy drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Imar v Vegetated Concave S	vest Reginternet/F	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or	apply) apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (tion in Ti (C7) a (D9)) Living Ro C4) Illed Soils	NRCS Field () - coots (C3)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomo	ndicators (i Soil Crack e Patterns ason Water n Burrows (i on Visible of or Stresse	minimum of f s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	wo require
Depth (in Remarks: This data for Errata. (http://www.communication.com/depth/scales) HYDROLO Wetland Hy Primary India Surface High Water M Sedimer Drift Depth/scales Algal Ma Iron Depth/scales Inundatia Sparsely Field Obser	m is revised from Midw//www.nrcs.usda.gov/logy drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Image Vegetated Concave Separations:	vest Reginternet/Findernet	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or Other (Ex	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat plain in F	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro C4) Illed Soils	NRCS Field () - coots (C3)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomo	ndicators (i Soil Crack e Patterns ason Water n Burrows (i on Visible of or Stresse	minimum of f s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	wo require
Depth (in Remarks: This data for Errata. (http:: HYDROLO Wetland Hy Primary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Water	m is revised from Midv //www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Ima v Vegetated Concave S vations: er Present? Yes	vest Reginternet/Fi	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Ird Thin Muck Gauge or Other (Ex	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat plain in F	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) temarks)) Living Ro C4) Illed Soils	NRCS Field () - coots (C3)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomo	ndicators (i Soil Crack e Patterns ason Water n Burrows (i on Visible of or Stresse	minimum of f s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	wo require
Depth (in Remarks: This data for Errata. (http:	m is revised from Midv //www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Image vegetated Concave Servations: er Present? Yes Present? Yes	vest Reginternet/Fi	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or Other (Ex	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat plain in F Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living Ro C4) Illed Soils	NRCS Field c) coots (C3) s (C6)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomo	ndicators (i Soil Crack le Patterns ason Water n Burrows (i on Visible o or Stresse rphic Positio eutral Test (minimum of the second (B10) Table (C2) C8) on Aerial Imade d Plants (D1) on (D2) (D5)	wo require
Depth (in Remarks: This data for Errata. (http://www.communication.com/depth/scales) HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P	m is revised from Midw//www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Ima v Vegetated Concave S vations: er Present? Yes Present? Yes resent? Yes	vest Reginternet/Fi	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Ird Thin Muck Gauge or Other (Ex	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat plain in F	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living Ro C4) Illed Soils	NRCS Field c) coots (C3) s (C6)	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomo	ndicators (i Soil Crack le Patterns ason Water n Burrows (i on Visible o or Stresse rphic Positio eutral Test (minimum of f s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	wo require
Depth (in Remarks: This data for Errata. (http://www.communication.com/depth/scales) HYDROLC Wetland Hy Primary India Surface High Wa Saturation Water M Sedimer Drift Depth/sedimer Algal Ma Iron Depth/sedimer Inundatia Sparsely Field Obser Surface Water Table Saturation P (includes cales)	m is revised from Midw//www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial Ima vegetated Concave S vations: er Present? Yes resent? Yes resent? Yes oillary fringe)	vest Reginternet/F	red; check all that Water-State Aquatic Fate True Aquatic Fate Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or Other (Ext	apply) apply) apply) apply apply	ves (B9) 3) s (B14) Odor (C1 eres on leted Iron (tion in Ti (C7) a (D9) elemarks) nches): _ nches): _ nches): _) Living Ro C4) Illed Soils	NRCS Field () coots (C3) s (C6) Wetland	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomoi FAC-Ne	ndicators (i Soil Crack le Patterns ason Water n Burrows (i on Visible o or Stresse rphic Positio eutral Test (minimum of the second (B10) Table (C2) C8) on Aerial Imade d Plants (D1) on (D2) (D5)	wo require
Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Water Table Saturation P (includes ca	m is revised from Midw//www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Ima v Vegetated Concave S vations: er Present? Yes Present? Yes resent? Yes	vest Reginternet/F	red; check all that Water-State Aquatic Fate True Aquatic Fate Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or Other (Ext	apply) apply) apply) apply apply	ves (B9) 3) s (B14) Odor (C1 eres on leted Iron (tion in Ti (C7) a (D9) elemarks) nches): _ nches): _ nches): _) Living Ro C4) Illed Soils	NRCS Field () coots (C3) s (C6) Wetland	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomoi FAC-Ne	ndicators (i Soil Crack le Patterns ason Water n Burrows (i on Visible o or Stresse rphic Positio eutral Test (minimum of the second (B10) Table (C2) C8) on Aerial Imade d Plants (D1) on (D2) (D5)	wo require
Depth (in Remarks: This data for Errata. (http://www.communication.com/depth/scales) HYDROLC Wetland Hy Primary India Surface High Wa Saturation Water M Sedimer Drift Depth/sedimer Algal Ma Iron Depth/sedimer Inundatia Sparsely Field Obser Surface Water Table Saturation P (includes cales)	m is revised from Midw//www.nrcs.usda.gov/l OGY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial Ima vegetated Concave S vations: er Present? Yes resent? Yes resent? Yes oillary fringe)	vest Reginternet/F	red; check all that Water-State Aquatic Fate True Aquatic Fate Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or Other (Ext	apply) apply) apply) apply apply	ves (B9) 3) s (B14) Odor (C1 eres on leted Iron (tion in Ti (C7) a (D9) elemarks) nches): _ nches): _ nches): _) Living Ro C4) Illed Soils	NRCS Field () coots (C3) s (C6) Wetland	Secondary I Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomoi FAC-Ne	ndicators (i Soil Crack le Patterns ason Water n Burrows (i on Visible o or Stresse rphic Positio eutral Test (minimum of the second (B10) Table (C2) C8) on Aerial Imade d Plants (D1) on (D2) (D5)	wo require

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	ect	City/Cour	nty: Fort Wa	yne/Allen	Sampling Dat	te: <u>9/20/</u>	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Poi	nt: D	P 30
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	nge: Section 05, Town	ship 31 N, Ranç	ge 13 E	
Landform (hillside, terrace, etc.): Depression		L	_ocal relief (c	oncave, convex, none):	Concave		
Slope (%): 0 Lat: 41.166006		Long:8	35.099754		Datum: WGS_1	1984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	slopes, ero	ded (MrB2)		NWI classif	fication: N/A		
Are climatic / hydrologic conditions on the site typical for	this time of	year?	Yes X	No (If no, exp	olain in Remarks	s.)	
Are Vegetation , Soil , or Hydrology si	gnificantly d	isturbed? A	re "Normal C	ircumstances" present?	Yes X	No	
Are Vegetation, Soil, or Hydrologyna	aturally prob	lematic? (I	f needed, ex	olain any answers in Re	marks.)		_
SUMMARY OF FINDINGS – Attach site ma	p showin	g samplin	g point lo	cations, transects	, important f	eatures	, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No			Sampled Arn a Wetland?		No		
Wetland Hydrology Present? Yes X No							
Remarks: DP 30 is representative of Wetland 14-A. VEGETATION – Use scientific names of plan	nts.						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wor	ksheet:		
1. 2.				Number of Dominant Are OBL, FACW, or F	•	2	(A)
3.				Total Number of Dom	_		_ ` ′
4.				Across All Strata:		2	(B)
5				Percent of Dominant S	•		
0 1 10 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	=	Total Cover		Are OBL, FACW, or F	AC: _	100.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft) 1. Ulmus americana	5	Yes	FACW	Prevalence Index wo	rksheet:		
Cornus drummondii	1	No	FAC	Total % Cover of		tiply by:	
3. Rhamnus cathartica	1	No	FAC	OBL species 9		95	_
4.				FACW species 5	x 2 =	10	_
5				FAC species 4	x 3 = _	12	_
	=	Total Cover		FACU species 3		12	_
Herb Stratum (Plot size: 5 ft)	95	Vaa	OBL	UPL species 0 Column Totals: 10		0 129	_ (D)
Typha angustifolia Dipsacus fullonum	3	Yes No	OBL FACU	Column Totals: 10 Prevalence Index	\ ′	1.21	_(B)
Apocynum cannabinum	2	No	FAC	1 Tovalcinoc index	- D/A -	1.21	_
4.				Hydrophytic Vegetat	ion Indicators:		
5.				1 - Rapid Test for			
6.				X 2 - Dominance Te	est is >50%		
7				X 3 - Prevalence Inc	dex is ≤3.0 ¹		
8				4 - Morphological			
9					s or on a separ		
10	100	Tatal Cause		Problematic Hydro			-
Woody Vine Stratum (Plot size: 30 ft)	100=	Total Cover		¹ Indicators of hydric so be present, unless dis			must
			ŀ		rained of brone	malio.	
2.				Hydrophytic Vegetation			
	=	Total Cover		•	X No_		
Remarks: (Include photo numbers here or on a separa	ite sheet.)			-			

		to the dept				itor or c	onfirm the absence of	of indicators.)
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	97	10YR 4/6	3	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
6-18	10YR 4/2	95	10YR 4/6	5	С	M	Loamy/Clayey	
		·						
-								
1 _{Type:} C=C		letion DM=	Dadwaad Matrix I		lead Cone	Crains	2l coation	. Di -Doro Lining M-Motriy
Hydric Soil	oncentration, D=Dep	ietion, Rivi=	Reduced Matrix, r	vi5=ivias	ked Sand	Grains		: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	wed Mat	riv (S4)			st Prairie Redox (A16)
	oipedon (A2)		Sandy Re					Manganese Masses (F12)
Black Hi			Stripped N					Parent Material (F21)
	en Sulfide (A4)		Dark Surfa		5)			Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu		eral (F1)			r (Explain in Remarks)
	ick (A10)		Loamy Gle	-				(Explain in Nomano)
	d Below Dark Surface	(A11)	X Depleted I	-				
l 	ark Surface (A12)	(, , , , ,	Redox Da	•	,		³ Indicator	rs of hydrophytic vegetation and
	fucky Mineral (S1)		Depleted I		` '	١		and hydrology must be present,
l —	ıcky Peat or Peat (S3	5)	Redox De		` '	'		ss disturbed or problematic.
	Layer (if observed):							·
Type:	Layer (ii observed).							
Depth (ii	nches):						Hydric Soil Present	t? Yes X No
Remarks:			_				,	
	://www.nrcs.usda.gov							s of Hydric Soils, Version 7.0, 2015
HYDROLO	OGY							
	drology Indicators:							
_	cators (minimum of c	ne is requir	ed: check all that :	annly)			Secondar	ry Indicators (minimum of two required)
-	Water (A1)	no io regain	X Water-Sta		ives (B9)			ace Soil Cracks (B6)
	ater Table (A2)		Aquatic Fa					nage Patterns (B10)
Saturation	` '		True Aqua	,	,			Season Water Table (C2)
	larks (B1)		Hydrogen)		fish Burrows (C8)
	nt Deposits (B2)		Oxidized F					ration Visible on Aerial Imagery (C9)
	posits (B3)		Presence			•	` ' 	ted or Stressed Plants (D1)
	at or Crust (B4)		Recent Iro			,		morphic Position (D2)
	oosits (B5)		Thin Muck	Surface	e (C7)			Neutral Test (D5)
	on Visible on Aerial I	magery (B7) Gauge or	Well Dat	a (D9)			` '
Sparsely	/ Vegetated Concave	Surface (B	8) Other (Exp	olain in F	Remarks)			
Field Obser	vations:		<u> </u>					
Surface Wat	ter Present? Ye	S	No X	Depth (i	nches):			
Water Table	Present? Ye	s	No X		nches):			
Saturation P	resent? Ye	s	No X	Depth (i	_		Wetland Hydrolog	gy Present? Yes X No
(includes ca	pillary fringe)							
,	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previou	s inspec	tions), if available:	
Remarks:								

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	ject	City/Cou	nty: Fort Wa	yne/Allen	Sampling [Date: 9/20	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway D	epartment		State: IN	Sampling F	oint: D	P 31
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	inge: Section 05,	Township 31 N, Ra	inge 13 E	
Landform (hillside, terrace, etc.): Tillplain		1	Local relief (d	concave, convex, n	one): Convex		
Slope (%): 1 Lat: 41.165980		Long: -	85.099783		Datum: WGS	5_1984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percer	nt slopes, erc				classification: N/A		
Are climatic / hydrologic conditions on the site typical for			Yes X	No (If n	o, explain in Rema	rks.)	
Are Vegetation, Soil, or Hydrology				<u> </u>			
Are Vegetation, Soil, or Hydrology					· · · · · · · · · · · · · · · · · · ·		_
SUMMARY OF FINDINGS – Attach site ma						t features	s, etc.
Hydrophytic Vegetation Present? Yes No	o X	Is the	Sampled A	rea			
	о <u>Х</u>		n a Wetland		No X	=	
Wetland Hydrology Present? Yes N	о <u>Х</u>			_		_	
Remarks: DP 31 is representative of the upland area surroundir VEGETATION – Use scientific names of pla		4-A and Wetla	and 14-B.				
VEGETATION – Ose scientific flames of pla	Absolute	Dominant	Indicator				
<u>Tree Stratum</u> (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Tes	st worksheet:		
1. Ulmus americana	5	Yes	FACW	Number of Dom	inant Species That		
2. Juniperus virginiana	5	Yes	FACU	Are OBL, FACW	/, or FAC:	3	(A)
3.					Dominant Species		
4				Across All Strata		6	_(B)
5	10	=Total Cover		Percent of Domi Are OBL, FACW	nant Species That I or FAC:	50.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)	10101 00101		7 TO OBE, 17 TOV	,, 01 1 710.	00.070	_(,,,,,,
1. Cornus drummondii	, 5	Yes	FAC	Prevalence Ind	ex worksheet:		
2. Rhamnus cathartica	2	Yes	FAC	Total % Co	ver of: M	ultiply by:	
3.				OBL species	0 x 1 =	0	_
4				FACW species		40	_
5				FAC species	7 x 3 =		_
Hart Otrature (Districts 5.6	7	=Total Cover		FACU species _	87 x 4 =		_
Herb Stratum (Plot size: 5 ft) 1. Dipsacus fullonum	40	Yes	FACU	UPL species _ Column Totals:	0 x 5 =	409	(B)
Schedonorus arundinaceus	25	Yes	FACU	Prevalence Ir		3.59	_(D)
Solidago altissima	15	No	FACU	1 1014101100 11		0.00	_
4. Euthamia graminifolia	10	No	FACW	Hydrophytic Ve	egetation Indicator	rs:	
5. Agrostis gigantea	5	No	FACW	1 - Rapid Te	est for Hydrophytic	Vegetation	
6. Symphyotrichum pilosum	2	No	FACU	2 - Dominar	nce Test is >50%		
7					ice Index is ≤3.0 ¹		
8					ogical Adaptations ¹	•	
9.					emarks or on a sep	•	
10	07	Total Cavar			Hydrophytic Veget		,
Woody Vine Stratum (Plot size: 30 ft	97	=Total Cover			dric soil and wetlan ss disturbed or pro		must
1	,				ac dictar bod or pro	Jonatio.	
2.				Hydrophytic Vegetation			
		=Total Cover		Present?	Yes No	X	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1		_ 	
'	,						

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	100					Loamy/Clayey	
5-18	10YR 4/2	100					Loamy/Clayey	
	<u> </u>							
	<u> </u>							
1							2	
	Concentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Histoso	I Indicators:		Sandy Gle	ved Mat	riv (S4)			for Problematic Hydric Soils ³ : Prairie Redox (A16)
	Epipedon (A2)		Sandy Red	-				inganese Masses (F12)
	listic (A3)		Stripped M	, ,				rent Material (F21)
	en Sulfide (A4)		Dark Surfa	-	<i>)</i>			nallow Dark Surface (F22)
· ·	ed Layers (A5)		Loamy Mu		eral (F1)			Explain in Remarks)
	uck (A10)		Loamy Gle	-				zapidiii iii remarko)
	ed Below Dark Surface	(A11)	Depleted N	-				
	ark Surface (A12)	()	Redox Da	`	,		³ Indicators of	of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted [, ,)		hydrology must be present,
5 cm M	ucky Peat or Peat (S3)		Redox De	pression	s (F8)			disturbed or problematic.
Restrictive	Layer (if observed):							
Type:	• , ,							
Depth (Remarks: This data for	orm is revised from Mid o://www.nrcs.usda.gov/							Yes No >
Depth (Remarks: This data for Errata. (http://pubm.com/	orm is revised from Mid o://www.nrcs.usda.gov/						NRCS Field Indicators o	
Depth (Remarks: This data for Errata. (http://dx.com/	orm is revised from Mid o://www.nrcs.usda.gov/						NRCS Field Indicators o	
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	ject	City/Cou	nty: Fort Wa	iyne/Allen	Sampling Da	te: 9/20/	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	Sampling Poi	int: D	P 32
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	nge: Section 05, Town	ship 31 N, Ran	ge 13 E	
Landform (hillside, terrace, etc.): Depression			Local relief (c	concave, convex, none):	Concave		
Slope (%): 0 Lat: 41.166396			•	•	Datum: WGS	1984	
Soil Map Unit Name: Pewamo silty clay loam, 0 to 1 pe	ercent slopes				fication: N/A		
Are climatic / hydrologic conditions on the site typical for			Yes X	No (If no, exp		e)	
Are Vegetation , Soil , or Hydrology						•	
Are Vegetation , Soil , or Hydrology				plain any answers in Re			_
SUMMARY OF FINDINGS – Attach site ma					·	features	s, etc.
Hydrophytic Vegetation Present? Yes X No	0	Is the	Sampled A	rea			
Hydric Soil Present? Yes X No	0	withir	n a Wetland	? Yes X	No		
Wetland Hydrology Present? Yes X No	o						
Remarks: DP 32 is representative of Wetland 14-B. VEGETATION – Use scientific names of pla	ınts						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wo	rksheet:		
1. Ulmus americana	30	Yes	FACW	Number of Dominant	•		
2. Populus deltoides	20	Yes	FAC	Are OBL, FACW, or F	AC:	4	_(A)
3				Total Number of Dom	inant Species	F	(D)
4				Across All Strata:	_	5	_(B)
5	50	Total Cover		Percent of Dominant : Are OBL, FACW, or F	•	80.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)				_		
1. Cornus racemosa	30	Yes	FAC	Prevalence Index wo	rksheet:		
2				Total % Cover of		tiply by:	_
3.				OBL species 0		0	_
4				· -	10 x 2 = _	220	_
5	30	=Total Cover		FAC species 5 FACU species 5		153 20	_
<u>Herb Stratum</u> (Plot size: 5 ft)		- Total Cover		UPL species (0	_
1. Phalaris arundinacea	75	Yes	FACW	Column Totals: 16		393	(B)
Carex vulpinoidea	5	No	FACW	Prevalence Index	`` /	2.37	_ (-/
3. Symphyotrichum lanceolatum	1	No	FAC				_
4.				Hydrophytic Vegeta	tion Indicators	:	
5.				1 - Rapid Test for	Hydrophytic Ve	egetation	
6				X 2 - Dominance Te	est is >50%		
7				X 3 - Prevalence In			
8.				4 - Morphological	Adaptations¹ (F s or on a separ		
9.					•		
10	81	=Total Cover		Problematic Hydr			,
Woody Vine Stratum (Plot size: 30 ft)	- i Ulai CUVEI		¹ Indicators of hydric s be present, unless dis			must
1. Vitis labrusca	, 5	Yes	FACU				
2.				Hydrophytic Vegetation			
	5 :	Total Cover		_	X No		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			•			
	•						

Profile Desc Depth	Matrix		Redo	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure		Remarks	
0-18	10YR 4/2	97	10YR 4/6	3	C		Loamy/0		Promine	nt redox conce	entrations
¹ Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains		² Location:	PL=Pore Li	ining, M=Matri	Х.
Hydric Soil	Indicators:									matic Hydric	•
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)			Coast	Prairie Red	ox (A16)	
Histic Ep	oipedon (A2)		Sandy Red	dox (S5)				Iron-M	langanese N	Masses (F12)	
Black Hi	stic (A3)		Stripped M	latrix (S	3)			Red F	arent Mater	ial (F21)	
Hydroge	n Sulfide (A4)		Dark Surfa	ce (S7)				Very S	Shallow Dark	k Surface (F22	2)
Stratified	l Layers (A5)		Loamy Mu	-				Other	(Explain in F	Remarks)	
2 cm Mu	ıck (A10)		Loamy Gle	yed Ma	trix (F2)						
	d Below Dark Surface	(A11)	X Depleted N	,	,			•			
	ark Surface (A12)		Redox Dar		` '					ytic vegetation	
	lucky Mineral (S1)		Depleted [` ′	1				must be pres	
5 cm Mu	icky Peat or Peat (S3)	Redox De	oression	s (F8)			unless	s disturbed o	or problematic.	
Restrictive	Layer (if observed):										
Туре:											
Type:	rm is revised from Mic									Yes X	No 0, 2015
Type:	m is revised from Mic						NRCS Field				
Type:	m is revised from Mic //www.nrcs.usda.gov						NRCS Field				
Type:	m is revised from Mic //www.nrcs.usda.gov.	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field				
Type:	m is revised from Mic //www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field	Indicators Secondary	of Hydric So	oils, Version 7.	0, 2015
Type:	orm is revised from Mic //www.nrcs.usda.gov/	/Internet/F	red; check all that a	/nrcs142 apply) ned Lea	2p2_0512	293.docx	NRCS Field	Indicators Secondary	of Hydric So	(minimum of to	0, 2015
Type:	OGY drology Indicators: cators (minimum of or Water (A1) tter Table (A2)	/Internet/F	red; check all that a	apply) ned Lea	2p2_0512 nves (B9) 3)	293.docx	NRCS Field	Indicators Secondary Surface Draina	of Hydric So / Indicators (ce Soil Crack	(minimum of to	0, 2015
Type:	OGY drology Indicators: cators (minimum of or Water (A1) tter Table (A2) on (A3)	/Internet/F	red; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ned Lea una (B1 tic Plant	aves (B9) 3) s (B14)	293.docx	NRCS Field	Secondary Surface Draina	of Hydric So / Indicators (ce Soil Crack age Patterns eason Wate	(minimum of toks (B6)); (B10)	0, 2015
Type:	OGY drology Indicators: cators (minimum of or Water (A1) iter Table (A2) on (A3) arks (B1)	/Internet/F	red; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ned Lea una (B1 tic Plant	ves (B9) 3) s (B14) Odor (C1)	NRCS Field	Secondar Surfac Draina Dry-S	of Hydric So / Indicators (ce Soil Crack age Patterns eason Water sh Burrows	(minimum of toks (B6) (B10) r Table (C2) (C8)	0, 2015
Type:	orm is revised from Michigan M	/Internet/F	red; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ned Lea una (B1 tic Plant Sulfide (thizosph	nves (B9) 3) s (B14) Odor (C1 heres on l) Living Ro	NRCS Field	Secondary Surface Draina Dry-S Crayfi	of Hydric So y Indicators (ce Soil Crack age Patterns eason Water sh Burrows ation Visible	(minimum of tooks (B6) r Table (C2) (C8) on Aerial Image	0, 2015 vo require
Type:	drology Indicators: (A1) (Mater Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	/Internet/F	red; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduce	Ives (B9) 3) s (B14) Odor (C1) eres on I) Living Ro	NRCS Field	Secondary Surface Draina Dry-S Crayfi Satura	of Hydric So y Indicators (ce Soil Crack age Patterns eason Water sh Burrows ation Visible ed or Stresse	(minimum of tooks (B6)) s (B10) r Table (C2) (C8) on Aerial Imaged Plants (D1)	0, 2015 vo require
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cour	nty: Fort Wa	ayne/Allen	Sampling Date:	9/20/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	partment		State: IN	Sampling Point:	DP 33
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	ange: Section 05, Town	ship 31 N, Range	13 E
Landform (hillside, terrace, etc.): Depression		ι	Local relief (c	concave, convex, none):	Concave	
Slope (%):0 _ Lat: 41.167722		Long: <u>-</u> {	85.096445		Datum: WGS_198	84
Soil Map Unit Name: Blount loam, interlobate moraines	s, 0 to 2 perc	ent slopes (Br	mA)	NWI classif	ication: N/A	<u> </u>
Are climatic / hydrologic conditions on the site typical for	or this time of	year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrologys	significantly d				Yes X N	10
Are Vegetation, Soil, or Hydrologyn	naturally prot	olematic? (I	If needed, ex	ιρlain any answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach site ma	ap showin	g samplin	g point lo	cations, transects	, important fea	atures, etc.
Hydrophytic Vegetation Present? Yes X No	0	Is the	Sampled A	rea		
	o		n a Wetland?		No	
Wetland Hydrology Present? Yes X No	0					
Remarks: DP 33 is representative of Wetland 15.						
DI 30 is representante di violana 10.						
VEGETATION – Use scientific names of pla						
000 00000000000000000000000000000000000	Absolute	Dominant	Indicator	1		
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
1.				Number of Dominant	•	^ (A)
2.				Are OBL, FACW, or F		2 (A)
3	· ·			Total Number of Domi	nant Species	3 (B)
5.						(D)
J		=Total Cover		Percent of Dominant S Are OBL, FACW, or F	•	66.7% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)				·		<u> </u>
1.				Prevalence Index wo	rksheet:	
2				Total % Cover of		
3.				OBL species 30		30
4				FACW species 60		120
5	 .	Total Caver		FACUL appaies 4		12
Herb Stratum (Plot size: 5 ft)		=Total Cover		FACU species 1: UPL species 0		0
1. Echinochloa crus-galli	60	Yes	FACW	Column Totals: 10		206 (B)
Typha angustifolia	30	Yes	OBL	Prevalence Index :	`` /	
3. Schedonorus arundinaceus	6	No	FACU			
4. Juncus tenuis	4	No	FAC	Hydrophytic Vegetat	ion Indicators:	
5.				1 - Rapid Test for	Hydrophytic Vege	etation
6.				X 2 - Dominance Te	est is >50%	
7				X 3 - Prevalence Inc		
8					Adaptations ¹ (Pro	
9					s or on a separate	
10				<u> </u>	ophytic Vegetation	, , ,
Mandy Vina Stratum (Plat size: 30 ft	100 =	=Total Cover		¹ Indicators of hydric so		
Woody Vine Stratum) 5	Yes	FACU	be present, unless dis	turbed or problem	atic.
2.		163	TAGG	Hydrophytic		
	5 =	=Total Cover		Vegetation Present? Yes	X No	
Remarks: (Include photo numbers here or on a separ				-	_	
Trontaire: (madaa priata 12.12.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	ato ones.,					

	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/2	95	10YR 3/6	5	С	М	Loamy/Clayey	Prominent redox concentrations
4-18	10YR 4/2	90	10YR 5/6	10	С	М	Loamy/Clayey	
	-		-					
¹ Type: C=0	Concentration, D=Depl	etion, RM	=Reduced Matrix, I	иS=Mas	ked San	d Grains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soi	I Indicators:						Indicato	rs for Problematic Hydric Soils ³ :
Histoso	l (A1)		Sandy Gle	yed Mat	rix (S4)		Coa	st Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy Re	, ,			Iron-	Manganese Masses (F12)
	listic (A3)		Stripped M	,	6)			Parent Material (F21)
	en Sulfide (A4)		Dark Surfa					Shallow Dark Surface (F22)
	ed Layers (A5)		Loamy Mu	-			Othe	r (Explain in Remarks)
	uck (A10)		Loamy Gle	-				
	ed Below Dark Surface	(A11)	X Depleted I	-	•		3	
	eark Surface (A12)		Redox Da		. ,			rs of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted I		` ')		and hydrology must be present,
	ucky Peat or Peat (S3)	Redox De	pression	s (FO)		unie	ss disturbed or problematic.
	Layer (if observed):							
Type:								
Denth (inches).						Hydric Soil Presen	t? Yes X No
Remarks: This data fo	orm is revised from Mico://www.nrcs.usda.gov							s of Hydric Soils, Version 7.0, 2015
Remarks: This data fo	orm is revised from Mic						NRCS Field Indicator	
Remarks: This data fo Errata. (http	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicator	
Remarks: This data fo Errata. (http	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicator	
Remarks: This data for Errata. (http://www.http.//www.h	orm is revised from Mic o://www.nrcs.usda.gov/	/Internet/F	SE_DOCUMENTS	i/nrcs142			NRCS Field Indicator) Seconda	s of Hydric Soils, Version 7.0, 2015
Remarks: This data for Errata. (http://www.http.com/ HYDROLO Wetland Hyprimary Indianary Indiana	orm is revised from Mic o://www.nrcs.usda.gov. OGY ydrology Indicators:	/Internet/F	ired; check all that a	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicator) SecondaSurf	s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two require ace Soil Cracks (B6)
Remarks: This data for Errata. (http://www.defand.html.) Primary Ind Surface High W	OGY ydrology Indicators: Example 2 Water (A1) later Table (A2)	/Internet/F	ired; check all that a Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicator) Seconda Surfa	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10)
Remarks: This data for Errata. (http://www.indox.org/line) Wetland Hyprimary India Surface High W Saturat	OGY ydrology Indicators: bicators (minimum of or e) Water (A1) ater Table (A2) ion (A3)	/Internet/F	ired; check all that a water-Sta	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicator) Seconda Surf. Draii Dry-	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Remarks: This data for Errata. (http://www.ind.) Wetland Hy Primary Ind. Surface. High W Saturat Water M	OGY ydrology Indicators: bicators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1)	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 titic Plant	ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicator) Seconda Surfa Draii Dry- Cray	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Remarks: This data for Errata. (http://www.ntm.) HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M Sedime	orm is revised from Micocy//www.nrcs.usda.gov/ DGY ydrology Indicators: dicators (minimum of ore water (A1) dater Table (A2) dion (A3) Marks (B1) ent Deposits (B2)	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1 eres on) Living Ro	NRCS Field Indicator Seconda Surfa Drai Dry- Cray nots (C3) Satu	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M Sedime Drift De	OGY ydrology Indicators: bicators (minimum of or water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	/Internet/F	ired; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ced Iron (ced)) Living Rc	Seconda Surfa Drai Dry- Cray sots (C3) Satu	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Remarks: This data for Errata. (http://www.communication.com//www.com	orm is revised from Mico://www.nrcs.usda.gov.	/Internet/F	ired; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (tion in Ti) Living Rc	Seconda	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ect	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Dat	te: <u>9/20/</u>	/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	epartment		State: IN	Sampling Poi	nt: D	P 34
Investigator(s): Josh Iddings and Alyssa Damiano		Section, T	ownship, Ra	inge: Section 05, Town	ship 31 N, Ranç	ge 13 E	
Landform (hillside, terrace, etc.): Tillplain			Local relief (d	concave, convex, none):	Convex		
Slope (%): 1 Lat: 41.167731		Long: -	85.096503	•	Datum: WGS_1	1984	
Soil Map Unit Name: Blount loam, interlobate moraines	, 0 to 2 perc				fication: N/A		
Are climatic / hydrologic conditions on the site typical fo			Yes X			s.)	
Are Vegetation , Soil , or Hydrology s		•				•	
Are Vegetation, Soil, or Hydrologyn							_
SUMMARY OF FINDINGS – Attach site ma						features	, etc.
Hydrophytic Vegetation Present? Yes No	X	Is the	Sampled A	rea			
	X		n a Wetland		No X		
	Х						
Remarks:		<u>'</u>					
DP 34 is representative of of the upland area surround	ing Wetland	15.					
VEGETATION – Use scientific names of plan							
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rkshoot:		
1.	70 COVEI	Species:	Status				
2.				Number of Dominant Are OBL, FACW, or F	•	1	(A)
3.				Total Number of Dom	inant Species		_
4.				Across All Strata:	_	4	(B)
5				Percent of Dominant	Species That		
	=	=Total Cover		Are OBL, FACW, or F	AC: _	25.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)	40	V	LIDI	Blana			
Pyrus calleryana Elaeagnus umbellata	<u>10</u> 5	Yes Yes	UPL UPL	Prevalence Index wo Total % Cover of		tiply by:	
Cornus drummondii	5	Yes	FAC	OBL species (tiply by: 0	-
4.		100		FACW species (0	_
5.				FAC species 1		30	_
	20 =	Total Cover		FACU species 9	4 x 4 =	376	_
Herb Stratum (Plot size: 5 ft)				UPL species 1	6 x 5 =	80	_
1. Dipsacus fullonum	85	Yes	FACU	Column Totals: 12	20 (A)	486	_(B)
2. Schedonorus arundinaceus	9	No	FACU	Prevalence Index	= B/A =	4.05	_
3. Setaria pumila	5	No No	FAC				
4. <u>Setaria viridis</u>	1	<u>No</u>	UPL	Hydrophytic Vegetat			
5. 6.				1 - Rapid Test for 2 - Dominance Te		getation	
				3 - Prevalence In			
8				4 - Morphological		rovide sur	pportina
9.				· —	ks or on a separ		
10.				Problematic Hydr	ophytic Vegetat	ion ¹ (Expla	ain)
	100 =	Total Cover		¹ Indicators of hydric s	oil and wetland	hydrology	must
Woody Vine Stratum (Plot size: 30 ft)				be present, unless dis			
1				Hydrophytic			
2		Tatal O		Vegetation	A1 .	V	
		=Total Cover		Present? Yes	No	<u>×</u>	
Remarks: (Include photo numbers here or on a separa	ate sheet.)						

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/2	100					Loamy/Clayey	
3-18	10YR 4/2	100					Loamy/Clayey	
	<u> </u>							
	<u> </u>							
1- 0.4							2, ,	N. D
	Concentration, D=Deple I Indicators:	etion, RIM	=Reduced Matrix, I	viS=Mas	ked Sand	Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histoso			Sandy Gle	ved Mat	rix (S4)			Prairie Redox (A16)
	pipedon (A2)		Sandy Re	-	11X (O-1)			nganese Masses (F12)
	listic (A3)		Stripped M	, ,	3)			rent Material (F21)
	en Sulfide (A4)		Dark Surfa	-	,			nallow Dark Surface (F22)
<u> </u>	ed Layers (A5)		Loamy Mu	` '	eral (F1)			Explain in Remarks)
	uck (A10)		Loamy Gle					,
	ed Below Dark Surface	(A11)	Depleted I	•	٠,			
 Thick D	ark Surface (A12)	,	Redox Da	`	,		³ Indicators of	of hydrophytic vegetation and
Sandy I	Mucky Mineral (S1)		Depleted I	Dark Sur	face (F7))	wetland	hydrology must be present,
5 cm M	ucky Peat or Peat (S3)		Redox De	pression	s (F8)		unless	disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Remarks: This data fo	orm is revised from Mid							Yes No >
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Remarks: This data for Errata. (http://www.init.com/init.	porm is revised from Mid p://www.nrcs.usda.gov/ pormis revised from Mid p://www.nrcs.usda.gov/ portology Indicators: licators (minimum of or portology Indicators: licators (minimum of or portology Indicators: licators (minimum of or portology Indicators: licators (minimum of or portology Indicators: partology Indicators: licators (Mal) partology Indicators: partology Indi	ne is requi	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Facence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Illed Soils	Secondary Surface Drainag Dry-Sea Crayfisl oots (C3) Stunted S(C6) Geomo	Indicators (minimum of two requires Soil Cracks (B6) se Patterns (B10) ason Water Table (C2) substituting Burrows (C8) son Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
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Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Sparse	orm is revised from Mid o://www.nrcs.usda.gov/ ordrology Indicators: licators (minimum of or ordrology Indicators: licators (Mal) ater Table (A2) ion (A3) Marks (B1) ordrology Indicators: licators (Mal) ater Table (A2) ion (A3) Marks (B1) ordrology Indicators: licators (Mal) ater Table (A2) ion (A3) ion	ne is requi	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ted Iron (tion in Ti (C7) a (D9) temarks)) Living Ro (C4) Illed Soils	Secondary Surface Drainag Dry-Sea Crayfisl oots (C3) Stunted S(C6) Geomo	Indicators (minimum of two requires Soil Cracks (B6) se Patterns (B10) ason Water Table (C2) substituting Burrows (C8) son Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Remarks: This data for Errata. (http://www.inites.com/i	orm is revised from Mid o://www.nrcs.usda.gov/ ordrology Indicators: dicators (minimum of ore ordrology Indicators: dicators (Mal) dicator (Mal) dicators (Mal) d	nagery (Bi	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or 38) Other (Exp.	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainag Dry-Sea Crayfisl oots (C3) Stunted S(C6) Geomo	Indicators (minimum of two requires Soil Cracks (B6) Jee Patterns (B10) Jeason Water Table (C2) Jen Burrows (C8) Jen Visible on Aerial Imagery (C9) Jer Stressed Plants (D1) Tephic Position (D2) Jeutral Test (D5)
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Sparse Field Obse Surface Water Table Saturation I	orm is revised from Mid o://www.nrcs.usda.gov/ ordrology Indicators: dicators (minimum of ore ordrology Marks (Marks (Mar	nagery (Bi	red; check all that a Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck (7) Gauge or Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc n Reduc Surface Well Dat Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainag Dry-Sea Crayfisl Stunted S (C6) FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) Jee Patterns (B10) Jeason Water Table (C2) Jen Burrows (C8) Jen Visible on Aerial Imagery (C9) Jer Stressed Plants (D1) Tephic Position (D2) Jeutral Test (D5)
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Sparse Field Obse Surface Water Table Saturation If (includes ca	orm is revised from Mid of the Mi	nagery (B7 Surface (B	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on leted Iron (tion in Ti (C7) a (D9) emarks) nches):nches):nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainag Dry-Sea Crayfisl Stunted S(C6) FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) Jee Patterns (B10) Jeason Water Table (C2) Jen Burrows (C8) Jen Visible on Aerial Imagery (C9) Jer Stressed Plants (D1) Tephic Position (D2) Jeutral Test (D5)
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Sparse Field Obse Surface Water Table Saturation If (includes ca	orm is revised from Mid o://www.nrcs.usda.gov/ pdrology Indicators: licators (minimum of or e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) posits (B5) ion Visible on Aerial Im ly Vegetated Concave ervations: ater Present? Present? Present? Yes apillary fringe)	nagery (B7 Surface (B	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on leted Iron (tion in Ti (C7) a (D9) emarks) nches):nches):nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainag Dry-Sea Crayfisl Stunted S(C6) FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) Jee Patterns (B10) Jeason Water Table (C2) Jen Burrows (C8) Jen Visible on Aerial Imagery (C9) Jer Stressed Plants (D1) Tephic Position (D2) Jeutral Test (D5)
Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Sparse Field Obse Surface Water Table Saturation I (includes ca	orm is revised from Mid o://www.nrcs.usda.gov/ pdrology Indicators: licators (minimum of or e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) posits (B5) ion Visible on Aerial Im ly Vegetated Concave ervations: ater Present? Present? Yes apillary fringe)	nagery (B7 Surface (B	red; check all that a water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or Other (Exp. No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	ves (B9) 3) s (B14) Odor (C1 eres on leted Iron (tion in Ti (C7) a (D9) emarks) nches):nches):nches): _) Living Ro (C4) Illed Soils	Secondary Surface Drainag Dry-Sea Crayfisl Stunted S(C6) FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) Jee Patterns (B10) Jeason Water Table (C2) Jen Burrows (C8) Jen Visible on Aerial Imagery (C9) Jer Stressed Plants (D1) Tephic Position (D2) Jeutral Test (D5)

Midwest Region

Applicant/Owner:	
Local relief (concave, convex, none): Concave Slope (%): 1	ttc.
Slope (%): _ 1	tc.
Soil Map Unit Name: Blount loam, interlobate moraines, 0 to 2 percent slopes (BmA) NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes X No	tc.
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes X No	tc.
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? YesX No	
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes X No	tc
Hydrophytic Vegetation Present? Yes X No Wetland? Yes X No Within a Wetland? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No Description are sof plants. VEGETATION - Use scientific names of plants.	tc
Hydric Soil Present? Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No Wetland? Yes X No Remarks: DP 35 is representative of Wetland 16. VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft)	
Hydric Soil Present? Yes X No Wetland? Yes X No Wetland Hydrology Present? Yes X No Remarks: DP 35 is representative of Wetland 16. VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft) Absolute Species? Status Dominant Species That Are OBL, FACW, or FAC: 2 (A) 3.	
Remarks: DP 35 is representative of Wetland 16.	
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft) Absolute % Cover Species? Status Dominant Indicator Species? Status Dominance Test worksheet: 1	
Absolute Dominant Indicator Species? Status 1.	
Tree Stratum (Plot size: 30 ft) % Cover Species? Status Dominance Test worksheet: 1. Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) 3. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A)	
1. Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) 3. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/	
2. Are OBL, FACW, or FAC: 2 (A) 3. Total Number of Dominant Species 4. Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A)	
3 Total Number of Dominant Species Across All Strata: 2 (B) 5 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/	.)
4. Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/	,
5.)
·	
	/B)
Sapling/Shrub Stratum (Plot size: 15 ft)	
1 Prevalence Index worksheet: 2. Total % Cover of: Multiply by:	
ORI species 10 v.1 - 10	
4. FACW species 30 x 2 = 60	
5. FAC species 0 x 3 = 0	
=Total Cover FACU species 0 x 4 = 0	
Herb Stratum (Plot size: 5 ft) UPL species 0 x 5 = 0	
1. Echinochloa crus-galli 25 Yes FACW Column Totals: 40 (A) 70 (B))
2. Typha angustifolia 10 Yes OBL Prevalence Index = B/A = 1.75	
3. Cyperus esculentus 5 No FACW	
4 Hydrophytic Vegetation Indicators:	
51 - Rapid Test for Hydrophytic Vegetation 6. X 2 - Dominance Test is >50%	
7X_3 - Prevalence Index is ≤3.0° 84 - Morphological Adaptations¹ (Provide suppor	rtina
9 data in Remarks or on a separate sheet)	5
10Problematic Hydrophytic Vegetation ¹ (Explain)	
40 =Total Cover Indicators of hydric soil and wetland hydrology mus	st
Woody Vine Stratum (Plot size: 30 ft) be present, unless disturbed or problematic.	
1 Hydrophytic	
2 Vegetation	
=Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)	

	cription: (Describe	to the dep				tor or c	confirm the absence of	indicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/2	100					Loamy/Clayey	
3-9	10YR 5/1	95	10YR 5/6	5	<u>C</u>	M	Loamy/Clayey	
9-18	10YR 5/1	80	10YR 5/4	20	C	М	Loamy/Clayey	
¹ Type: C=C	oncentration, D=Dep	letion RM:	=Reduced Matrix M	 eeM=2N	ked Sand		² l ocation:	PL=Pore Lining, M=Matrix.
Hydric Soil		netion, raivi-	-reduced Matrix, I	vio-ivias	ikea Garie	Oranis		for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	ved Mat	rix (S4)			Prairie Redox (A16)
	pipedon (A2)		Sandy Red					anganese Masses (F12)
Black His			Stripped M				Red Pa	arent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very S	hallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	cky Min	eral (F1)		Other ((Explain in Remarks)
2 cm Mu	ick (A10)		Loamy Gle	eyed Ma	trix (F2)			
X Depleted	d Below Dark Surface	e (A11)	X Depleted I	Matrix (F	3)		•	
	ark Surface (A12)		Redox Da		` '			of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted [` '			d hydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)	Redox De	pression	s (F8)		unless	disturbed or problematic.
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present?	Yes <u>X</u> No
Remarks:								
	m is revised from Mi ://www.nrcs.usda.gov							of Hydric Soils, Version 7.0, 2015
Errata. (mtp.	,,,www.iiioo.aoaa.go	Villicinicum	0L_D000ME1110	711100142	_pz_0012	.00.000	\)	
HYDROLO)GY							
	drology Indicators:							
_	cators (minimum of c		red: check all that :	annly)			Secondary	Indicators (minimum of two required)
-	Water (A1)	nie is requi	Water-Sta		ives (B9)			e Soil Cracks (B6)
	iter Table (A2)		Aquatic Fa					ge Patterns (B10)
Saturation	` '		True Aqua	`	,			eason Water Table (C2)
	arks (B1)		Hydrogen)	 '	sh Burrows (C8)
	nt Deposits (B2)		Oxidized F					tion Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Redu	ced Iron (C4)	Stunte	d or Stressed Plants (D1)
X Algal Ma	it or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	s (C6) X Geomo	orphic Position (D2)
	osits (B5)		Thin Muck	Surface	e (C7)		X FAC-N	leutral Test (D5)
Inundatio	on Visible on Aerial I	magery (B7	7) Gauge or '	Well Dat	a (D9)			
Sparsely	Vegetated Concave	e Surface (E	38)Other (Exp	olain in F	Remarks)		_	
Field Obser	vations:							
Surface Wat	er Present? Ye	es		Depth (i	nches):			
Water Table					nches):			
Saturation P		es	No X	Depth (i	nches):		Wetland Hydrology	Present? Yes X No
(includes car	· · ·			Laste 1			tions) if and it is	
Describe Re	corded Data (stream	ı gauge, mo	onitoring well, aeria	ıı pnotos	, previous	s inspec	tions), it available:	
Remarks:								
r torriar No.								

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	ct	City/Cour	nty: Fort Wa	yne/Allen	Sampling Date:	9/20/2022
Applicant/Owner: City of Fort Wayne and Allen Co. H	Highway De	partment	<u>-</u>	State: IN	Sampling Point:	DP 36
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	ange: Section 05, Towns	ship 31 N, Range	13 E
Landform (hillside, terrace, etc.): Tillplain	<u> </u>	լ	_ocal relief (c	concave, convex, none):	Convex	<u> </u>
Slope (%):1 Lat: 41.167833		Long:{	35.095863		 Datum: <u>WGS_198</u>	34
Soil Map Unit Name: Blount loam, interlobate moraines,	0 to 2 perce					
Are climatic / hydrologic conditions on the site typical for			Yes X			
Are Vegetation , Soil , or Hydrology sig		-		· 		0
Are Vegetation , Soil , or Hydrology na						
SUMMARY OF FINDINGS – Attach site map						itures, etc.
Hydrophytic Vegetation Present? Yes No	Х	Is the	Sampled Ar	rea		
			n a Wetland?		No_X	
Wetland Hydrology Present? Yes No	Χ					
Remarks:						
DP 36 is representative of the upland area surrounding	Wetland 16	i.				
VECTATION III						
VEGETATION – Use scientific names of plant		Deminant	Indicator	г		
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	rksheet:	
1				Number of Dominant S		
2.				Are OBL, FACW, or F	•	1 (A)
3.				Total Number of Domi	inant Species	
4				Across All Strata:		2 (B)
5		- · · · · · · · · · · · · · · · · · · ·		Percent of Dominant S	•	2 22/ /A/D)
Sapling/Shrub Stratum (Plot size: 15 ft)	=	=Total Cover		Are OBL, FACW, or F	AC: <u>5</u>	0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft) 1.			ŀ	Prevalence Index wo	orksheet:	
				Total % Cover of		v bv.
3.				OBL species 0		0
4.				FACW species 10		20
5.				FAC species 36	6 x 3 =	108
<u></u>	=	Total Cover		FACU species 50	0 x 4 =	200
Herb Stratum (Plot size: 5 ft)				UPL species4		20
1. Poa pratensis	36	Yes	FAC	Column Totals: 10	` ′	348 (B)
2. Dipsacus fullonum	25	Yes	FACU	Prevalence Index =	= B/A = <u>3.48</u>	8
3. Solidago altissima	15	No No	FACU	Under bytic Venetal	u Indiantous	
Asclepias verticillata Symphyotrichum novae-angliae	<u>10</u> 5	No No	FACU FACW	Hydrophytic Vegetat	tion indicators: · Hydrophytic Vege	tation
6. Euthamia graminifolia	<u>5</u>	No	FACW	2 - Dominance Te		lauon
7. Daucus carota	2	No	UPL	3 - Prevalence Inc		
8. Symphyotrichum oolentangiense	2	No	UPL		Adaptations ¹ (Prov	vide supporting
9.	<u>———</u>				s or on a separate	
10				Problematic Hydro	ophytic Vegetation	¹ (Explain)
	100 =	Total Cover		¹ Indicators of hydric so	oil and wetland hyd	drology must
Woody Vine Stratum (Plot size: 30 ft)				be present, unless dis	turbed or problema	atic.
1				Hydrophytic		
2				Vegetation	No. V	
_	-	=Total Cover		Present? Yes	No X	
Remarks: (Include photo numbers here or on a separat	te sheet.)					

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	100					Loamy/Clayey	
5-18	10YR 5/1	90	10YR 5/6	10	С	M	Loamy/Clayey	
			,					
		 ·						
1- 0 (D 1 11111				21 11 5	
	Concentration, D=Depl	etion, RM	=Reduced Matrix, I	/IS=Mas	ked Sand	Grains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histoso			Sandy Gle	ved Mat	rix (S4)			rairie Redox (A16)
	pipedon (A2)		Sandy Re	-	11X (O+)			nganese Masses (F12)
	listic (A3)		Stripped M	, ,	3)			ent Material (F21)
	en Sulfide (A4)		Dark Surfa	-	,			allow Dark Surface (F22)
` `	ed Layers (A5)		Loamy Mu		eral (F1)			Explain in Remarks)
	uck (A10)		Loamy Gle	-				,
	ed Below Dark Surface	(A11)	X Depleted I	-				
	ark Surface (A12)	,	Redox Da		-		³ Indicators o	f hydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted I	Dark Sur	face (F7))	wetland	hydrology must be present,
5 cm M	ucky Peat or Peat (S3)	Redox De	pression	s (F8)		unless o	listurbed or problematic.
Restrictive	Layer (if observed):							
Type:								
ıype.								
Depth (Remarks: This data for	orm is revised from Mic							Yes X No
Depth (Remarks: This data for Errata. (http://pubm.com/	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://pubs.com/	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicators of	
Depth (Remarks: This data for Errata. (http://pubm.com/details.) HYDROLO Wetland Hydrony	orm is revised from Micocy//www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicators of	Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http://process.com/depth/9000000000000000000000000000000000000	orm is revised from Micocyl/www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicators of) Secondary I	Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http://prescripts.com/defended-to-the-com/defe	orm is revised from Mico://www.nrcs.usda.gov OGY ydrology Indicators: licators (minimum of o	/Internet/F	SE_DOCUMENTS	/nrcs142 apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of) Secondary I Surface	Hydric Soils, Version 7.0, 2015 ndicators (minimum of two required Soil Cracks (B6)
Depth (Remarks: This data for Errata. (http://procedure.com/	OGY ydrology Indicators: licators (minimum of o Water (A1) later Table (A2)	/Internet/F	ired; check all that a water-Sta	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators of) Secondary I Surface Drainag	Hydric Soils, Version 7.0, 2015 Indicators (minimum of two required Soil Cracks (B6) Patterns (B10)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat	OGY OGY ydrology Indicators: licators (minimum of of the Water (A1) ater Table (A2) ion (A3)	/Internet/F	ired; check all that a water-Sta	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicators of) Secondary I Surface Drainag Dry-Sea	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
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US Army Corps of Engineers

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	ect	City/Cour	nty: Fort Wa	yne/Allen	Sampling Da	ite: 9/20/	/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Poi	int: D	P 37
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	nge: Section 05, Town	ship 31 N, Ran	ge 13 E	
Landform (hillside, terrace, etc.): Tillplain		 	_ocal relief (c	oncave, convex, none):	Concave		
Slope (%): 0 Lat: 41.169196		Long: -8	35.093173	_	Datum: WGS_	1984	
Soil Map Unit Name: Blount loam, interlobate moraines	, 0 to 2 perce	ent slopes (Br	mA)	NWI classif	fication: N/A		
Are climatic / hydrologic conditions on the site typical for			Yes X		olain in Remark	s.)	
Are Vegetation , Soil , or Hydrology s	ignificantly d					•	
Are Vegetation , Soil , or Hydrology n							_
SUMMARY OF FINDINGS – Attach site ma						features	, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No			Sampled Ar		No		
Wetland Hydrology Present? Yes X No							
Remarks: DP 37 is representative of Wetland 17. VEGETATION – Use scientific names of plan	nts.						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wor	ksheet:		
1. 2.				Number of Dominant : Are OBL, FACW, or F	•	6	(A)
3				Total Number of Dom	_		_('')
4.				Across All Strata:	mant opecies	7	(B)
5.				Percent of Dominant S	Species That		_
	=	Total Cover		Are OBL, FACW, or F	AC:	85.7%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)	_	V	540				
1. Populus deltoides	<u>5</u> 2	Yes Yes	FAC	Prevalence Index wo Total % Cover of		Itinly by:	
2. <u>Salix nigra</u> 3.		res	OBL	OBL species 1		Itiply by: 15	-
4.				FACW species 4		90	-
5.				FAC species 5		15	-
	7 =	Total Cover		FACU species 1:		48	-
Herb Stratum (Plot size: 5 ft)				UPL species 0) x 5 =	0	_
1. Echinochloa crus-galli	25	Yes	FACW	Column Totals: 7	7 (A)	168	(B)
2. Panicum dichotomiflorum	10	Yes	FACW	Prevalence Index	= B/A =	2.18	_
3. Bidens frondosa	10	Yes	FACW				
4. Juncus effusus	10	Yes	OBL	Hydrophytic Vegetat	ion Indicators	:	
5. Trifolium pratense	10	Yes	FACU	1 - Rapid Test for	Hydrophytic Ve	egetation	
6. Typha angustifolia	3	No	OBL	X 2 - Dominance Te			
7. Dipsacus fullonum	2	No	FACU	X 3 - Prevalence Inc			
8.				4 - Morphological data in Remark			
9.					•		
10		Total Cavar		Problematic Hydro		` .	,
Woody Vine Stratum (Plot size: 30 ft)	70 =	Total Cover		¹ Indicators of hydric so be present, unless dis			must
1.					tarbea or proble	omano.	
2.				Hydrophytic Vegetation			
		Total Cover		•	X No_		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			-			
'	•						

Profile Desc Depth	Matrix		Redo	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure		Remarks	
0-18	10YR 3/1	97	10YR 3/6	3	C	M	Loamy/0	Clayey	Promine	nt redox conc	entrations
							,				
¹ Type: C=C	oncentration, D=Depl	etion, RM:	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains	•	² Location:	PL=Pore Li	ining, M=Matri	x.
Hydric Soil	Indicators:							Indicators	for Proble	matic Hydric	Soils³:
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)			Coast	Prairie Red	ox (A16)	
Histic Ep	pipedon (A2)		Sandy Red	dox (S5)				Iron-M	langanese N	Masses (F12)	
Black Hi	stic (A3)		Stripped M	latrix (S	3)			Red P	arent Materi	ial (F21)	
Hydroge	n Sulfide (A4)		Dark Surfa	ce (S7)				Very S	Shallow Dark	k Surface (F22	2)
Stratified	l Layers (A5)		Loamy Mu	cky Min	eral (F1)			Other	(Explain in F	Remarks)	
2 cm Mu	,		Loamy Gle	-							
<u> </u>	d Below Dark Surface	(A11)	Depleted N	∕latrix (F	3)			•			
	ark Surface (A12)		X Redox Dar		` '					ytic vegetation	
	lucky Mineral (S1)		Depleted [1				must be pres	
5 cm Mu	icky Peat or Peat (S3)	Redox De	oression	s (F8)			unless	disturbed o	or problematic.	
Postrictivo	Layer (if observed):										
Restrictive	• ,										
Type:											
Type:										Yes X	No
Type: _ Depth (ir Remarks: This data for Errata. (http:	m is revised from Mic						NRCS Field				
Type:	m is revised from Mic //www.nrcs.usda.gov						NRCS Field				
Type:	m is revised from Mic //www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field	Indicators	of Hydric Sc	bils, Version 7.	0, 2015
Type:	mches): m is revised from Mic //www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512		NRCS Field	Indicators Secondary	of Hydric Sc	oils, Version 7.	0, 2015
Type:	mis revised from Mic //www.nrcs.usda.gov	/Internet/F	red; check all that a	/nrcs142 apply) ned Lea	2p2_0512		NRCS Field	Indicators Secondary X Surface	of Hydric So / Indicators ((minimum of to	0, 2015
Type:	m is revised from Mic //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of or Water (A1) tter Table (A2)	/Internet/F	red; check all that a	apply) ned Lea	2p2_0512 nves (B9) 3)		NRCS Field	Indicators Secondary X Surface Draina	of Hydric So / Indicators (be Soil Crackage Patterns	(minimum of to	0, 2015
Type:	onches): Imm is revised from Mic I//www.nrcs.usda.gov OGY drology Indicators: cators (minimum of or Water (A1) tter Table (A2) on (A3)	/Internet/F	red; check all that a Water-Stai Aquatic Fa True Aqua	apply) ned Lea una (B1 tic Plant	aves (B9) 3) s (B14)	293.docx	NRCS Field	Secondary X Surfac	of Hydric So / Indicators (ce Soil Crack age Patterns cason Water	(minimum of to	0, 2015
Type:	ordes): Image: mis revised from Michael Micha	/Internet/F	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ned Lea una (B1 tic Plant	ves (B9) 3) s (B14) Odor (C1)	NRCS Field	Secondary X Surfac Draina Dry-Sa	of Hydric Sc / Indicators (ce Soil Crack age Patterns eason Water sh Burrows	(minimum of toks (B6) (B10) r Table (C2) (C8)	0, 2015
Type:	orm is revised from Miches): OGY drology Indicators: cators (minimum of orm Water (A1) ther Table (A2) on (A3) arks (B1) at Deposits (B2)	/Internet/F	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ned Lea una (B1 tic Plant Sulfide (thizosph	nves (B9) 3) s (B14) Odor (C1 heres on l) Living Ro	NRCS Field	Secondary X Surface Dry-Se Crayfi Satura	of Hydric Sc v Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible	(minimum of to ks (B6) r Table (C2) (C8) on Aerial Image	0, 2015 wo required
Type:	onches): Imm is revised from Mic I//www.nrcs.usda.gov I//www.nrc	/Internet/F	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduce	Ives (B9) 3) s (B14) Odor (C1) heres on I) Living Ro	NRCS Field i)	Secondary X Surface Draina Dry-Secondary Satura Stunte	of Hydric So Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse	(minimum of tooks (B6)) s (B10) r Table (C2) (C8) on Aerial Imaged Plants (D1)	0, 2015 wo required
Type:	or is revised from Mically Mical Services (Minimum of or Mater (A1) (Mater Table (A2) (A3) (Mater Ballon) (Mate	/Internet/F	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro	apply) ned Lea una (B1 tic Plant Sulfide (thizosph of Redu n Reduc	oves (B9) 3) s (B14) Odor (C1 heres on I ced Iron (ction in Ti) Living Ro	NRCS Field i)	Secondary X Surfac Draina Dry-Se Crayfi Satura Stunte X Geom	of Hydric So v Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit	(minimum of tooks (B6) (B10) (C8) on Aerial Imaged Plants (D1) (ion (D2)	0, 2015 wo required
Type:	or mis revised from Mic or Mic o	/Internet/F	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	aves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (ction in Ti e (C7)) Living Ro	NRCS Field i)	Secondary X Surfac Draina Dry-Se Crayfi Satura Stunte X Geom	of Hydric So Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse	(minimum of tooks (B6) (B10) (C8) on Aerial Imaged Plants (D1) (ion (D2)	0, 2015 wo required
Type:	drology Indicators: cators (minimum of or Water (A1) on (A3) arks (B1) on (Deposits (B2) osits (B3) at or Crust (B4) on Visible on Aerial In	ne is requi	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck Gauge or N	apply) ned Lea una (B1 tic Plant Sulfide (thizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1 heres on led Iron (etion in Tile (C7) a (D9)) Living Ro	NRCS Field i)	Secondary X Surfac Draina Dry-Se Crayfi Satura Stunte X Geom	of Hydric So v Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit	(minimum of tooks (B6) (B10) (C8) on Aerial Imaged Plants (D1) (ion (D2)	0, 2015 wo required
Type:	orm is revised from Mical/www.nrcs.usda.gov DGY drology Indicators: cators (minimum of orm Water (A1) arter Table (A2) on (A3) arks (B1) art Deposits (B2) arts (B3) art or Crust (B4) arts (B5) on Visible on Aerial Inter Vegetated Concave	ne is requi	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck Gauge or N	apply) ned Lea una (B1 tic Plant Sulfide (thizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1 heres on led Iron (etion in Tile (C7) a (D9)) Living Ro	NRCS Field i)	Secondary X Surfac Draina Dry-Se Crayfi Satura Stunte X Geom	of Hydric So v Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit	(minimum of tooks (B6) (B10) (C8) on Aerial Imaged Plants (D1) (ion (D2)	0, 2015 wo required
Type:	or is revised from Mid in is revised from Mid in is revised from Mid in in i	nagery (B ³	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck Gauge or V Gauge Or V Gauge Other (Exp	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1 heres on loced Iron (ction in Tie c (C7) a (D9) Remarks)) Living Ro	NRCS Field i)	Secondary X Surfac Draina Dry-Se Crayfi Satura Stunte X Geom	of Hydric So v Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit	(minimum of tooks (B6) (B10) (C8) on Aerial Imaged Plants (D1) (ion (D2)	0, 2015 vo required
Type: Depth (in Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Water M Sedimer Drift Dep X Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Water	or is revised from Michael Mic	nagery (B Surface (I	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck Gauge or N 38) Other (Exp	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	avves (B9) 3) s (B14) Odor (C1 teres on I ced Iron (ction in Ti c (C7) a (D9) Remarks)) Living Ro	NRCS Field i)	Secondary X Surfac Draina Dry-Se Crayfi Satura Stunte X Geom	of Hydric So v Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit	(minimum of tooks (B6) (B10) (C8) on Aerial Imaged Plants (D1) (ion (D2)	0, 2015 wo required
Type:	or is revised from Micalifornia in the control of t	nagery (B ² Surface (I	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized For Recent Iro Thin Muck (7) Gauge or (88) Other (Exp. No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	aves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (ction in Ti e (C7) a (D9) Remarks) nches): _ nches): _) Living Ro	oots (C3)	Secondary X Surface Dry-Secondary Crayfit Satura Stunte X Geom X FAC-N	of Hydric So y Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit Neutral Test	(minimum of the ks (B6) or Table (C2) (C8) on Aerial Imaged Plants (D1) ion (D2) (D5)	0, 2015 wo required gery (C9)
Type: Depth (in Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Water M Sedimer Drift Dep X Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Water	or is revised from Mical/www.nrcs.usda.gov OGY drology Indicators: cators (minimum of or	nagery (B ² Surface (I	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized For Recent Iro Thin Muck (7) Gauge or (88) Other (Exp. No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	avves (B9) 3) s (B14) Odor (C1 teres on I ced Iron (ction in Ti c (C7) a (D9) Remarks)) Living Ro	oots (C3)	Secondary X Surface Dry-Secondary Crayfit Satura Stunte X Geom X FAC-N	of Hydric So v Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit	(minimum of the ks (B6) or Table (C2) (C8) on Aerial Imaged Plants (D1) ion (D2) (D5)	0, 2015 vo require
Type:	or is revised from Mical/www.nrcs.usda.gov OGY drology Indicators: cators (minimum of or	nagery (B: Surface (I	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence (Recent Iro Thin Muck Gauge or Valle) Other (Exp. No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	oves (B9) 3) s (B14) Odor (C1 eres on lection in Tie (C7) a (D9) Remarks) nches):nches):nches):) Living Ro (C4) Illed Soils	NRCS Field oots (C3) s (C6) Wetland	Secondary X Surfac Dry-Si Crayfi Satura Stunte X Geom X FAC-N	of Hydric So y Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit Neutral Test	(minimum of the ks (B6) or Table (C2) (C8) on Aerial Imaged Plants (D1) ion (D2) (D5)	0, 2015 wo required gery (C9)
Type:	or is revised from Mical/www.nrcs.usda.gov OGY drology Indicators: cators (minimum of or	nagery (B: Surface (I	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence (Recent Iro Thin Muck Gauge or Valle) Other (Exp. No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	oves (B9) 3) s (B14) Odor (C1 eres on lection in Tie (C7) a (D9) Remarks) nches):nches):nches):) Living Ro (C4) Illed Soils	NRCS Field oots (C3) s (C6) Wetland	Secondary X Surfac Dry-Si Crayfi Satura Stunte X Geom X FAC-N	of Hydric So y Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit Neutral Test	(minimum of the ks (B6) or Table (C2) (C8) on Aerial Imaged Plants (D1) ion (D2) (D5)	0, 2015 wo required gery (C9)
Type:	or is revised from Mical/www.nrcs.usda.gov OGY drology Indicators: cators (minimum of or	nagery (B: Surface (I	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence (Recent Iro Thin Muck Gauge or Valle) Other (Exp. No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	oves (B9) 3) s (B14) Odor (C1 eres on lection in Tie (C7) a (D9) Remarks) nches):nches):nches):) Living Ro (C4) Illed Soils	NRCS Field oots (C3) s (C6) Wetland	Secondary X Surfac Dry-Si Crayfi Satura Stunte X Geom X FAC-N	of Hydric So y Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Posit Neutral Test	(minimum of the ks (B6) or Table (C2) (C8) on Aerial Imaged Plants (D1) ion (D2) (D5)	0, 2015 wo required gery (C9)

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ject	City/Cour	nty: Fort Wa	yne/Allen	Sampling Date:	9/20/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Point:	DP 38
Investigator(s): Leigh Stevenson and Cameron Schuler		Section, T	ownship, Ra	ange: Section 05, Towns	ship 31 N, Range ´	13 E
Landform (hillside, terrace, etc.): Tillplain			Local relief (c	concave, convex, none):	Flat	
Slope (%): 0 Lat: 41.169139		Long: <u>-</u> {	85.093108		Datum: WGS_198	34
Soil Map Unit Name: Blount loam, interlobate moraines	s, 0 to 2 perc	ent slopes (Bı	mA)	NWI classif	ication: N/A	
Are climatic / hydrologic conditions on the site typical fo			Yes X	No (If no, exp	•	
Are Vegetation , Soil , or Hydrology s		-		· 		0
Are Vegetation , Soil , or Hydrology n						
SUMMARY OF FINDINGS – Attach site ma						itures, etc.
Hydrophytic Vegetation Present? Yes X No)	Is the	Sampled A	rea		
Hydric Soil Present? Yes X No			n a Wetland?		No X	
Wetland Hydrology Present? Yes No	X X					
Remarks:						
DP 38 is representative of the upland area surrounding	្យ Wetland 1 <i>/</i>	7.				
NECETATION Lies esistific names of play				_		
VEGETATION – Use scientific names of plan	Absolute	Dominant	Indicator	Γ		
<u>Tree Stratum</u> (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
1				Number of Dominant S	Species That	
2.				Are OBL, FACW, or F.	•	5 (A)
3				Total Number of Domi	nant Species	
4				Across All Strata:		7 (B)
5	 .	Tatal Cover		Percent of Dominant S	•	4 40/ /A/D)
Sanling/Shruh Stratum (Plot size: 15 ft)	·=	=Total Cover		Are OBL, FACW, or F	AC: <u>'</u>	1.4% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft) 1. Populus deltoides	5	Yes	FAC	Prevalence Index wo	rkshoot:	
Salix interior	2	Yes	FACW	Total % Cover of		v hv·
3.				OBL species 0		0
4.				FACW species 17		34
5.				FAC species 40	0 x 3 =	120
	7 =	Total Cover		FACU species 35	5 x 4 =	140
Herb Stratum (Plot size: 5 ft)				UPL species 0	x 5 =	0
1. Setaria pumila	25	Yes	FAC	Column Totals: 92	2 (A)	294 (B)
2. Trifolium pratense	15	Yes	FACU	Prevalence Index =	= B/A = <u>3.20</u>	0
3. Ambrosia artemisiifolia	10	Yes	FACU			
4. Echinochloa crus-galli	10	Yes	FACW	Hydrophytic Vegetat		
5. Poa pratensis		Yes	FAC	·	Hydrophytic Vege	tation
6. Solidago altissima	5	No No	FACU	X 2 - Dominance Te		
7. Symphyotrichum novae-angliae	5	No No	FACU	3 - Prevalence Inc	dex is ≤3.01 Adaptations¹ (Prov	#do cupporting
Dipsacus fullonum Setaria faberi	3 2	No No	FACU FACU		s or on a separate	
10.		INU	TAGG		ophytic Vegetation	
10	85 =	=Total Cover		¹ Indicators of hydric so		
Woody Vine Stratum (Plot size: 30 ft)				be present, unless dis		
1.				Hydrophytic	•	
2.				Vegetation		
	=	=Total Cover		_	<u>X</u> No	_
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

	cription: (Describe Matrix	to the dep		ument tl x Featur		itor or c	onfirm the absence o	f indicators.)
Depth (inches)	-	%		% realui		Loc ²	Texture	Domarka
(inches)	Color (moist)		Color (moist)		Type ¹			Remarks
0-14	10YR 4/2	95	10YR 5/4	5	<u>C</u>	<u>M</u>	Loamy/Clayey	Distinct redox concentrations
14-18	10YR 4/1	90	10YR 4/6	10	С	<u>M</u>	Loamy/Clayey	
	-							
¹ Type: C=C	oncentration, D=Dep	letion RM:	=Reduced Matrix 1	MS=Mas	ked Sand	 I Grains	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil		1001011, 1 0111	Troduced Matrix, 1	vic ivide	nou oun	- Oranio		s for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	eyed Mat	rix (S4)			Prairie Redox (A16)
	oipedon (A2)		Sandy Re					Manganese Masses (F12)
	stic (A3)		Stripped N				Red F	Parent Material (F21)
— Hydroge	en Sulfide (A4)		Dark Surfa		•		Very S	Shallow Dark Surface (F22)
Stratified	d Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Other	(Explain in Remarks)
2 cm Mu	ıck (A10)		Loamy Gle	eyed Ma	trix (F2)			
Depleted	d Below Dark Surface	e (A11)	X Depleted I	Matrix (F	3)			
Thick Da	ark Surface (A12)		Redox Da	rk Surfac	e (F6)		³ Indicators	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted I	Dark Sur	face (F7)		wetlar	nd hydrology must be present,
5 cm Mu	icky Peat or Peat (S3)	Redox De	pression	s (F8)		unless	s disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (ii	nches):						Hydric Soil Present	? Yes <u>X</u> No
HYDROLC	OGY							
_	drology Indicators:							
	cators (minimum of c	ne is requi						y Indicators (minimum of two required
	Water (A1)		Water-Sta					ce Soil Cracks (B6)
_ `	ater Table (A2)		Aquatic Fa	`	,			age Patterns (B10)
Saturation	()		True Aqua					eason Water Table (C2)
	larks (B1)		Hydrogen					sh Burrows (C8)
	nt Deposits (B2) posits (B3)		Oxidized F Presence			_		ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
	at or Crust (B4)		Recent Iro			,		norphic Position (D2)
	posits (B5)		Thin Muck			1100 0011	` '	Neutral Test (D5)
	on Visible on Aerial I	magery (B			` '			104.4. 1001 (20)
	/ Vegetated Concave							
Field Obser			<u> </u>		<u> </u>			
Surface Wat		s	No X	Depth (i	nches):			
Water Table	Present? Ye	s	No X	Depth (i	· -			
Saturation P	resent? Ye	s	No X	Depth (i	_		Wetland Hydrolog	y Present? Yes No X
(includes ca	pillary fringe)			<u> </u>				
Describe Re	corded Data (stream	gauge, mo	onitoring well, aeria	al photos	, previou	s inspec	tions), if available:	
Remarks:								

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ect	City/Cou	nty: Fort Wa	yne/Allen	Sampli	ng Date:	9/27/	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	epartment		State: IN	Sampli	ng Point:	DI	P 39
Investigator(s): Josh Iddings, Cameron Schuler, and Aly	ssa Damiar	o Section, T	ownship, Ra	nge: Section 05, T	ownship 31 N	I, Range 1	3 E	
Landform (hillside, terrace, etc.): Tillplain		!	Local relief (c	oncave, convex, no	ne): <u>Concave</u>			
Slope (%): 0.5 Lat: 41.172257		Long: -	85.087207		Datum: <u>V</u>	VGS_198	4	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	t slopes, ero	ded (MrB2)		NWI cl	assification: N	I/A		
Are climatic / hydrologic conditions on the site typical fo	r this time of	f year?	Yes X	No (If no	, explain in Re	emarks.)		
Are Vegetation , Soil , or Hydrology s	ignificantly o	disturbed? A	Are "Normal C	·)	
Are Vegetation, Soil, or Hydrologyn				plain any answers i				
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transe	cts, impor	tant fea	tures	, etc.
Hydrophytic Vegetation Present? Yes X No		Is the	Sampled A	·ea				
			n a Wetland?		X No			
Wetland Hydrology Present? Yes X No				_				
Remarks:								
DP 39 is representative of Wetland 18.								
VEGETATION – Use scientific names of plar	nts.							
	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test	worksheet:			
1.				Number of Domir		Γhat		
2.				Are OBL, FACW,	or FAC:		1	(A)
3. 4.				Total Number of I Across All Strata:		cies	2	(B)
5.				Percent of Domin				_(_/
		Total Cover		Are OBL, FACW,	•		0.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)								
1				Prevalence Inde	x worksheet:			
2				Total % Cov	er of:	Multiply	by:	_
3				OBL species		: 1 =	0	_
4				FACW species_			112	_
5		Total Cover		FAC species FACU species		3 = 3 4 =	15 8	-
<u>Herb Stratum</u> (Plot size: 5 ft)		- Total Cover		UPL species			125	-
1. Echinochloa crus-galli	35	Yes	FACW	Column Totals:	88 (A)		260	(B)
2. Glycine max	25	Yes	UPL	Prevalence Inc	``	2.95	5	_ ` ′
3. Panicum dichotomiflorum	15	No	FACW		_			-
4. Panicum capillare	5	No	FAC	Hydrophytic Ve	getation Indic	ators:		
5. Cyperus esculentus	5	No	FACW	1 - Rapid Tes	st for Hydroph	ytic Veget	ation	
6. Schedonorus arundinaceus	2	No	FACU	2 - Dominand				
7. Persicaria maculosa	1	No	FACW	X 3 - Prevalenc				
8				4 - Morpholog	gical Adaptation marks or on a	•		porting
9						•		nim\
10	88 :	=Total Cover		Problematic I		-		
Woody Vine Stratum (Plot size: 30 ft)		. Oldi Oovei		¹ Indicators of hyd be present, unles		-		rnust
1.						•		
2.				Hydrophytic Vegetation				
	:	Total Cover		_	Yes X	No	_	
Remarks: (Include photo numbers here or on a separa	ate sheet.)							

		to the dep				tor or o	confirm the absence o	f indicators.)
Depth	Matrix			x Featur		. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	
4-10	10YR 3/1	98	10YR 4/4	2	С	M	Loamy/Clayey	
10-18	10YR 4/1	90	10YR 5/6	10	С	M	Loamy/Clayey	
		. <u> </u>						
¹ Type: C=Co	oncentration, D=Dep	letion. RM:	=Reduced Matrix. N	MS=Mas	ked Sand	Grains	Location:	PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	yed Mat	rix (S4)			Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy Red	dox (S5)			Iron-M	langanese Masses (F12)
Black His	stic (A3)		Stripped M	latrix (Se	3)		Red P	arent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very S	Shallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	icky Min	eral (F1)		Other	(Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Ma	trix (F2)			
X Depleted	Below Dark Surface	e (A11)	X Depleted I	Matrix (F	3)		_	
	ark Surface (A12)		X Redox Da		` '			of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted [, ,			nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S	3)	Redox De	pression	s (F8)		unless	disturbed or problematic.
	Layer (if observed):	!						
Type:								
Depth (ir	nches):						Hydric Soil Present?	Yes <u>X</u> No
	//www.nrcs.usda.gov							of Hydric Soils, Version 7.0, 2015
HYDROLO	GY							
	drology Indicators:							
_	cators (minimum of c		red: check all that :	annly)			Secondan	/ Indicators (minimum of two required)
-	Water (A1)	nic is requi	Water-Sta		ives (B9)			ce Soil Cracks (B6)
	ter Table (A2)		Aquatic Fa					age Patterns (B10)
Saturation	` '		True Aqua	`	,			eason Water Table (C2)
Water M	arks (B1)		Hydrogen)		sh Burrows (C8)
Sedimen	nt Deposits (B2)		Oxidized F	Rhizosph	eres on L	iving R	oots (C3) Satura	ation Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Redu	ced Iron (C4)	X Stunte	ed or Stressed Plants (D1)
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	s (C6) X Geom	orphic Position (D2)
	osits (B5)		Thin Muck	Surface	e (C7)		X FAC-N	Neutral Test (D5)
Inundatio	on Visible on Aerial I	magery (B	7)Gauge or '	Well Dat	a (D9)			
Sparsely	Vegetated Concave	Surface (l	38)Other (Exp	olain in F	Remarks)		-	
Field Obser								
Surface Water	er Present? Ye	es		Depth (i	nches):			
Water Table					nches):			
Saturation P		es	No X	Depth (i	nches):		Wetland Hydrolog	y Present? Yes X No
(includes cap	_ · · · · ·			1 !			1	
Describe Re	corded Data (stream	gauge, mo	onitoring well, aeria	ıı pnotos	, previous	sinspec	ctions), it available:	
Remarks:								
. tomanto.								

Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Dat	e: <u>9/20</u> /	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	Sampling Poir	nt: D	P 40
Investigator(s): Josh Iddings, Cameron Schuler, and A	lyssa Damiar	o Section, T	Township, Ra	inge: Section 05, Town	ship 31 N, Rang	je 13 E	
Landform (hillside, terrace, etc.): Tillplain			Local relief (d	concave, convex, none):	Convex		
Slope (%): 2 Lat: 41.172418		Long: -	85.087003	,	Datum: WGS 1	984	
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percer	nt slopes (Mrl				fication: N/A		
Are climatic / hydrologic conditions on the site typical for			Yes X			:)	
Are Vegetation , Soil , or Hydrology						-	
Are Vegetation , Soil , or Hydrology							_
SUMMARY OF FINDINGS – Attach site ma						eatures	s, etc.
Hydrophytic Vegetation Present? Yes N	o X	Is the	Sampled A	rea			
	0		n a Wetland		No X		
Wetland Hydrology Present? Yes N	o <u>X</u>						
Remarks: DP 40 is representative of the upland area surroundir	ng Wetland 18	3.					
	.9						
VEGETATION – Use scientific names of pla	ints.				,	-	
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wo	rksheet:		
1. 2.				Number of Dominant	•	0	(\\)
3				Are OBL, FACW, or F			_(A)
4.				Total Number of Dom Across All Strata:	inant Species	1	(B)
5.				Percent of Dominant	— Species That		_(_/
	:	Total Cover		Are OBL, FACW, or F	•	0.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)						_
Cornus drummondii	2	No	FAC	Prevalence Index wo	orksheet:		
2				Total % Cover of	: Mult	iply by:	_
3.				OBL species 0		0	_
4.				FACW species 4		8	_
5	2	Total Cover		FAC species 5	5 x 3 = 9 x 4 =	15 316	-
Herb Stratum (Plot size: 5 ft)		- Total Cover		UPL species 1		5	_
1. Dipsacus fullonum	65	Yes	FACU	Column Totals: 8		344	(B)
2. Schedonorus arundinaceus	10	No	FACU	Prevalence Index		3.87	_` ′
3. Solidago altissima	3	No	FACU				_
4. Bidens frondosa	3	No	FACW	Hydrophytic Vegeta	tion Indicators:		
5. Setaria pumila	2	No	FAC	1 - Rapid Test for		getation	
6. Setaria viridis	1	No	UPL	2 - Dominance Te			
7. Symphyotrichum lateriflorum	1	<u>No</u>	FACW	3 - Prevalence In			
Panicum capillare Ambrosia artemisiifolia	1	No No	FAC	4 - Morphological	≀ Adaptations ' (P ks or on a separa		
10.	1	<u>No</u>	FACU	Problematic Hydr			
10	87	Total Cover				, ,	,
Woody Vine Stratum (Plot size: 30 ft)	. 5.6 55761		¹ Indicators of hydric s be present, unless dis			ınust
1.				,			
2.				Hydrophytic Vegetation			
		Total Cover		Present? Yes	No_	Χ	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1			

5-18 10YR 4/1 97 10YR 5/4 3 C M Loamy/Clayey	Remarks			
5-18 10YR 4/1 97 10YR 5/4 3 C M Loamy/Clayey **Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Location: PL=Pethydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Histos (A3) Stripped Matrix (S6) Red Parent M Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain Thick Dark Surface (A12) Redox Dark Surface (F6) **Simple Below Dark Surface (A12) Redox Dark Surface (F6) 3-Indicators of hydrogen Sulface (A12) Redox Dark Surface (F7) wetland hydrogen Sulface (F8) Unless disturits (F8) **Restrictive Layer (if observed): Type: Depth (inches): Redox Depleted Matrix (F8) **Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators of Hydrogen Sulface Water (A11) Water-Stained Leaves (B9) Surface Sulface Surface Surface (F1) Redox Dark Surface Water (A11) High Water Table (A2) Aquatic Fauna (B13) Drainage Pat Surface Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burt Saturation (A3) True Aquatic Plants (B14) Dry-Season (Hydrogen Sulfide Odor (C1) Crayfish Burt Sediment Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stunted or Stundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) **Filed Observations:** Surface Water Present? Yes No X Depth (inches):				
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. PL=Pt Hydric Soil Indicators: Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Bark Surface (S7) Yery Shallow Stratified Layers (A5) Loamy Mucky Mineral (F1) Cost Matrix (F2) Thick Dark Surface (A11) X Depleted Matrix (F2) Thick Dark Surface (A12) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydrology Indicators: **Primary Indicators** (minimum of one is required; check all that apply) Surface Water (A1) Surface Water (A1) Water Haile (B13) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Surface Water (A1) Surface Water (A1) Hydrogen Sulfide Odor (C1) Surface Soil Hydrology Indicators: **Primary Indicators** (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Fauna (B13) Drainage Pat Surface Soil Hydrology Indicators* Surface Water (B4) Redox Depression (F4) Redox Depression (F4) Surface Soil Hydrologo Indicators* **Primary Indicators** (minimum of one is required; check all that apply) Secondary Indicators Surface Water (A1) Saturation (A3) True Aquatic Fauna (B13) Drainage Pat Oxidized Rhizospheres on Living Roots (C3) Saturation (A3) True Aquatic Pauna (B14) Presence of Reduced Iron (C4) Stunted of St Agal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Indicators in Tilled Observations: Surface Water Present? Yes No X Depth (inches):	Faint redox concentrations			
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X Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydro Som Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydrorata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) 1YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Saturation (A3) Saturation (A3) True Aquatic Plants (B14) Dy-Season (Mater Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Vi Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):	in in Remarks)			
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Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydromatic form Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturble Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydromatic (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (Maler (A1) Water-Stained Leaves (B9) Surface Soil High Water Table (A2) Aquatic Fauna (B13) Drainage Pat Saturation (A3) True Aquatic Plants (B14) Dry-Season (Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burr Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):	drankytia vagatatian and			
Restrictive Layer (if observed): Type: Depth (inches): Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydricata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Fauna (B13) Drainage Pat Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Ves No X Depth (inches):				
Restrictive Layer (if observed): Type: Depth (inches): Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydrology Indicators: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? No X Depth (inches):	wetland hydrology must be present, unless disturbed or problematic.			
Type:				
Depth (inches): Hydric Soil Present? Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydrology Indicators. Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Presence (B8) No X Depth (inches):				
Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydrogen Indicators (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water (A2) Aquatic Fauna (B13) Drainage Pat Saturation (A3) True Aquatic Plants (B14) Dry-Season (AA) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Vi Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Iron Deposits (B5) Thin Muck Surface (C7) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):	Yes X No			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil of Surface Surface (B2) Drainage Pat Deposite (B14) Dry-Season of Surface Soil of Surface (C1) Crayfish Burr Crayfish Burr Surface Oxidized Rhizospheres on Living Roots (C3) Saturation Vi Surface Surface (C3) Surface Soil of Surface Soil of Surface (C3) Surface Soil of Surface Soil of Surface (C4) Stunted or Stunted Surface (C7) FAC-Neutral Geomorphic FAC-Neutral Invalidation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):				
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Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Marks (B1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) No X Depth (inches):				
High Water Table (A2) Saturation (A3) True Aquatic Fauna (B13) Dry-Season V Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Aquatic Fauna (B13) Drainage Pat Dry-Season V Drainage Pat Dry-Season V Dry-	ators (minimum of two requir			
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Saturation Vi Stunted or St Recent Iron Reduction in Tilled Soils (C6) Geomorphic Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):				
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Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic FAC-Neutral Gauge or Well Data (D9) Other (Explain in Remarks) Field Observations: Surface Water Present? Oxidized Rhizospheres on Living Roots (C3) Saturation Vi Square (C4) FAC-Neutral FAC-Neutral Other (Explain in Remarks)				
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or St Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):	tressed Plants (D1)			
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):	` '			
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches):	` '			
Field Observations: Surface Water Present? Yes No X Depth (inches):	(
Surface Water Present? Yes No X Depth (inches):				
Water Table Present? Yes No X Depth (inches):				
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Prese	ent? Yes No No			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ject	City/Cour	nty: Fort Wa	ayne/Allen	Sampling Date:	9/27/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	. Highway De	partment		State: IN	Sampling Point:	DP 41
Investigator(s): Josh Iddings, Cameron Schuler, and Aly	yssa Damian	o Section, T	ownship, Ra	inge: Section 05, Towns	ship 31 N, Range 1	3 E
Landform (hillside, terrace, etc.): Tillplain		L	_ocal relief (c	concave, convex, none):	Concave	
Slope (%): 0.5 Lat: 41.172620		 Long: <u>-</u> {	85.086968		 Datum: <u>WGS_198</u> ₄	1
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	t slopes (MrE			NWI classifi	·	
Are climatic / hydrologic conditions on the site typical fo			Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrologys	significantly d				Yes X No)
Are Vegetation, Soil, or Hydrologyn	naturally prob	olematic? (I	If needed, ex	ιρlain any answers in Rei	marks.)	
SUMMARY OF FINDINGS – Attach site ma	ap showin	g samplin	g point lo	cations, transects,	important fea	tures, etc.
Hydrophytic Vegetation Present? Yes X No)	Is the	Sampled A	rea		
			n a Wetland?		No	
				<u> </u>		
Remarks:		•				
DP 41 is representative of Wetland 19.						
VEGETATION – Use scientific names of plan		2		,		
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:	
1.	70 001.11	Орезия		Number of Dominant S		
2.				Are OBL, FACW, or F	•	1 (A)
3.				Total Number of Domi	nant Species	
4.				Across All Strata:	·	2 (B)
5				Percent of Dominant S	•	
O Para (Obrack Otrack) (Distriction 45 ft)		Total Cover		Are OBL, FACW, or F	AC: 50	0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft) 1.				Prevalence Index wo	rkehoot:	
2				Total % Cover of:		hv
3.				OBL species 0		0
4.				FACW species 40		80
5.				FAC species 0	x 3 =	0
	=	Total Cover		FACU species 20) x 4 =	80
Herb Stratum (Plot size: 5 ft)				UPL species 0		0
Echinochloa crus-galli	40	Yes	FACW	Column Totals: 60	``/	160 (B)
2. Schedonorus arundinaceus	20	Yes	FACU	Prevalence Index =	= B/A = <u>2.67</u>	
3.				Undrankytia Vagatat	ing Indicators	
5.				Hydrophytic Vegetat	Hydrophytic Veget	ation
				2 - Dominance Te		allon
7				X 3 - Prevalence Inc		
8.					Adaptations ¹ (Prov	ide supporting
9.					s or on a separate	
10				Problematic Hydro	ophytic Vegetation ¹	(Explain)
	60 =	Total Cover		¹ Indicators of hydric so	oil and wetland hyd	rology must
Woody Vine Stratum (Plot size: 30 ft)	Į.			be present, unless dis	turbed or problema	tic.
1.				Hydrophytic		
2		T-+-1 O		Vegetation	Y Na	
		=Total Cover		Present? Yes_	<u> </u>	
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

Profile Desc	ription: (Describe	to the dep	tn needed to doc	ument tr	ie indica	tor or c	onfirm the absence o	or indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/1	98	10YR 3/4	2	С	М	Loamy/Clayey	Distinct redox concentrations
4-6	10YR 4/4	97	10YR 4/1	_ 3	D	M	Loamy/Clayey	
6-18	10YR 4/4	90	10YR 5/1	10		М	Loamy/Clayey	
	oncentration, D=Dep	letion, RM=	Reduced Matrix, I	MS=Mas	ked Sand	d Grains		PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
Histosol	` '		Sandy Gle		rix (S4)			t Prairie Redox (A16)
	ipedon (A2)		Sandy Re					Manganese Masses (F12)
Black His	` '		Stripped N	•	5)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	. ,				Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	-			Other	(Explain in Remarks)
2 cm Mu	, ,	(444)	Loamy Gle	-				
l —	Below Dark Surface	e (A11)	Depleted I	`	,		3, ,,	
	rk Surface (A12)		X Redox Da		` '			s of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted [nd hydrology must be present, s disturbed or problematic.
	cky Peat or Peat (S3	-	Redox De	pression	S (FO)		unies	s disturbed or problematic.
	Layer (if observed):							
Type:	1)							• • •
Depth (in	icnes):						Hydric Soil Present	? Yes <u>X</u> No
Remarks:								
	m is revised from Mic //www.nrcs.usda.gov							of Hydric Soils, Version 7.0, 2015
Lirata. (IIIIp.)	//www.nics.usua.gov	/IIILEITIEUT	SE_DOCOMENTS	711105 142	.μ2_0312	.93.u0c/	()	
HYDROLO	ocv							
r								
_	drology Indicators:							
-	cators (minimum of o	ne is requi						y Indicators (minimum of two required)
	Water (A1)		X Water-Sta					ce Soil Cracks (B6)
I —	ter Table (A2)		Aquatic Fa	,	,			age Patterns (B10)
Saturatio	,		True Aqua				<u> </u>	Season Water Table (C2)
	arks (B1)		Hydrogen					ish Burrows (C8)
	t Deposits (B2)		Oxidized F Presence			•	· · · —	ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
	osits (B3) t or Crust (B4)		Recent Iro		,	,		norphic Position (D2)
	osits (B5)		Thin Muck			ileu Soil	` ′ —	Neutral Test (D5)
lloll Deb		/D7			. ,		170-	Neutral Test (D3)
Inundatio	nn Visihle on Aerial Ir) Cauge of	VVCII Dat				
	on Visible on Aerial Ir		38) Other (Ex	olain in R	'emarks)			
Sparsely	Vegetated Concave		Other (Exp	olain in R	(emarks)		1	
Sparsely Field Observ	Vegetated Concave	Surface (E						
Sparsely Field Observ Surface Water	vations: er Present? Ye	Surface (E	No X	Depth (i	nches):			
Sparsely Field Obsert Surface Water Water Table	vations: er Present? Present? Ye	Surface (Ess	No X No X	Depth (i	nches): _ nches): _		Wetland Hydrolog	ıv Present? Yes X No
Sparsely Field Obser Surface Water Water Table Saturation Pr	vations: er Present? Ye Present? Ye resent? Ye	Surface (Ess	No X	Depth (i	nches): _ nches): _		Wetland Hydrolog	y Present? Yes X No
Sparsely Field Obser Surface Wate Water Table Saturation Political	vations: er Present? Ye Present? Ye resent? Ye present? Ye resent? Ye	Surface (E	No X No X No X	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _	sinspec		y Present? Yes X No
Sparsely Field Obser Surface Wate Water Table Saturation Political	vations: er Present? Ye Present? Ye resent? Ye	Surface (E	No X No X No X	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _	s inspec		gy Present? Yes X No
Sparsely Field Obser Surface Wate Water Table Saturation Political	vations: er Present? Ye Present? Ye resent? Ye present? Ye resent? Ye	Surface (E	No X No X No X	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _	s inspec		y Present? Yes X No
Sparsely Field Observ Surface Water Table Saturation Pro (includes cap Describe Recommendation)	vations: er Present? Ye Present? Ye resent? Ye present? Ye resent? Ye	Surface (E	No X No X No X	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _	s inspec		y Present? Yes X No

Midwest Region

Project/Site: Clinton Street Roadway Improvement Project	ect	City/Cour	nty: Fort Wa	yne/Allen	Sampling Date:	9/27/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Point:	DP 42
Investigator(s): Josh Iddings, Cameron Schuler, and Aly	/ssa Damian	o Section, T	ownship, Ra	nge: Section 05, Town	ship 31 N, Range 1	3 E
Landform (hillside, terrace, etc.): Tillplain		!	Local relief (c	concave, convex, none):	Convex	
Slope (%): 0.5 Lat: 41.172632		Long:	85.086993		 Datum: <u>WGS_1984</u>	ļ <u></u>
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	slopes (MrF			NWI classif	·	
Are climatic / hydrologic conditions on the site typical for			Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation , Soil , or Hydrology si				<u> </u>	•)
Are Vegetation , Soil , or Hydrology no						
SUMMARY OF FINDINGS – Attach site ma						ures, etc.
Hydrophytic Vegetation Present? Yes No	X	Is the	Sampled Ar	rea		
	X		n a Wetland?		No_X_	
Wetland Hydrology Present? Yes No	X					
Remarks: DP 42 is representative of the upland area surrounding	y Wetland 19					
VEGETATION – Use scientific names of plan	nts.					
	Absolute	Dominant	Indicator			
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
Ulmus americana Picea abies	3	Yes Yes	FACW_ UPL	Number of Dominant S	•	2 (A)
Picea ables Pinus resinosa	2	Yes	FACU	Are OBL, FACW, or F		2 (A)
3. Pinus resinosa 4.		res	FACU	Total Number of Domi Across All Strata:	•	5 (B)
5.						<u>5 (b)</u>
J	10 =	=Total Cover		Percent of Dominant S Are OBL, FACW, or F.	•	0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)						,
1.			1	Prevalence Index wo	orksheet:	,
2.				Total % Cover of	: Multiply	b <u>y:</u>
3.				OBL species 0	x 1 =	0
4.				FACW species 5	x 2 =	10
5				FAC species 65		95
	=	=Total Cover		FACU species 39		56
Herb Stratum (Plot size: 5 ft)				UPL species 3		15 (2)
1. Poa pratensis	60	Yes	FAC	Column Totals: 11	` ´	876 (B)
2. Trifolium repens	20	Yes	FACU	Prevalence Index =	= B/A = <u>3.36</u>	
3. Schedonorus arundinaceus	<u>10</u>	No No	FACU	Undranhutia Vagatat	ian Indicatore:	
Plantago lanceolata Plantago major	3	No No	FACU FAC	Hydrophytic Vegetat	tion indicators: Hydrophytic Vegeta	ation
6. Taraxacum officinale	3	No	FACU	2 - Dominance Te		111011
7		INO	1 700	3 - Prevalence Inc		
8.					Adaptations¹ (Provi	de supportina
9.					s or on a separate s	
10.				Problematic Hydro	ophytic Vegetation ¹	(Explain)
	100 =	Total Cover		Indicators of hydric so		,
Woody Vine Stratum (Plot size: 30 ft)				be present, unless dis		
Toxicodendron radicans	2	No	FAC	Hydrophytic		
2				Vegetation		
	=	=Total Cover		Present? Yes	No X	
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

	Matrix		Redo	x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-4	10YR 3/2	100					Loamy/Cla	yey		
4-18	10YR 4/2	100					Loamy/Cla	yey		
							'			
1							2.			
	oncentration, D=Depl	etion, RM=	Reduced Matrix, I	MS=Mas	ked Sand	d Grains.		ocation: PL=Pore		•
Hydric Soil			Sandy Cla	wad Mat	riv (C1)		in	dicators for Prob	-	: Solls :
Histosol			Sandy Gle	-			_	_Coast Prairie Re Iron-Manganese		
Black His	ipedon (A2)		Sandy Re——Stripped N				_	Red Parent Mat	, ,	
	n Sulfide (A4)		Dark Surfa	,	3)		_	Very Shallow Da		2)
	Layers (A5)		Loamy Mu		eral (E1)		_	Other (Explain i	•	۷)
2 cm Mu			Loamy Gle	•	, ,		_		i itemarks)	
	Below Dark Surface	(A11)	Depleted I	-						
	rk Surface (A12)	(/ () /)	Redox Da	`	,		³ In	ndicators of hydrop	hytic vegetatio	n and
	ucky Mineral (S1)		Depleted I		` '			wetland hydrolo	-	
	cky Peat or Peat (S3))	Redox De		` '			unless disturbed		
Restrictive I	_ayer (if observed):			-						
Type:										
	m is revised from Mid //www.nrcs.usda.gov/								Yes	<u> </u>
Depth (in Remarks: This data for Errata. (http://	m is revised from Mid //www.nrcs.usda.gov/						NRCS Field Inc			
Depth (in Remarks: This data for Errata. (http://ht	m is revised from Mid //www.nrcs.usda.gov/						NRCS Field Inc			
Depth (in Remarks: This data for Errata. (http://ht	m is revised from Mid //www.nrcs.usda.gov/						NRCS Field Inc			
Depth (in Remarks: This data for Errata. (http://www.defand.com/de	m is revised from Mid //www.nrcs.usda.gov/ GY drology Indicators: cators (minimum of or	/Internet/F	SE_DOCUMENTS	apply)	2p2_0512		NRCS Field Ind	dicators of Hydric	Soils, Version 7	.0, 2015
Depth (in Remarks: This data for Errata. (http://www.primary.lndic_Surface.)	m is revised from Mid //www.nrcs.usda.gov/ GY drology Indicators: cators (minimum of or	/Internet/F	SE_DOCUMENTS red; check all that Water-Sta	apply) ined Lea	2p2_0512		NRCS Field Ind	dicators of Hydric econdary Indicator Surface Soil Cra	Soils, Version 7	.0, 2015
Depth (in Remarks: This data for Errata. (http://www.primary.lndicSurface.) High Wa	m is revised from Mid //www.nrcs.usda.gov/ GY drology Indicators: eators (minimum of or Water (A1) ter Table (A2)	/Internet/F	SE_DOCUMENTS red; check all that Water-Sta Aquatic Fa	apply) ined Lea	2p2_0512 nves (B9) 3)		NRCS Field Ind	dicators of Hydric econdary Indicator Surface Soil Cra Drainage Patter	Soils, Version 7	.0, 2015
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cou	nty: Fort Wa	ayne/Allen	Sampling Da	ate: 9/27	/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	epartment		State: IN	Sampling Po	oint: D	P 43
Investigator(s): Josh Iddings, Cameron Schuler, and A	lyssa Damiar	o Section, T	ownship, Ra	ange: Section 04,	Гownship 31 N, Rar	ige 13 E	
Landform (hillside, terrace, etc.): Tillplain		ı	Local relief (concave, convex, no	one): Concave		
Slope (%):0 Lat: 41.173806		Long:	85.083933		Datum: WGS_	1984	
Soil Map Unit Name: Morley silty clay loam, 6 to 12 pe	rcent slopes,						
Are climatic / hydrologic conditions on the site typical for	or this time o	f year?	Yes X	No (If no	o, explain in Remark	(s.)	
Are Vegetation, Soil, or Hydrology	significantly o	disturbed? A	re "Normal (Circumstances" pres	sent? Yes X	No	
Are Vegetation, Soil, or Hydrology							_
SUMMARY OF FINDINGS – Attach site ma						features	s, etc.
Hydrophytic Vegetation Present? Yes X No	n	Is the	Sampled A	rea			
	<u> </u>		n a Wetland		X No		
Wetland Hydrology Present? Yes X No.	0			<u>-</u>			
Remarks:		•					
DP 43 is representative of Wetland 20.							
VEGETATION – Use scientific names of pla		<u> </u>		1			
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:		
1. Acer saccharinum	85	Yes	FACW		nant Species That		
2. Populus deltoides	10	No	FAC	Are OBL, FACW	•	6	(A)
3. Salix nigra	5	No	OBL	Total Number of	Dominant Species		
4				Across All Strata	: -	7	_(B)
5	400				nant Species That	05.70/	(A (D)
Sapling/Shrub Stratum (Plot size: 15 ft	100	=Total Cover		Are OBL, FACW	, or FAC:	85.7%	_(A/B)
1. Cornus racemosa	3	Yes	FAC	Prevalence Inde	ex worksheet:		
Cornus drummondii	1	Yes	FAC	Total % Cov		Itiply by:	
3. Ulmus rubra	1	Yes	FAC	OBL species	5 x 1 =	5	_
4. Prunus pensylvanica	1	Yes	FACU	FACW species	85 x 2 =	170	_
5				FAC species	40 x 3 =	120	_
	6	=Total Cover		FACU species	1 x 4 =	4	_
Herb Stratum (Plot size: 5 ft) 1. Symphyotrichum lanceolatum	5	Yes	FAC	UPL species Column Totals:	0 x 5 = 131 (A)	0 299	
		162	FAC	Prevalence In		2.28	_(B)
2. 3.				i revalence in		2.20	_
4.				Hydrophytic Ve	getation Indicators):	
5.				1 - Rapid Te	st for Hydrophytic V	egetation	
6.				X 2 - Dominan	ce Test is >50%		
7				X 3 - Prevalenc			
8.					gical Adaptations ¹ (marks or on a sepa		
9.					·	•	
10	5	=Total Cover		.	Hydrophytic Vegeta		,
Woody Vine Stratum (Plot size: 30 ft)	TOTAL COVE			dric soil and wetland ss disturbed or prob		must
Toxicodendron radicans	20	Yes	FAC	,			
2.				Hydrophytic Vegetation			
	20	Total Cover		_	Yes X No		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

US Army Corps of Engineers

Midwest Region – Version 2.0

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/2	98	10YR 4/4	2	С	М	Loamy/Clayey	Distinct redox concentrations
3-18	10YR 3/1	95	10YR 4/4	5	С	М	Loamy/Clayey	
¹ Type: C=C	oncentration, D=Dep	letion. RM	=Reduced Matrix. N	/IS=Mas	ked San	d Grains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil		· · · · · · · · · · · · · · · · · · ·	,					rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coas	st Prairie Redox (A16)
Histic E	oipedon (A2)		Sandy Red	dox (S5)			Iron-	Manganese Masses (F12)
Black Hi	stic (A3)		Stripped M	•	3)			Parent Material (F21)
Hydroge	en Sulfide (A4)		Dark Surfa	ice (S7)				Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu	-			Othe	r (Explain in Remarks)
	ıck (A10)		Loamy Gle	-				
	d Below Dark Surface	(A11)	Depleted N	`	,		2	
	ark Surface (A12)		X Redox Dai		, ,			rs of hydrophytic vegetation and
<u> </u>	Mucky Mineral (S1)		Depleted [, ,)		and hydrology must be present,
	icky Peat or Peat (S3		Redox De	oression	s (F8)		unles	ss disturbed or problematic.
	Layer (if observed):							
Type:	nohoo):						Hydria Sail Brasan	Yan Y Na
Depth (i Remarks: This data fo								Yes X No Sof Hydric Soils, Version 7.0, 2015
Depth (i Remarks: This data for Errata. (http	rm is revised from Mi ://www.nrcs.usda.gov						NRCS Field Indicators	
Depth (i Remarks: This data for Errata. (http	rm is revised from Mi ://www.nrcs.usda.gov						NRCS Field Indicators	
Depth (i Remarks: This data for Errata. (http	rm is revised from Mi ://www.nrcs.usda.gov						NRCS Field Indicators	
Depth (i Remarks: This data for Errata. (http	rm is revised from Mic ://www.nrcs.usda.gov DGY drology Indicators: cators (minimum of o	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicators) Seconda	s of Hydric Soils, Version 7.0, 2015
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface	OGY drology Indicators: cators (minimum of o	/Internet/F	red; check all that a	/nrcs142 apply) ned Lea	ves (B9)	293.docx	NRCS Field Indicators) Seconda Surfa	ry Indicators (minimum of two required
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2)	/Internet/F	red; check all that a X Water-Stai	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators) Seconda Surfa Drair	ry Indicators (minimum of two required ace Soil Cracks (B6) mage Patterns (B10)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturation	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3)	/Internet/F	red; check all that a X Water-Stal	apply) ined Lea iuna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicators) Seconda Surfa Drair Dry-3	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati X Water M	OGY Idrology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1)	/Internet/F	red; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen	Apply) ned Lea suna (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicators) Seconda Surfa Drair Dry-4	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturatio X Water M Sedimen	orm is revised from Micel/www.nrcs.usda.gov OGY drology Indicators: cators (minimum of of water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea una (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Odor (C1 eres on) Living Ro	NRCS Field Indicators) Seconda Surfa Drair Dry-s Cray pots (C3) Satu	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati X Water M Sedimer Drift Dep	orm is revised from Mic //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of	/Internet/F	red; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 leres on lead Iron (ced Iro) Living Ro	Seconda Surfa Drair Dry-3 Cray pots (C3) Stun	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati X Water M Sedimel Drift Del Algal Ma	orm is revised from Mici//www.nrcs.usda.gov OGY drology Indicators: cators (minimum of of of the cators (minimum of of of the cators (minimum of of of the cators (minimum of of of the cators (minimum of of of of of the cators (minimum of	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	vves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ction in Ti) Living Ro	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati X Water M Sedimer Drift Dep Algal Ma	orm is revised from Mic.//www.nrcs.usda.gov OGY Idrology Indicators: cators (minimum of orwater (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	ne is requi	ired; check all that a X Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	eves (B9) 3) s (B14) Odor (C1 eres on lead Iron (etion in Tite (C7)) Living Ro	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturatio X Water M Sedimer Drift Der Algal Ma Iron Der X Inundati	orm is revised from Mici//www.nrcs.usda.gov OGY drology Indicators: cators (minimum of of of the cators (minimum of of of the cators (minimum of of of the cators (minimum of of of the cators (minimum of of of of of the cators (minimum of	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck T) Gauge or V	apply) Ined Lea Ined Lea Ined Lea Ined Lea Ined Can Ined	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ction in Ties (C7) a (D9)) Living Ro (C4)	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturatio X Water M Sedimer Drift Der Algal Ma Iron Der X Inundati	orm is revised from Mici/www.nrcs.usda.gov OGY Idrology Indicators: Cators (minimum of or Water (A1) Ater Table (A2) Con (A3) Alarks (B1) At Deposits (B2) Cosits (B3) At or Crust (B4) Cosits (B5) Con Visible on Aerial In A Vegetated Concave	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck T) Gauge or V	apply) Ined Lea Ined Lea Ined Lea Ined Lea Ined Can Ined	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ction in Ties (C7) a (D9)) Living Ro (C4)	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati X Water M Sedimel Drift Dep Algal Ma Iron Dep X Inundati Sparsely	orm is revised from Mici//www.nrcs.usda.gov OGY Idrology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In y Vegetated Concave	ne is requi	ired; check all that a X Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck T) Gauge or Ses Other (Exp.	apply) Ined Lea Ined Lea Ined Lea Ined Lea Ined Can Ined	eves (B9) 3) s (B14) Odor (C1 eres on leed Iron (ction in Tie (C7) a (D9) Remarks)) Living Ro (C4)	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturatio X Water M Sedimer Drift Dep Algal Ma Iron Dep X Inundati Sparsely	orm is revised from Micel/www.nrcs.usda.gov OGY Idrology Indicators: cators (minimum of orwater (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In the Vegetated Concave Type of the Vegetated Concave Type	ne is requi magery (B' Surface (I	ired; check all that a X Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	eves (B9) 3) s (B14) Odor (C1 eres on leed Iron (ction in Tie (C7) a (D9) Remarks)) Living Ro (C4)	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimer Drift Dep Algal Mater M Iron Dep X Inundati Sparsely Field Observations	orm is revised from Micel/www.nrcs.usda.gov order ord	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck (7) Gauge or No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F	exp2_0512 aves (B9) 3) s (B14) Ddor (C1 eres on led Iron (ction in Tiel (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4)	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturatio X Water M Sedimel Drift Dep Algal Ma Iron Dep X Inundati Sparsely Field Obser Surface Water Table Saturation F	orm is revised from Micel/www.nrcs.usda.gov order ord	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck (7) Gauge or No X No X	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduce n Reduce Surface Well Dat blain in F	exp2_0512 aves (B9) 3) s (B14) Ddor (C1 eres on led Iron (ction in Tiel (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4)	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturatio X Water M Sedimer Drift Der Algal Ma Iron Der X Inundati Sparsely Field Obser Surface Wat Water Table Saturation F (includes ca	orm is revised from Micel/www.nrcs.usda.gov order ord	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or V S8) Other (Exp. No X No X	apply) ned Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (i Depth (i	vves (B9) 3) s (B14) Odor (C1 eres on lettion in Title (C7) a (D9) Remarks) nches): _ nches): _ nches): _) Living Ro (C4) illed Soils	Seconda Surfa Drair Dry- Cray Sots (C3) Satu Stun S (C6) X Geor X FAC	ry Indicators (minimum of two required ace Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Depth (i Remarks: This data for Errata. (http HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati X Water M Sedimer Drift Der Algal Ma Iron Der X Inundati Sparsely Field Obser Surface Water Table Saturation F (includes car Describe Reserved)	orm is revised from Mici//www.nrcs.usda.gov order ord	magery (B' Surface (I s gauge, me	ired; check all that a X Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck To Gauge or VB8) Other (Exp. No X No X No X Onitoring well, aeria	apply) ned Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	eves (B9) 3) s (B14) Odor (C1 eres on leed Iron (C7) a (D9) Remarks) nches): _ nches): _ nches): _ , previou) Living Ro (C4) illed Soils	Seconda Surfa Drair Dry- Cray Sots (C3) Satu Stun S (C6) X Geor X FAC	ry Indicators (minimum of two required ace Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ject	City/Cour	nty: Fort Wa	ıyne/Allen	Sampling	Date: 9/27/2	2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	∍partment		State: IN	Sampling	Point: DF	P 44
Investigator(s): Josh Iddings, Cameron Schuler, and Aly	yssa Damian	o Section, T	ownship, Ra	inge: Section 04,	Township 31 N, R	tange 13 E	
Landform (hillside, terrace, etc.): Tillplain		!	Local relief (c	concave, convex, no	one): Flat		
Slope (%): 2 Lat: 41.173751		Long:{	85.084039		Datum: WG	S_1984	
Soil Map Unit Name: Morley silty clay loam, 6 to 12 per	cent slopes,						
Are climatic / hydrologic conditions on the site typical fo	•	-	Yes X		o, explain in Rema		
Are Vegetation , Soil , or Hydrology s							
Are Vegetation, Soil, or Hydrologyr							•
SUMMARY OF FINDINGS – Attach site ma						nt features,	, etc.
Hydrophytic Vegetation Present? Yes No	х X	Is the	Sampled Ar	rea			
			n a Wetland?		No X		
Wetland Hydrology Present? Yes No	X				<u> </u>	_	
Remarks: DP 44 is representative of the upland area surrounding	g Wetland 20).					
VEGETATION – Use scientific names of plan	nts.						
	Absolute	Dominant	Indicator	Γ			
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Tes	t worksheet:		
1. Acer saccharinum	75	Yes	FACW		nant Species Tha		(4)
2. Prunus serotina	10	No No	FACU	Are OBL, FACW		2	(A)
3. Acer negundo	10	No No	FAC		Dominant Specie		(D)
4. Fraxinus pennsylvanica	5	<u>No</u>	FACW_	Across All Strata		4	_(B)
5	100 =	=Total Cover		Percent of Domir Are OBL, FACW	nant Species Tha , or FAC:		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)						· <u></u>	•
Lonicera tatarica	25	Yes	FACU	Prevalence Inde	ex worksheet:	_	_
2. Cornus drummondii	5	No	FAC	Total % Cov	ver of:	Multiply by:	_
3. Elaeagnus umbellata	2	No	UPL	OBL species	0 x 1		_
4				FACW species			-
5				FAC species	31 x 3 :		-
	32 =	=Total Cover		FACU species		-	-
Herb Stratum (Plot size: 5 ft)	4.5			UPL species	2 x 5 =		- (=)
1. Geum canadense	15	Yes	FAC	Column Totals:	159 (A)	443	_(B)
2. Symphyotrichum lateriflorum	1	No No	FACW	Prevalence Inc	dex = B/A =	2.79	-
Sanicula odorata Dipsacus fullonum	1	No No	FACU	Ludrophytic Vo	getation Indicate		
		INU	FACU		st for Hydrophytic		
					st for Hydrophytic ce Test is >50%	Vegetation	
					ce rest is >50% ce Index is ≤3.0 ¹		
7. 8.					ce index is ≤3.0 ogical Adaptations	1 (Dravide sur	norting
					emarks or on a se		porung
10					Hydrophytic Vege	•	ain)
10	19 =	=Total Cover			dric soil and wetla	` .	,
Woody Vine Stratum (Plot size: 30 ft)		•			ss disturbed or pro		Iliuət
1. Vitis labrusca	8	Yes	FACU				
2.				Hydrophytic Vegetation			
	8 =	Total Cover		_	Yes N	o_X_	
Remarks: (Include photo numbers here or on a separa	ate sheet.)			<u> </u>			
, ,	,						

Profile Desc	cription: (Describe	to the dept	h needed to doc	ument tl	ne indica	tor or o	confirm the absence of	findicators.)
Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	97	10YR 4/1	3	D	M	Loamy/Clayey	
5-12	10YR 4/2	98	10YR 5/4	2	С	M	Loamy/Clayey	
12-18	10YR 5/2	95	10YR 4/6	5	С	M	Loamy/Clayey	
<u> </u>								
	oncentration, D=Dep	letion, RM=	Reduced Matrix, I	MS=Mas	ked Sand	d Grains		PL=Pore Lining, M=Matrix.
Hydric Soil					. (0.1)			for Problematic Hydric Soils ³ :
Histosol			Sandy Gle					Prairie Redox (A16)
	pipedon (A2)		Sandy Re					anganese Masses (F12)
Black Hi	` '		Stripped N		5)			arent Material (F21)
	n Sulfide (A4)		Dark Surfa		oral (F1)			Shallow Dark Surface (F22)
2 cm Mu	Layers (A5)		Loamy Mu Loamy Gle	•	• •		Other	(Explain in Remarks)
	ick (A10) I Below Dark Surface	Δ (Δ11)	X Depleted I	-				
<u> </u>	ark Surface (A12)	(Д11)	Redox Da	,	,		³ Indicators	of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted I		` '			d hydrology must be present,
	cky Peat or Peat (S3	3)	Redox De		` '			disturbed or problematic.
	Layer (if observed):	•		p. 000.01.	- (. 0)		4	The second of problems and
Type:	Layer (II observed).							
Depth (ir	nches).						Hydric Soil Present?	Yes X No
			_					
Remarks:	m is revised from Mi	dwoot Dogic	anal Cunnlament \	/orgion (O to incl	udo tho	NDCS Field Indicators	of Hydria Saila Varaian 7.0, 2015
	//www.nrcs.usda.go\							of Hydric Soils, Version 7.0, 2015
	,,ge.	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•,	
HYDROLO	GY							
r								
1	drology Indicators:	!					Casandani	
	cators (minimum of o	ne is require	•		(DO)			/ Indicators (minimum of two required)
	Water (A1) ter Table (A2)		Water-Sta					e Soil Cracks (B6)
Saturatio	` ,		Aquatic Fa	`	,			nge Patterns (B10) eason Water Table (C2)
	arks (B1)		True Aqua Hydrogen			١		sh Burrows (C8)
	nt Deposits (B2)		Oxidized F					ition Visible on Aerial Imagery (C9)
	oosits (B3)		Presence			-		ed or Stressed Plants (D1)
	it or Crust (B4)		Recent Iro		`	,		orphic Position (D2)
	osits (B5)		Thin Muck			iica coii	` '	leutral Test (D5)
	on Visible on Aerial I	magery (B7)			` '			reducti Feet (50)
	Vegetated Concave							
Field Obser							T	
Surface Wat		s	No X	Depth (i	nches).			
Water Table			No X	. ,	nches):			
Saturation P			No X	Depth (i	_		Wetland Hydrology	Present? Yes No X
(includes car				F (1				,
,	corded Data (stream	gauge, moi	nitoring well, aeria	al photos	, previous	s inspec	tions), if available:	
	,	J J ,	J ,				, ·	
Remarks:								

Midwest Region

Project/Site: Clinton Street Roadway Improvement Proj	ject	City/Cour	nty: Fort Wa	yne/Allen	Sampling Date:	9/27/2022
Applicant/Owner: City of Fort Wayne and Allen Co.	Highway De	partment		State: IN	Sampling Point:	DP 45
Investigator(s): Josh Iddings, Cameron Schuler, and Aly	yssa Damian	o_Section, T	ownship, Ra	nge: Section 04, Towns	ship 31 N, Range 1	3 E
Landform (hillside, terrace, etc.): Tillplain		I	Local relief (c	concave, convex, none):	Concave	
Slope (%): 0.5 Lat: 41.177067		Long: _{	85.077828		 Datum: <u>WGS_198</u> 4	ļ
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percent	t slopes, ero			NWI classifi		
Are climatic / hydrologic conditions on the site typical for			Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrologys	significantly d				Yes X No	_
Are Vegetation, Soil, or Hydrologyn	naturally prob	olematic? (I	If needed, ex	plain any answers in Rei	marks.)	
SUMMARY OF FINDINGS – Attach site ma						ures, etc.
Hydrophytic Vegetation Present? Yes X No)	Is the	Sampled Ar	rea		
			n a Wetland?		No	
		<u></u>				
Remarks:						
DP 45 is representative of Wetland 21.						
VECETATION Lies scientific names of plan						
VEGETATION – Use scientific names of plan	Absolute	Dominant	Indicator	<u> </u>		
Tree Stratum (Plot size: 30 ft)		Species?	Status	Dominance Test wor	ksheet:	
1.				Number of Dominant S	•	
2.				Are OBL, FACW, or F.	AC:	3 (A)
3.				Total Number of Domi	•	- (D)
4.				Across All Strata:		3 (B)
5		Total Cover		Percent of Dominant S Are OBL, FACW, or Fa	•	0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)		· I Otal Govel		Ale ODE, I AOW, OLL	AO	<u> </u>
1.				Prevalence Index wo	orksheet:	
2.				Total % Cover of:	: Multiply	by:
3.				OBL species 30	0 x 1 = :	30
4				FACW species 70		40
5		=		FAC species 0		0
(District Charters (District Eff	=	=Total Cover		FACU species 0		0
Herb Stratum (Plot size: 5 ft) 1. Echinochloa crus-galli	35	Yes	FACW	UPL species 0 Column Totals: 10		0 70 (B)
2. Carex lurida	25	Yes	OBL	Prevalence Index =	` ′	`
3. Phalaris arundinacea	20	Yes	FACW	11000.0		
4. Persicaria maculosa	10	No	FACW	Hydrophytic Vegetat	ion Indicators:	
5. Bidens frondosa	5	No	FACW		Hydrophytic Vegeta	ation
6. Leersia oryzoides	5	No	OBL	X 2 - Dominance Te	st is >50%	
7				X 3 - Prevalence Inc		
8					Adaptations ¹ (Provi	
9.					s or on a separate	•
10	100 -	Total Cover		.	ophytic Vegetation ¹	
Woody Vine Stratum (Plot size: 30 ft)	100 =	- Lorai Covei		¹ Indicators of hydric so be present, unless dis		
1			ļ	·	turbed or problema	iic.
2.				Hydrophytic Vegetation		
	=	Total Cover		_	X No	
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 2/1	100					Loamy/Clayey			
10-18	10YR 4/1	90	10YR 4/4	10	С	М	Loamy/Clayey			
_			-							
	-									
¹ Type: C=C	oncentration, D=De	alotion PM	-Paduaad Matrix N		kod Sand		21 000	tion: DI =Doro	Lining, M=Matrix	
Hydric Soil I		JIELIOII, IXIVI	-Neduced Matrix, I	vio-ivias	Neu Sanc	Giailis			lematic Hydric S	•
Histosol (Sandy Gle	ved Mat	rix (S4)			oast Prairie Re	-	
	ipedon (A2)		Sandy Re	-				on-Manganese		
Black His			Stripped M					ed Parent Mate	, ,	
	n Sulfide (A4)		Dark Surfa	-	,				ırk Surface (F22)	
	Layers (A5)		Loamy Mu		eral (F1)			ther (Explain in		
2 cm Mu			Loamy Gle	-					•	
X Depleted	Below Dark Surfac	e (A11)	X Depleted I	Matrix (F	3)					
Thick Da	rk Surface (A12)		Redox Da	rk Surfac	ce (F6)		³ Indic	ators of hydrop	hytic vegetation a	and
Sandy M	ucky Mineral (S1)		Depleted I	Dark Sur	face (F7))	W	etland hydrolog	gy must be prese	nt,
5 cm Mu	cky Peat or Peat (S	3)	Redox De	pression	s (F8)		u	nless disturbed	or problematic.	
Restrictive L	_ayer (if observed)	:								
Type:			<u></u>							
Depth (in Remarks: This data for	m is revised from M //www.nrcs.usda.go								Yes X Soils, Version 7.0	No 0, 2015
Depth (in Remarks: This data fori Errata. (http://	m is revised from M //www.nrcs.usda.go						NRCS Field Indica			
Depth (in Remarks: This data for Errata. (http://	m is revised from M //www.nrcs.usda.go	v/Internet/F					NRCS Field Indica			
Depth (in Remarks: This data for Errata. (http://www.ht	m is revised from M //www.nrcs.usda.go	v/Internet/F	SE_DOCUMENTS	5/nrcs142			NRCS Field Indica	ntors of Hydric S	Soils, Version 7.0	, 2015
Depth (in Remarks: This data for Errata. (http://www.chand.com/wetland.com/wet	m is revised from M //www.nrcs.usda.go GY drology Indicators cators (minimum of	v/Internet/F	SE_DOCUMENTS	apply)	2p2_0512	293.docx	NRCS Field Indica) Secol	ntors of Hydric S	Soils, Version 7.0	, 2015
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Midwest Region

Project/Site: Clinton Street Roadway Improvement Pro	oject	City/Cour	nty: Fort Wa	yne/Allen	Sampling D	Date: 9/27/2022
Applicant/Owner: City of Fort Wayne and Allen Co	. Highway De	partment		State: IN	Sampling P	Point: DP 46
Investigator(s): Josh Iddings, Cameron Schuler, and Al	lyssa Damian	o Section, T	ownship, Ra	nge: Section 04,	Township 31 N, Ra	inge 13 E
Landform (hillside, terrace, etc.): Tillplain		I	Local relief (c	concave, convex, no	one): Flat	
Slope (%): 1 Lat: 41.177048		Long:	85.077820		Datum: WGS	5_1984
Soil Map Unit Name: Glynwood silt loam, 2 to 6 percer	nt slopes, ero			NWI c		
Are climatic / hydrologic conditions on the site typical for	-	•	Yes X	No (If no	o, explain in Remar	rks.)
Are Vegetation , Soil , or Hydrology				<u></u>		
Are Vegetation, Soil, or Hydrology						<u> </u>
SUMMARY OF FINDINGS – Attach site ma						t features, etc.
Hydrophytic Vegetation Present? Yes No	o X	Is the	Sampled Ar	rea		
	o X		n a Wetland?		NoX	_
	o X					-
Remarks: DP 46 is representative of the upland area surroundin		l.				
VEGETATION – Use scientific names of pla	Ants. Absolute	Dominant	Indicator			
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Tes	st worksheet:	
1. Acer saccharinum	20	Yes	FACW	Number of Domi	inant Species That	
2. Picea abies	10	Yes	UPL	Are OBL, FACW	•	2 (A)
3. Acer negundo	5	No	FAC	Total Number of	Dominant Species	;
4				Across All Strata	1:	5 (B)
5	35 =	Total Cover			nant Species That	40.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft	<u> </u>	- Lorai Covei		Are OBL, FACW	, OF FAC.	40.0% (A/B)
1. Lonicera tatarica	10	Yes	FACU	Prevalence Inde	ex worksheet:	
2.		100		Total % Cov		ultiply by:
3.				OBL species	0 x 1 =	
4.				FACW species	-	
5.				FAC species	20 x 3 =	60
	10 =	Total Cover		FACU species	107 x 4 =	428
Herb Stratum (Plot size: 5 ft)				UPL species	10 x 5 =	50
Dipsacus fullonum	90	Yes	FACU	Column Totals:	157 (A)	578 (B)
2. Cirsium discolor	5	No	FACU	Prevalence In	idex = B/A =	3.68
3. Setaria pumila	5	No	FAC	<u> </u>		
4					getation Indicator	
5					est for Hydrophytic	Vegetation
6					ice Test is >50%	
7					ice Index is ≤3.0 ¹	
8.					ogical Adaptations ' emarks or on a sep	(Provide supporting
9.					•	,
10	100 =	Total Cover			Hydrophytic Veget	,
Woody Vine Stratum (Plot size: 30 ft	100 -	· I Ulai Guvei			dric soil and wetlan ss disturbed or prob	
1. Toxicodendron radicans	10	Yes	FAC	•	33 diota, 200 C. F	Jiomane.
2. Vitis labrusca	2	No	FACU	Hydrophytic Vegetation		
	12 =	Total Cover		_	Yes No	X
Remarks: (Include photo numbers here or on a separ	rate sheet)				<u> </u>	
Tollians. (modas prote name)	u.o oee,					

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/2	100	_		<u> </u>		Loamy/Clayey	
7-18	10YR 4/4	97	10YR 5/6	3	С	M	Loamy/Clayey	
1								
	Concentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
•	I Indicators:		Sandy Cla	vad Mat	riv (C4)			for Problematic Hydric Soils ³ :
Histoso			Sandy Gle Sandy Red	-				rairie Redox (A16) nganese Masses (F12)
	pipedon (A2)		Stripped M	, ,				, ,
	listic (A3) en Sulfide (A4)		Stripped iv Dark Surfa	-))			rent Material (F21) allow Dark Surface (F22)
	ed Layers (A5)		Loamy Mu		oral (E1)			Explain in Remarks)
	uck (A10)		Loamy Gle	-			Other (i	Explain in Remarks)
	ed Below Dark Surface	(Δ11)	Depleted N	-				
	eark Surface (A12)	(7.11)	Redox Dai	`	,		³ Indicators of	of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted [, ,	1		hydrology must be present,
	ucky Peat or Peat (S3)	Redox De		` '			disturbed or problematic.
	Layer (if observed):	,	<u> </u>		(- /			<u>'</u>
Type:	Layer (ii observea).							
Depth (Remarks: This data for	orm is revised from Mico://www.nrcs.usda.gov							Yes No >
Depth (Remarks: This data for Errata. (http://oww.new.org/	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicators o	
Depth (Remarks: This data for Errata. (http://pubs.com/	orm is revised from Mic o://www.nrcs.usda.gov						NRCS Field Indicators o	
Depth (Remarks: This data for Errata. (http://doi.org/10.1011) HYDROLO Wetland Hydrony	orm is revised from Micoci//www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicators o	f Hydric Soils, Version 7.0, 2015
Depth (Remarks: This data for Errata. (http://proceedings.) HYDROLO Wetland Hy Primary Ind.	orm is revised from Micoci//www.nrcs.usda.gov OGY ydrology Indicators:	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicators o) Secondary	f Hydric Soils, Version 7.0, 2015
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Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W	OGY ydrology Indicators: licators (minimum of o	/Internet/F	red; check all that a	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicators o) Secondary Surface Drainag	ndicators (minimum of two require Soil Cracks (B6) Patterns (B10)
Depth (Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary Ind Surface High W Saturat	OGY OGY ydrology Indicators: licators (minimum of of the Water (A1) ater Table (A2) ion (A3)	/Internet/F	red; check all that a water-Stale Aquatic Fa	apply) ined Lea una (B1 tic Plant	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicators o) Secondary Surface Drainag Dry-Sea	ndicators (minimum of two require Soil Cracks (B6) the Patterns (B10) ason Water Table (C2)
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Midwest Region



Appendix C - Quality Assessment Forms

QHEI HHEI



Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

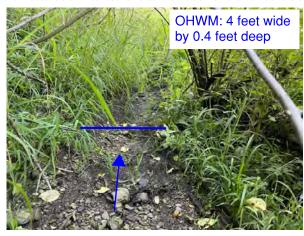
33

SITE NAME/LOCATION UNT 1 to Beckett's Run/Fort Wayne, Allen County, Indiana RIVER BASIN St Joseph River DRAINAGE AREA (mi²) 0.01 SITE NUMBER 159 LAT. 41.15028 LONG. -85.111173 RIVER CODE LENGTH OF STREAM REACH (ft) RIVER MILE DATE 09/20/22 SCORER C. Schuler COMMENTS Ephemeral NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions NONE / NATURAL CHANNEL ☐ RECOVERED ☐ RECOVERING ☐ RECENT OR NO RECOVERY STREAM CHANNEL **MODIFICATIONS:** SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes HHEI (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. Metric PERCENT **PERCENT Points** BLDR SLABS [16 pts] SILT [3 pt] 30% 0% BOULDER (>256 mm) [16 pts] LEAF PACK/WOODY DEBRIS [3 pts] 0% 0% Substrate 0% BEDROCK [16 pt] 0% FINE DETRITUS [3 pts] Max = 400% 0% COBBLE (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] 30% 0% GRAVEL (2-64 mm) [9 pts] MUCK [0 pts] 18 40% 0% SAND (<2 mm) [6 pts] ARTIFICIAL [3 pts] Total of Percentages of (B) (A) 0.00% 100% A + BBldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: 3 Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Pool Depth evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Max = 30> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts] > 22.5 - 30 cm [30 pts] < 5 cm [5 pts] > 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts] 0 No flowing water COMMENTS **MAXIMUM POOL DEPTH (centimeters):** BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Bankfull > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Width Max=30 > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] \leq 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS **AVERAGE BANKFULL WIDTH (meters):** 1,22 15 This information must also be completed **RIPARIAN ZONE AND FLOODPLAIN QUALITY** ☆NOTE: River Left (L) and Right (R) as looking downstream **RIPARIAN WIDTH** FLOODPLAIN QUALITY (Most Predominant per Bank) (Per Bank) R Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Moderate 5-10m Urban or Industrial Field Open Pasture, Row Crop Narrow <5m Residential, Park, New Field Fenced Pasture None Mining or Construction **COMMENTS Grassy ROW and immature forest** FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent) Stream Flowing Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 >3 0.5 1.5 STREAM GRADIENT ESTIMATE Moderate (2 ft/100 ft) Flat (0.5 ft/100 ft) Flat to Moderate Moderate to Severe Severe (10 ft/100 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
QHEI PERFORMED? - Yes ✓ No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)
WWH Name: Distance from Evaluated Stream
CWH Name: Distance from Evaluated Stream
EWH Name: Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Cedarville NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Allen Township / City: St. Joseph/Fort Wayne
MISCELLANEOUS
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 09/19/22 _ Quantity: 0.04
Photograph Information:
Elevated Turbidity? (Y/N): _ N Canopy (% open): _ 100%
Were samples collected for water chemistry? (Y/N): _ N (Note lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:
Additional comments/description of pollution impacts:
BIOTIC EVALUATION
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the s ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N) N Voucher? (Y/
Comments Regarding Biology:

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location



Save as pdf





Chief Primary Headwater Habitat Evaluation Form

12 HHEI Score (sum of metrics 1, 2, 3):

SITE NAME/LOCATION UNT 2 to Beckett's Run/Fort Wayne, Allen County, Indiana			
SITE NUMBER RIVER BASIN St Joseph River DRAINAGE AREA (mi²)	.01		
LENGTH OF STREAM REACH (ft) 78 LAT. 41.15059 LONG85.110770 RIVER CODE RIVER MILE			
DATE 09/20/22 SCORER C. Schuler COMMENTS Ephemeral			
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions		
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY		
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE	HHEI Metric Points Substrate Max = 40 7		
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Depth		
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check <i>ONLY</i> one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30		
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]			
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	0		
COMMENTS No flowing water MAXIMUM POOL DEPTH (centimeters): 0			
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankfull		
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width Max=30		
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]			
COMMENTS AVERAGE BANKFULL WIDTH (meters): 0.45	5		
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field None Residential, Park, New Field Mining or Construction COMMENTS Immature forest	.		
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	-		
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 0.5 1.0 2.0 3.0 3.0 3.0 3.0 3.0			
STREAM GRADIENT ESTIMATE Flat (0.5 ft/100 ft) Flat to Moderate Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/100 ft))O ft)		

ADDITIONAL OTDEAN INFORMATION (This left was aller Most Al	as he Committee the
ADDITIONAL STREAM INFORMATION (This Information Must Als	
QHEI PERFORMED? - Yes V No QHEI Score	(If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	
EWH Name:	
-	ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name: Cedarville	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Allen Town	nship / City:_ St. Joseph/Fort Wayne
MISCELLANEOUS	
Base Flow Conditions? (Y/N): N Date of last precipitation:	09/19/22 Quantity: 0.04
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 0	%
Were samples collected for water chemistry? (Y/N): N (Note I	ab sample no. or id. and attach results) Lab Number:
	pH (S.U.) Conductivity (μmhos/cm)
	ot, please explain:
s the sampling reach representative of the stream (17/4) in the	rt, please explain.
<u> </u>	
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
N N N N N N N N N N N N N N N N N N N	
· · · · · · · · · · · · · · · · · · ·	ner collections optional. NOTE: all voucher samples must be labeled with the s ata sheets from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders	Observed (V/N) N Voucher (V/N) N
Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Aqu	Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N
Comments Regarding Biology:	

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location





Primary Headwater Habitat Evaluation Form

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HHEI Score (sum of metrics 1, 2, 3): SITE NAME/LOCATION UNT 3 to Beckett's Run/Fort Wayne, Allen County, Indiana RIVER BASIN St Joseph River DRAINAGE AREA (mi²) 0.02 SITE NUMBER 200 LAT. 41.15143 LONG. -85.110667 RIVER CODE LENGTH OF STREAM REACH (ft) RIVER MILE DATE 09/20/22 SCORER C. Schuler COMMENTS Ephemeral NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY STREAM CHANNEL **MODIFICATIONS:** SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. HHEI Metric PERCENT **PERCENT Points** BLDR SLABS [16 pts] SILT [3 pt] 8% 0% BOULDER (>256 mm) [16 pts] LEAF PACK/WOODY DEBRIS [3 pts] 0% 2% Substrate 0% BEDROCK [16 pt] 0% FINE DETRITUS [3 pts] Max = 400% 20% COBBLE (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] 40% 0% GRAVEL (2-64 mm) [9 pts] MUCK [0 pts] 20 30% 0% SAND (<2 mm) [6 pts] ARTIFICIAL [3 pts] Total of Percentages of (B) (A) Substrate Percentage 22.00% 100% A + BBldr Slabs, Boulder, Cobble, Bedrock TOTAL NUMBER OF SUBSTRATE TYPES: 5 SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Pool Depth evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Max = 30> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts] > 22.5 - 30 cm [30 pts] < 5 cm [5 pts] > 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts] 0 No flowing water COMMENTS **MAXIMUM POOL DEPTH (centimeters):** BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Bankfull > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Width Max=30 > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] \leq 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS **AVERAGE BANKFULL WIDTH (meters):** 1,22 15 This information must also be completed **RIPARIAN ZONE AND FLOODPLAIN QUALITY** ☆NOTE: River Left (L) and Right (R) as looking downstream **RIPARIAN WIDTH FLOODPLAIN QUALITY** (Most Predominant per Bank) (Per Bank) R Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Moderate 5-10m Urban or Industrial Field Open Pasture, Row Crop Narrow <5m Residential, Park, New Field Fenced Pasture None Mining or Construction COMMENTS Grassy ROW and immature forest FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent) Stream Flowing Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 0.5 1.5 >3 STREAM GRADIENT ESTIMATE Moderate (2 ft/100 ft) Flat (0.5 ft/100 ft) Flat to Moderate Moderate to Severe Severe (10 ft/100 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
QHEI PERFORMED? - Yes ✓ No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)
WWH Name: Distance from Evaluated Stream
CWH Name: Distance from Evaluated Stream
EWH Name: Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Cedarville NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Allen Township / City: St. Joseph/Fort Wayne
MISCELLANEOUS
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 09/19/22 _ Quantity: 0.04
Photograph Information:
Elevated Turbidity? (Y/N): _ N Canopy (% open): _ 100%
Were samples collected for water chemistry? (Y/N): _ N (Note lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:
Additional comments/description of pollution impacts:
BIOTIC EVALUATION
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the s ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N) N Voucher? (Y/
Comments Regarding Biology:

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location





Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 57	
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Leigh Stevenson and Cameron Schuler Scorars Full Name & Affiliation; American Structurepoint, Inc. Miles Five Code: STORET 8; Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines verified Miles Five Code: STORET 8; Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines verified Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines verified Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Verified Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.14.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.26 R5.5. 11.09.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Lat / Long; At 1. 15.26 Gines Five Code: Long; At 1. 15.26 Gines Five Code: Long; At 1. 15.26 Gines	Stream & Location: Beckett's Run	_ <i>RM:</i>	Date: 1 20 / 22
SUBSTRATE Check OMLY Two substrate TYPE BOLES; Check OME (0* 2 & average)		American	Structurepoint, Inc.
BEST TYPES POOL RIFEL HARDPAN (4) LIMISTONE (1) LIMI		4 5 /8 <u>5</u> /	11095 Office verified location □
BEST TYPES ONLEGE OTHER TYPES ONLEGE O	1] SUBSTRATE Check ONLY Two substrate TYPE BOXES;	ONE (<i>Or 2</i> &	average)
BOULDER [9] 5 3 DEFINITUS [3] TILLE [1 MOS [6] MODERATE [1] MODERATE [2] MODERAT	BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN		<u> </u>
	BLDR /SLABS [10]		☐ MODERATE [-1] Substrate ☑ NORMAL [0] ☐ FREE [1]
	NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources) LACUSTURINE [0]] 🖺 🐪 ``	NORMAL [0]
Quality 2-Highest quality in quality 2-Moderate amounts, but not of highest quality or in small amounts of highest quality or in or deep, and in or of expensive profiles in deep or fast water, large and the profiles of highest quality or in or deep, and in or of expensive profiles in deep or fast water, large and the profiles of highest quality or in or deep, and the profiles of highest quality or in order to profile amounts of highest quality or in order to profile amounts of highest quality or in order to profile amounts of highest quality or in order to profile amounts of highest quality or deep order to profile amounts of highest quality or deep order to profile amounts of highest quality or deep order to profile amounts of highest quality or deep order to profile amounts of highest quality or deep order to profile amounts of highest quality or deep order to profile amounts of highest quality or deep order to profile amounts of highest quality or deep order to profile amounts or deep order to profil	Commonte _ c c c c c c c c c c c c c c c c c c		□ NONE [1]
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4]	quality; 2-Moderate amounts, but not of highest quality or in small amounts quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functiona	s of highest r, large I pools. [ERS [1] ['TES [1] [Check ONE (Or 2 & average) EXTENSIVE >75% [11] MODERATE 25-75% [7] SPARSE 5-<25% [3] NEARLY ABSENT <5% [1]
SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4]	Comments		
A BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)	SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4]		Channel
RIPARIAN WIDTH EROSION WIDE > 50m [4] NARROW 5-10m [2] NARROW 5-10m [2] NARROW 5-10m [2] HEAVY / SEVERE [1] VERY NARROW < 5m [1] OPEN PASTURE, ROWCROP [0] NONE [0] NONE [0] CURRENT VELOCITY Check ONE (0/2 & average) NOT NOTE (1) Check ONE (0/2 & average) O.7- <in [0]="" [1]="" [2]="" [4]="" all="" apply="" check="" comments="" current="" o.2-<0.4m="" o.3-<0.2m="" o.4-<0.7m="" riparian="" td="" tha<="" that="" velocity="" width="" =""><td></td><td></td><td></td></in>			
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH Check ONE (O/12 & average)	River right looking downstream RIPARIAN WIDTH EROSION WIDE > 50m [4] NONE / LITTLE [3]	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] Predominant land use(s) Om riparian. Riparian
MAXIMUM DEPTH Check ONE (ONLY!) Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply POOL WIDTH > RIFFLE WIDTH [2] Concernial Conc	Comments		
Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Boulder) [2] NONE [MAXIMUM DEPTH CHANNEL WIDTH CURRENT VELOCITY Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply □ > 1m [6] □ POOL WIDTH > RIFFLE WIDTH [2] □ TORRENTIAL [-1] □ SLOW [1] □ 0.4-<0.7m [2]	TIAL [-1] TTENT [-2] 1]	Primary Contact Secondary Contact (circle one and comment on back) Pool / Current
of riffle-obligate species: RIFFLE DEPTH BEST AREAS > 10cm [2] BEST AREAS 5-10cm [1] BEST AREAS 5-10cm [1] BEST AREAS 5-5cm [metric=0] Comments Check ONE (Or 2 & average). RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS NONE [2] NONE			12
DRAINAGE AREA 7 MODERATE (6-10)	of riffle-obligate species: RIFFLE DEPTH RUN DEPTH □ BEST AREAS > 10cm [2] □ BEST AREAS 5-10cm [1] □ BEST AREAS 5-10cm [1] □ BEST AREAS < 5cm [metric=0] Comments □ Check ONE (Or 2 & average). RIFFLE / RUN SUBSTRATE RIF □ STABLE (e.g., Cobble, Boulder) [2] □ MAXIMUM > 50cm [1] □ MOD. STABLE (e.g., Large Gravel) [1] □ UNSTABLE (e.g., Fine Gravel, Sand) [0]	FLE / RUN	N EMBEDDEDNESS ONE [2] OW [1] ODERATE [0] KTENSIVE [-1] Maximum NO RIFFLE [metric=0] Riffle / Run Maximum
	DRAINAGE AREA MODERATE [6-10]		11. 118 11

A] SAMPLE Check A	ED REACH ALL that apply	OHWM: 26.5 feet x 1.7 feet	Is reach typical of steam?, Recreation	n/ Observed - Inferred, Other	r/ Sampling observations, Concerns, Acc	ess directions, etc.
METHOD BOAT WADE L. LINE OTHER DISTANCE	STAGE 1st -sample pass- 2nd HIGH UP NORMAL LOW DRY	Aquatic macro-invertebrates and m	innows were observed within the stre	eam		
□ 0.5 Km □ 0.2 Km □ 0.15 Km □ 0.12 Km □ 0.12 Km □ OTHER	CLARITY 1stsample pass 2nd < 20 cm ✓ 20-<40 cm ☐ 40-70 cm ☐ > 70 cm/ CTB ☐ SECCHI DEPTH	☐ INVASIVE MACROPHYTES ☐ EXCESS TURBIDITY ☐ DISCOLORATION ☐ FOAM / SCUM	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED	Circle some & COMMENT	EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION / SURFACE	F] MEASUREMENTS x width 26.5 ft x depth 1.7 ft max. depth x bankfull width 30 ft bankfull x depth 2.5 ft
CANOP □ > 85%- OPI ⋈ 55%-<85% □ 30%-<55% □ 10%-<30% □ <10%- CLO	EN gg 2nd cm	TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE		FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	W/D ratio bankfull max, depth floodprone x ² width entrench. ratio Legacy Tree:

Stream Drawing:





ChieFPA Primary Headwater Habitat Evaluation Form

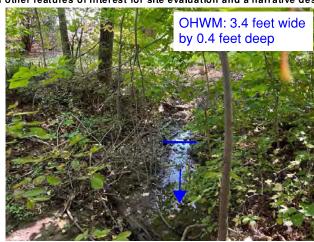
HHEI Score (sum of metrics 1, 2, 3):

	SITE NAME/LOCATION UNT 1 to St. Joseph River/Fort Wayne, Allen County, Indiana				
SITE NUMBER RIVER BASIN St Joseph River DRAINAGE AREA (mi²) 0.01					
LENGTH OF STREAM REACH (ft) 87 LAT. 41.15786 LONG85.106767 RIVER CODE RIVER MILE					
DATE 09/20/22 SCORER C. Schuler COMMENTS Intermittent					
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	ructions				
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERED RECO	OVERY				
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes					
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE PERCENT	HHEI Metric				
□ □ BLDR SLABS [16 pts] □ □ SILT [3 pt] 30%	Points				
BOULDER (>256 mm) [16 pts] BEDROCK [16 pt] D LEAF PACK/WOODY DEBRIS [3 pts] O% FINE DETRITUS [3 pts] O% O%	Substrate				
COBBLE (65-256 mm) [12 pts] 10% CLAY or HARDPAN [0 pt] 0%	Max = 40				
✓ □ GRAVEL (2-64 mm) [9 pts] 30% □ MUCK [0 pts] 0% ■ ✓ SAND (<2 mm) [6 pts]	19				
Total of Percentages of 10.00% (A) Substrate Percentage Check (B)	A + B				
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 15 TOTAL NUMBER OF SUBSTRATE TYPES: 4					
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Depth				
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30				
> 22.5 - 30 cm [30 pts]	25				
COMMENTS MAXIMUM POOL DEPTH (centimeters): 0					
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankfull Width				
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]					
	Max=30				
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	lr— <u>-</u>				
	Max=30				
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS AVERAGE BANKFULL WIDTH (meters): 1.04 This information must also be completed	lr— <u>-</u>				
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY AVERAGE BANKFULL WIDTH (meters): 1.04 This information to must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream	lr— <u>-</u>				
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) AVERAGE BANKFULL WIDTH (meters): 1.04 AVERAGE BANKFULL WIDTH (meters): 1.04 L R (Most Predominant per Bank) L R	lr— <u>-</u>				
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) Wide >10m Mature Forest, Wetland Conservation Tillage	lr— <u>-</u>				
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m AVERAGE BANKFULL WIDTH (meters): 1.04 This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Urban or Industrial Field Conservation Tillage	15				
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Narrow <5m AVERAGE BANKFULL WIDTH (meters): 1.04 AVERAGE BANKFULL WIDTH (meters)	15				
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m AVERAGE BANKFULL WIDTH (meters): 1.04 This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Urban or Industrial Field Conservation Tillage	15				
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field None COMMENTS Grassy ROW and immature forest AVERAGE BANKFULL WIDTH (meters): 1.04 AVERAGE BANKFULL WIDTH (meters)	15				
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Residential, Park, New Field None COMMENTS Grassy ROW and immature forest FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing AVERAGE BANKFULL WIDTH (meters): 1.04 1.04 AVERAGE BANKFULL WIDTH (meters): 1.04 AVERAGE BANKFULL WIDTH (meters):	15 op				
AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream: RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field None COMMENTS Grassy ROW and immature forest FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	15 op				
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This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH RIPARIAN WIDTH RIPAGE BANKFULL WIDTH (Meters): AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY Most Predominant per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Residential, Park, New Field Pen Pasture, Row Cr None COMMENTS Grassy ROW and immature forest FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 AVERAGE BANKFULL WIDTH (meters): 1.04 AVERAGE BANKFULL WIDTH (Logh Content) ANOTE: River Left (L) and Right (R) as looking downstream Average (Logh Content) ANOTE: River Left (L) and Right (R) as looking downstream Average (Logh Content) ANOTE: River Left (L) and Right (R) as looking downstream Average (Logh Content) ANOTE: River Left (L) and Right (R) as looking downstream Average (Logh Content) ANOTE: River Left (L) and Right (R) as looking downstream Average (Logh Content) ANOTE: River Left (L) and Right (R) as looking downstream Average (Logh Content) ANOTE: River Left (L) and Right (R) as looking downstream Average (Logh Content) ANOTE: River Left (L) and Right (R) as looking downstream Average (Logh Content) ANOTE: River Left (L) and Right (R) as looking down	15 op				
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ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach Completed QHEI Form)	
DOWNSTREAM DESIGNATED USE(S)	
WWH Name: Distance from Evaluated Stream	
CWH Name: Distance from Evaluated Stream	
EWH Name: Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE	LOCATION
USGS Quadrangle Name: Cedarville NRCS Soil Map Page: NRCS Soil Map Street	am Order
County: Allen Township / City: St. Joseph/Fort Wayne	
MISCELLANEOUS	
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 09/19/22 _ Quantity: 0.04	
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 100%	
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. and attach results) Lab Number:	
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (μmhos/cm)	
Is the sampling reach representative of the stream (Y/N) If not, please explain:	
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment	
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (·? (Y/N) N
Comments Regarding Biology:	· /
Sommerical Registering Bloody).	
<u>I</u>	

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location







Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score:	50.5
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Stream & Location: Swift Ditch	RM: Date: 😭 20 / 22
Josh Iddings and Alyssa Damiano Scorers Full Name	e & Affiliation: American Structurepoint, Inc.
River Code: STORET #: Lat./ Lon	192.: 41 . 1646 / 185 . 1047 Office verified location
1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present	Check ONE (Or 2 & average)
BEST TYPES POOL RIFFLE HARDPAN [4] BOULDER [9] GRAVEL [7] SAND [6] BEDROCK [5] NUMBER OF BEST TYPES: OTHER TYPES POOL RIFFLE HARDPAN [4] DETRITUS [3] AUGUBLE [3] MUCK [2] MUCK [2] ARTIFICIAL [0] SAND [6] SAND [6] GScore natural substrates; ignore (Score natural substrates) Sudge from point-sources) Somments	ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] SANDSTONE [0] RIP/RAP [0] PARTICIPATE [11] AND DECOME MODERATE [-1] MODERATE [-1] MODERATE [-1] MODERATE [-1]
	crin small amounts of highest of deep or fast water, large defined, functional pools. OWS, BACKWATERS [1] ATIC MACROPHYTES [1] S OR WOODY DEBRIS [1] Check ONE (Or 2 & average) EXTENSIVE >75% [11] MODERATE 25-75% [7] S PARSE 5-<25% [3] NEARLY ABSENT <5% [1]
Comments	Cover Maximum 20
☐ MODERATE [3] ☐ GOOD [5] ☐ RECOVERED [4] ☐	STABILITY HIGH [3] MODERATE [2] LOW [1] Channel Maximum 20 12
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for River right looking downstream RIPARIAN WIDTH FLOOD REROSION WIDE > 50m [4] FOREST, SWAM NONE / LITTLE [3] MODERATE 10-50m [3] SHRUB OR OLD MODERATE [2] MARROW 5-10m [2] RESIDENTIAL, INDORE [1] FENCED PASTUR NONE [0] OPEN PASTUR	PLAIN QUALITY MP [3] D FIELD [2] PARK, NEW FIELD [1] URE [1] URE [1] D Indicate predominant land use(s) past 100m riparian. Piparian
Comments	Maximum 10
Check ONE (ONLY!) Check ONE (Or 2 & average) Check □ > 1m [6] □ POOL WIDTH > RIFFLE WIDTH [2] □ TORRENTIAL □ 0.7-<1m [4]	Recreation Potential Primary Contact Secondary Contact Secondary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum
Comments No pools present	12
 ☑ BEST AREAS > 10cm [2] ☐ MAXIMUM > 50cm [2] ☐ STABLE (e.g., Cobble, B ☑ MAXIMUM < 50cm [1] ☑ MOD. STABLE (e.g., Large of the composition of the composition	STRATE RIFFLE / RUN EMBEDDEDNESS Boulder) [2]
DRAINAGE AREA MODERATE [6-10]	POOL: 0 %GLIDE: 95 Gradient 6
(1.269 mi²) ☑ HIGH - VERY HIGH [10-6] %F	RUN: 0 %RIFFLE: 5 MAXIMUM 10

A] SAMPLE Check A	ED REACH LL that apply	OHWM: 10.4 feet x 1.7 feet	Is reach typical of steam?, Recreation	n/ Observed - Inferred, <i>Other</i>	r/ Sampling observations, Concerns, Acc	ess directions, etc.
METHOD BOAT WADE L. LINE OTHER DISTANCE	STAGE 1st-sample pass- 2nd HIGH UP NORMAL LOW DRY	Frogs were observed within the str	eam			
OTHER meters	CLARITY 1stsample pass 2n < 20 cm	INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN	D] MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED	Circle some & COMMENT	E] ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION / SURFACE	F] MEASUREMENTS x width 10.4 ft x depth 1.7 ft max. depth x bankfull width bankfull x depth W/D ratio
CANOP > 85%- OPE 55%-<85% 30%-<55% 10%-<30% <10%- CLOS	EN gg cr	□ NUISANCE ODOR □ SLUDGE DEPOSITS □ CSOs/SSOs/OUTFALLS	RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE		FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	bankfull max, depth floodprone x ² width entrench. ratio Legacy Tree:

Stream Drawing:





Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI	Score:	44	
•			

Stream & Location: Martin Ditch	_ <i>RM:</i> _	Date:😭 <u>27 22</u>
J. Iddings, C. Schuler, and A. Damiano Scorers Full Name & Affiliation.		
River Code: STORET #: Lat./ Long.: 41 . 175	2 @ /8 5.	08147 Office verified location □
1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present Check	ONE (<i>Or 2</i> &	average)
BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN	0112 (07 2 0	QUALITY
□ □ BLDR /SLABS [10] □ □ □ HARDPAN [4] □ □ LIMESTONE [1] □ □ BOULDER [9] □ □ DETRITUS [3] □ □ TILLS [1]	CII T	☐ HEAVY [-2] ☐ MODERATE [-1] Substrate
□ □ COBBLE [8] 3 3 □ ☑ MUCK [2] 25 □ ☑ WETLANDS [0] □ □ GRAVEL [7] 10 □ □ SILT [2] □ □ HARDPAN [0]	SILT	☑ NORMAL [0] ☐ FREE [1]
■ SAND [6] 42 42 □ ARTIFICIAL [0] 20 20 SANDSTONE [0]	&DDEON.	
□ □ BEDROCK [5] (Score natural substrates; ignore □ RIP/RAP [0] NUMBER OF BEST TYPES: □ 4 or more [2] sludge from point-sources) □ LACUSTURINE [0]		Maximum 20
Comments 3 or less [0] SHALE [-1]	1-	□ NONE [1]
COAL FINES [-2]		
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more comm	on of margin	al AMOUNT
quality; 2-Moderate amounts, but not of highest quality or in small amounts quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water	r, large	Check ONE (Or 2 & average)
diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functiona UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWAT		☐ EXTENSIVE >75% [11] ☐ MODERATE 25-75% [7]
2 OVERHANGING VEGETATION [1] 1 ROOTWADS [1] AQUATIC MACROPHY	TES [1]	SPARSE 5-<25% [3]
SHALLOWS (IN SLOW WATER) [1] BOULDERS [1] 1 LOGS OR WOODY DE	BRIS [1] [NEARLY ABSENT <5% [1]
Comments		Maximum 6
		20
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY		
☐ HIGH [4] ☐ EXCELLENT [7] ☐ NONE [6] ☐ HIGH [3]		
 ✓ MODERATE [3] ☐ GOOD [5] ☐ RECOVERED [4] ✓ MODERATE [2 ☐ LOW [2] ✓ FAIR [3] ✓ RECOVERING [3] ☐ LOW [1] 		
□ NONE [1] □ POOR [1] □ RECENT OR NO RECOVERY [1]		Channel
Comments		Maximum 1 1 20
AT DANK EDOCION AND DIDADIAN ZONE Charle ONE in each category for EACH DANK!		
41 BANK ERUSIUN AND RIPARIAN ZUNE Uneck UNE in each category for EACH BANK (C	or 2 ner hank	(& average)
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Category for EACH BANK) (Category for EACH BA	•	« & average)
River right looking downstream RIPARIAN WIDTH FLOOD PLAIN QUAL REPOSION WIDE > 50m [4] FOREST, SWAMP [3]	ITY	CONSERVATION TILLAGE [1]
RIPARIAN WIDTH EROSION Wide > 50m [4] NONE / LITTLE [3] MODERATE 10-50m [3] MODERATE [2] NARROW 5-10m [2] RESIDENTIAL, PARK, NEW FIELD	ITY	
RIPARIAN WIDTH EROSION WIDE > 50m [4] NONE / LITTLE [3] MODERATE 10-50m [3] MODERATE [2] NARROW 5-10m [2] RESIDENTIAL, PARK, NEW FIELD HEAVY / SEVERE [1] VERY NARROW < 5m [1] FENCED PASTURE [1]	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] e predominant land use(s)
RIPARIAN WIDTH EROSION NONE / LITTLE [3]	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Predominant land use(s) Om riparian. Riparian
RIPARIAN WIDTH EROSION NONE / LITTLE [3] RESIDENTIAL, PARK, NEW FIELD RESIDENTIAL, PARK, NEW FIELD PENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] Comments	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] e predominant land use(s)
RIPARIAN WIDTH EROSION WIDE > 50m [4] FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD FENCED PASTURE [1] NONE [0] OPEN PASTURE, ROWCROP [0] Comments RIPARIAN WIDTH FLOOD PLAIN QUAL FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD FENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] OPEN PASTURE, ROWCROP [0]	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] e predominant land use(s) Om riparian. Riparian Maximum 10
RIPARIAN WIDTH EROSION NONE / LITTLE [3] RESIDENTIAL, PARK, NEW FIELD RESIDENTIAL, PARK, NEW FIELD PENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] Comments	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Pe predominant land use(s) Om riparian. Riparian Maximum
River right looking downstream RIPARIAN WIDTH REROSION WIDE > 50m [4] FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] MODERATE [2] NARROW 5-10m [2] WIDE > 50m [4] REPOSION REPOSION WIDE > 50m [4] REPOSION REST, SWAMP [3] RESIDENTIAL, PARK, NEW FIELD RESIDENTIAL, PARK,	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Pe predominant land use(s) Wining / CONSTRUCTION [0] Per predominant land use(s) Wining / CONSTRUCTION [0] Recreation Potential Primary Contact Secondary Contact
River right looking downstream RIPARIAN WIDTH FLOOD PLAIN QUAL ROSION WIDE > 50m [4] FOREST, SWAMP [3] NONE / LITTLE [3] MODERATE 10-50m [3] SHRUB OR OLD FIELD [2] MODERATE [2] NARROW 5-10m [2] RESIDENTIAL, PARK, NEW FIELD NONE [0] FENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] Comments CURRENT VELOCITY Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Pe predominant land use(s) Om riparian. Riparian Maximum 10 Recreation Potential Primary Contact
RIPARIAN WIDTH EROSION WIDE > 50m [4] FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD FENCED PASTURE [1] NONE [0] PENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] Comments CURRENT VELOCITY MAXIMUM DEPTH CHANNEL WIDTH Check ONE (ONLY!) Check ONE (ONLY!) Check ONE (Or 2 & average) STATE OF THE ONLY ONLY ONLY ONLY ONLY ONLY ONLY ONLY	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Pe predominant land use(s) Om riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back)
RIPARIAN WIDTH EROSION WIDE > 50m [4] SHRUB OR OLD FIELD [2] MODERATE [2] MODERATE 10-50m [3] HEAVY / SEVERE [1] VERY NARROW < 5m [1] FENCED PASTURE [1] NONE [0] OPEN PASTURE, ROWCROP [0] Comments SIPARIAN WIDTH FLOOD PLAIN QUAL FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD PENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] OPEN PASTURE, ROWCROP [0] OPEN PASTURE TORRENTIAL [-1] SLOW [1] OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] Pe predominant land use(s) Om riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum
RIPARIAN WIDTH EROSION WIDE > 50m [4] NONE / LITTLE [3] MODERATE 10-50m [3] MODERATE [2] NARROW 5-10m [2] RESIDENTIAL, PARK, NEW FIELD [2] POOL / SEVERE [1] NONE [0] POOL WIDTH > RIFFLE WIDTH [2] TORRENTIAL [-1] SLOW [1] NONE (0) POOL WIDTH > RIFFLE WIDTH [1] VERY FAST [1] INTERSTITE O.2-<0.4m [1] O.2-<0.4m [1] MODERATE [1] MODERATE [1] MODERATE [1] INTERSTITE Indicate for reach - pools and recomments Indicate	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Expredominant land use(s) Wining / Construction for riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12
RIPARIAN WIDTH EROSION WIDE > 50m [4] NONE / LITTLE [3] MODERATE [2] NONE RATE [2] NONE [0] WERY NARROW 5-10m [2] NONE [0] Comments FLOOD PLAIN QUAL FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD FENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] COMMENTS FOREST, SWAMP [3] RESIDENTIAL, PARK, NEW FIELD FENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] COMMENTS CHANNEL WIDTH CHANNEL WIDTH CHECK ONE (ONLY!) CHECK ONE (Or 2 & average) NONE [0] COMMENT VELOCITY CHECK ONE (OR 2 & average) OR CHECK ALL that apply OR CHECK ALL THAT APPLY TORRENTIAL [-1] NONE [1] OR CHECK ONE [1] NONE [1] NONE [1] INTERNIT MODERATE [1] COMMENTS NO pools present Indicate for functional riffles; Best areas must be large enough to support of riffle-obligate species: Check ONE (Or 2 & average).	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Pe predominant land use(s) Om riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12 Tion NO RIFFLE [metric=0]
River right looking downstream RIPARIAN WIDTH FLOOD PLAIN QUAL	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Per predominant land use(s) Om riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12 Tion NO RIFFLE [metric=0] NEMBEDDEDNESS
RIPARIAN WIDTH EROSION WIDE > 50m [4] NONE / LITTLE [3] MODERATE 10-50m [3] MODERATE [2] NARROW 5-10m [2] HEAVY / SEVERE [1] NONE [0] Comments SIPOOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH Check ONE (ONLY!) The figure of the figure of the figure of riffle-obligate species: Comments RIPARIAN WIDTH FLOOD PLAIN QUAL FOOL / FOREST, SWAMP [3] RESIDENTIAL, PARK, NEW FIELD	TIAL [-1] TENT [-2] 1] iffles. FLE / RUI	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Per predominant land use(s) Om riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12 Tion NO RIFFLE [metric=0] NEMBEDDEDNESS ONE [2] OW [1]
RIVER right looking downstream REROSION RESIDENTIAL, PARK, NEW FIELD RESIDENTIAL PARK, NEW FIELD RESIDENTIAL PARK, NEW FIELD RESIDENTIAL P	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Per predominant land use(s) Wining / Construction riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12 Tion NO RIFFLE [metric=0] NEMBEDDEDNESS ONE [2] OW [1] ODERATE [0] Riffle /
RIPARIAN WIDTH EROSION WIDE > 50m [4] NONE / LITTLE [3] MODERATE 10-50m [3] MODERATE [2] NARROW 5-10m [2] HEAVY / SEVERE [1] NONE [0] Comments Current C	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Per predominant land use(s) Om riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12 Tion NO RIFFLE [metric=0] NEMBEDDEDNESS ONE [2] OW [1]
RIVER right looking downstream REROSION RESIDENTIAL, PARK, NEW FIELD RESIDENTIAL PARK, NEW FIELD RESIDENTIAL PARK, NEW FIELD RESIDENTIAL P	ITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] WINING / CONSTRUCTION [0] Per predominant land use(s) Om riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12 Tion NO RIFFLE [metric=0] NEMBEDDEDNESS ONE [2] OW [1] ODERATE [0] XTENSIVE [-1] Riffle / Maximum 8

AJ SAMPLED REACH Check ALL that apply		Comment RE: Reach consistency/ OHWM: 12.3 feet x 1.2 feet	ls reach typical of steam?, Recreation	n/ Observed - Inferred, <i>Other</i>	r/ Sampling observations, Concerns, Acc	ess directions, etc.
METHOD BOAT WADE L. LINE OTHER DISTANCE	STAGE 1st -sample pass- 2nd HIGH UP NORMAL LOW DRY					
□ 0.5 Km □ 0.2 Km □ 0.15 Km □ 0.12 Km □ 0.12 Km □ OTHER	CLARITY 1stsample pass 2nc < 20 cm < 20-<40 cm ☐ 40-70 cm ☐ > 70 cm/ CTB ☐ SECCHI DEPTH	☐ INVASIVE MACROPHYTES ☐ EXCESS TURBIDITY ☐ DISCOLORATION ☐ FOAM / SCUM	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED	Circle some & COMMENT	E] ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION / SURFACE	F] MEASUREMENTS \overline{x} width 12.3 ft \overline{x} depth 1.2 ft max. depth \overline{x} bankfull width bankfull \overline{x} depth
CANOP > 85%- OP 55%-<85% 30%-<55% 10%-<30% <10%- CLO	EN gg 2nd cm	☐ NUISANCE ODOR ☐ SLUDGE DEPOSITS ☐ CSOs/SSOs/OUTFALLS	RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE		FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	W/D ratio bankfull max, depth floodprone x ² width entrench. ratio Legacy Tree:

Stream Drawing:





ChieFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

SITE NAME/LOCATION UNT 1 to Martin Ditch/Fort Wayne, Allen County, Indiana					
SITE NUMBER RIVER BASIN St Joseph River DRAINAGE AREA (mi²)	.01				
LENGTH OF STREAM REACH (ft) 191 LAT. 41.17580 LONG85.079992 RIVER CODE RIVER MILE					
DATE 09/27/22 SCORER C. Schuler COMMENTS Intermittent					
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	uctions				
STREAM CHANNEL	OVERY				
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes					
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE PERCENT	HHEI Metric				
□ □ BLDR SLABS [16 pts] 0% SILT [3 pt] 30%	Points				
BOULDER (>256 mm) [16 pts]	Substrate				
COBBLE (65-256 mm) [12 pts] 3% CLAY or HARDPAN [0 pt]	Max = 40				
GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] MUCK [0 pts] ARTIFICIAL [3 pts] 0% 20%	15				
Total of Percentages of 5.00% (A) Substrate Percentage 100% (B) Check	A + B				
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 9 TOTAL NUMBER OF SUBSTRATE TYPES: 6					
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Depth Max = 30				
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	WIAX = 30				
> 22.5 - 30 cm [30 pts]	25				
COMMENTS MAXIMUM POOL DEPTH (centimeters): 23					
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankfu ll Width				
> 3.0 m - 4.0 m (> 9 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30				
COMMENTSAVERAGE BANKFULL WIDTH (meters): 2.01	20				
This information must also be completed					
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY					
L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m Mature Forest, Wetland Conservation Tillage					
Moderate 5-10m Immature Forest, Shrub or Old Urban or Industrial					
Field	qu				
Narrow <5m Residential, Park, New Field	•				
III None III Econoed Pacture III Mining or Construction					
None Fenced Pasture Mining or Construction COMMENTS Forested corridor					
COMMENTS Forested corridor FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):					
COMMENTS Forested corridor FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Or channel, no water (Ephemeral)					

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach	n Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	Distance from Evaluated Stream
CWH Name: _	Distance from Evaluated Stream
EWH Name: _	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED A	REA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Cedarville NRCS Soil Map Page	ge:NRCS Soil Map Stream Order
County: Allen Township / City: St. Jose	oh/Fort Wayne
MISCELLANEOUS	
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 09/26/22	Quantity: 0.01
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 70%	
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. an	d attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.)	
Is the sampling reach representative of the stream (Y/N) If not, please explain:	
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
Performed? (Y/N): (If Yes, Record all observations. Voucher collections optional. ID number. Include appropriate field data sheets from the Prima	·
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates	Voucher? (Y/N) N Voucher? (Y/N) N
Comments Regarding Biology:	<u> </u>
<u>I</u>	

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):

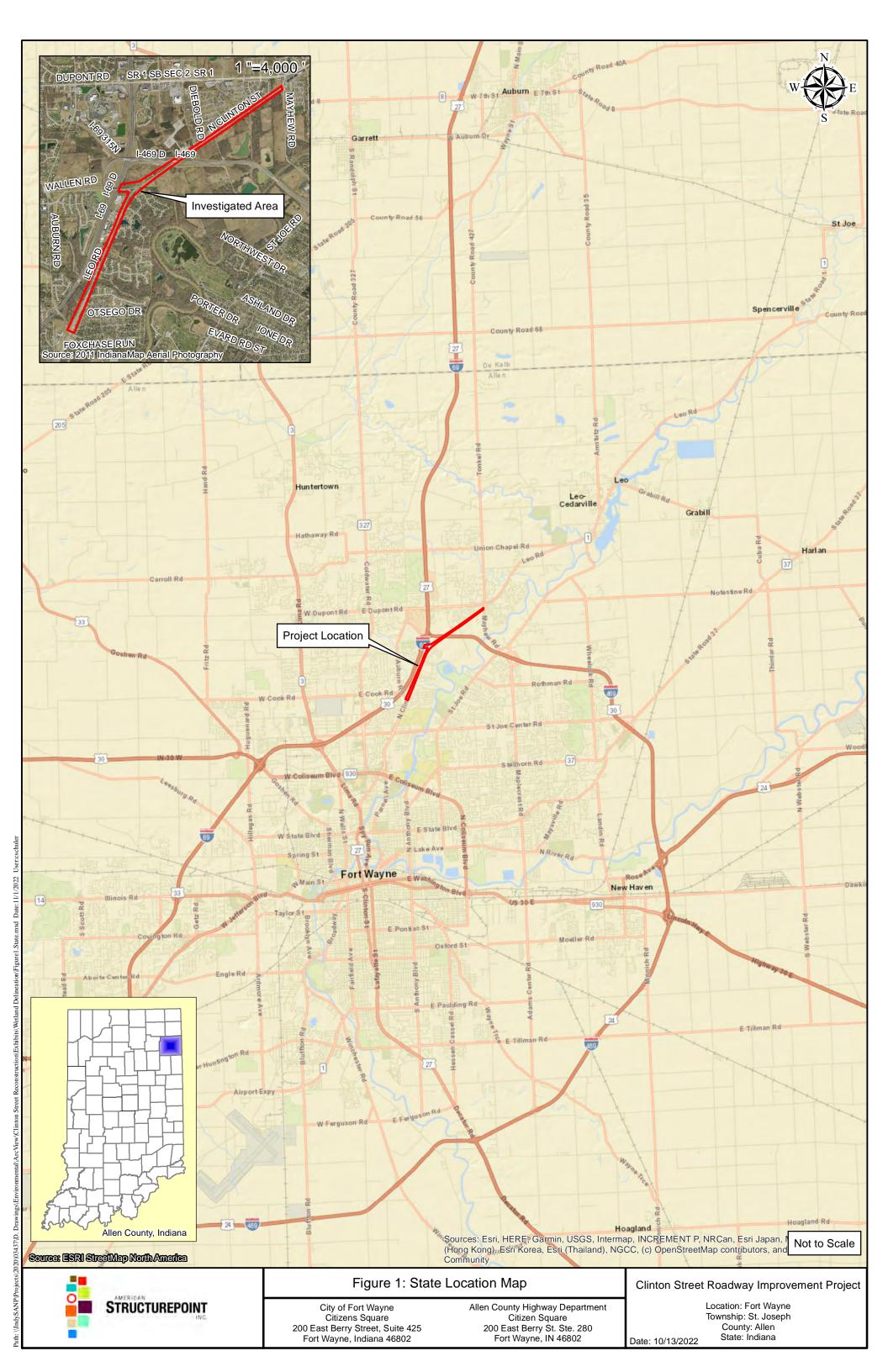
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location

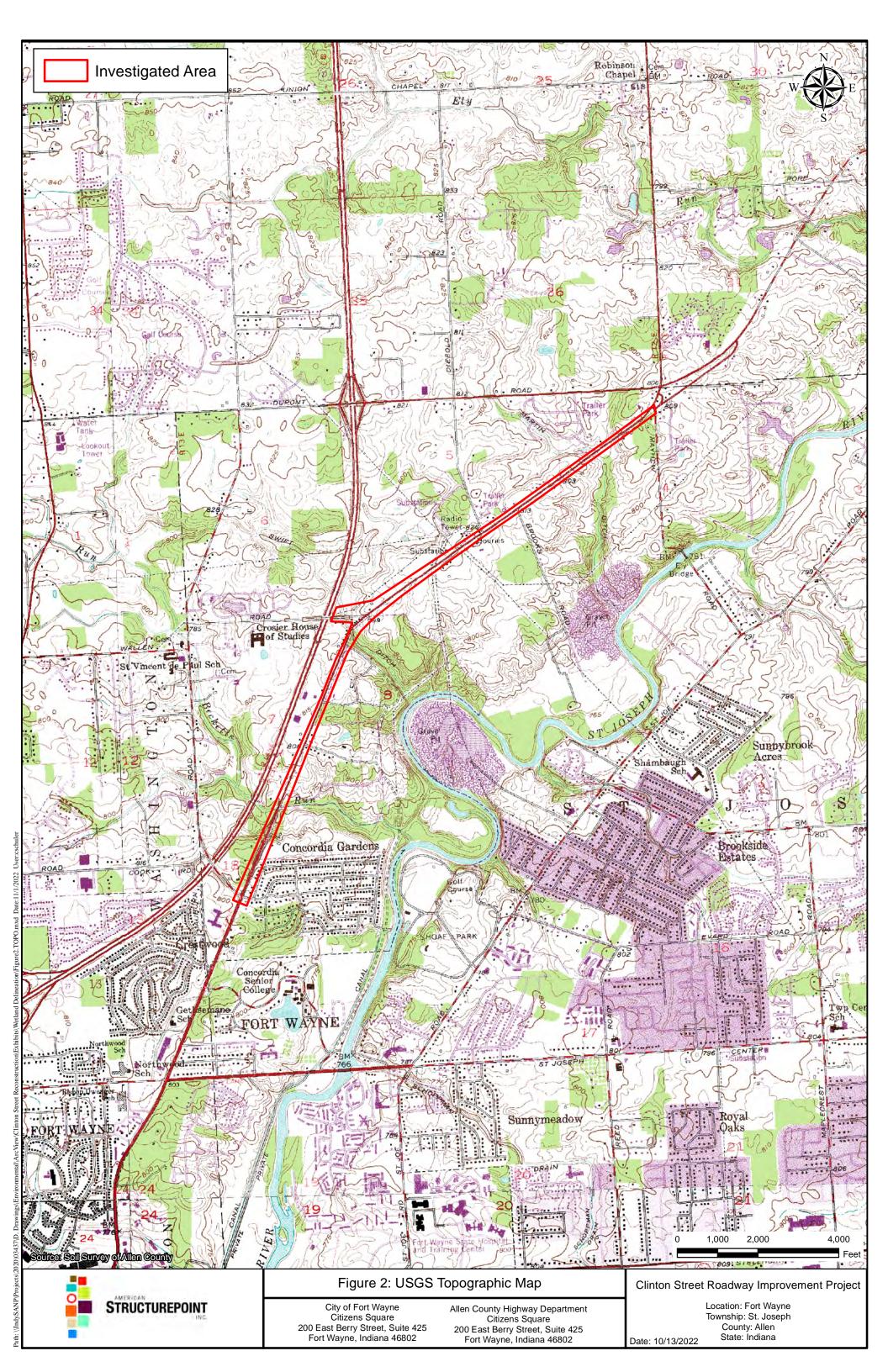




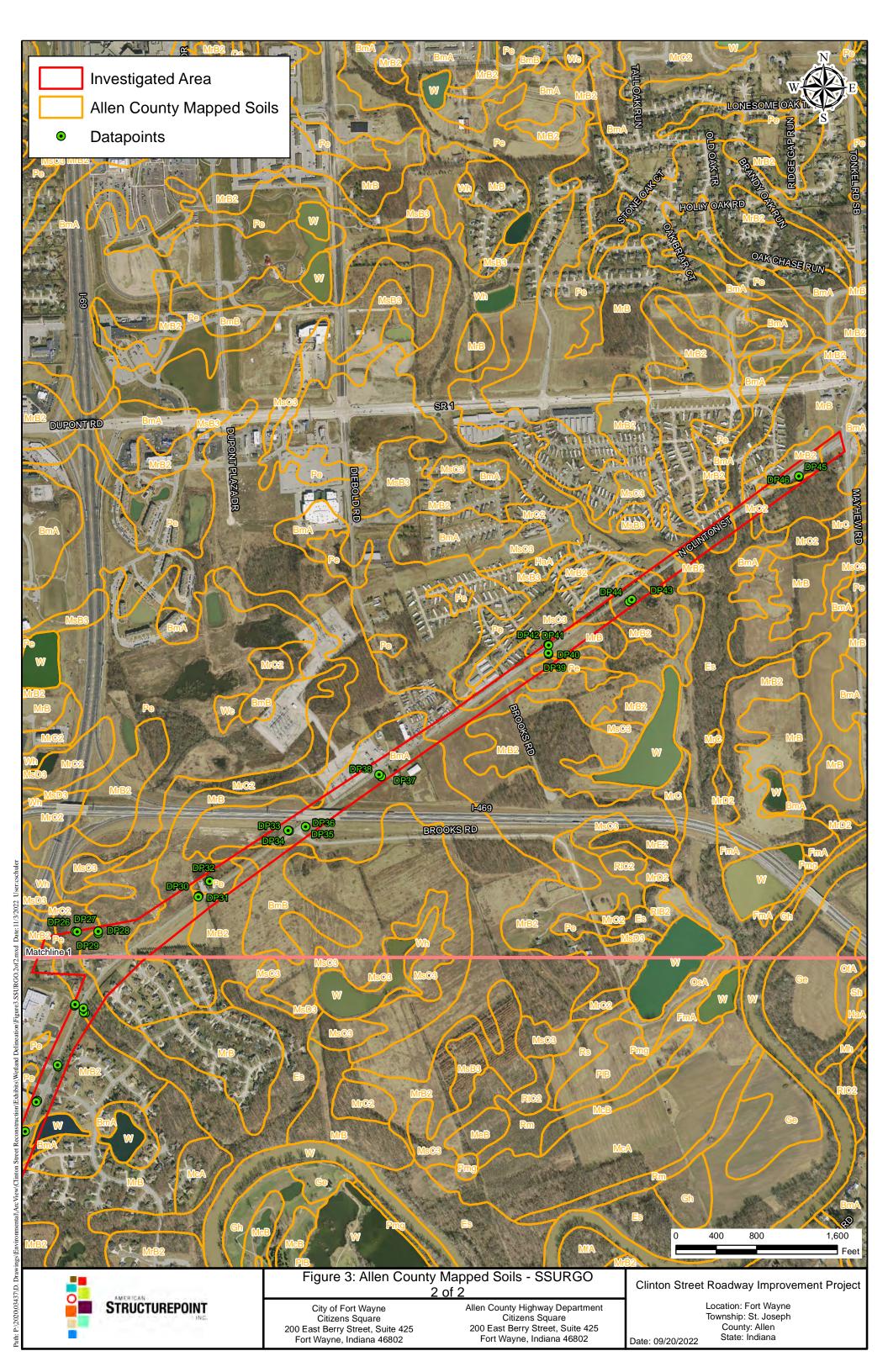
Appendix D - Mapping

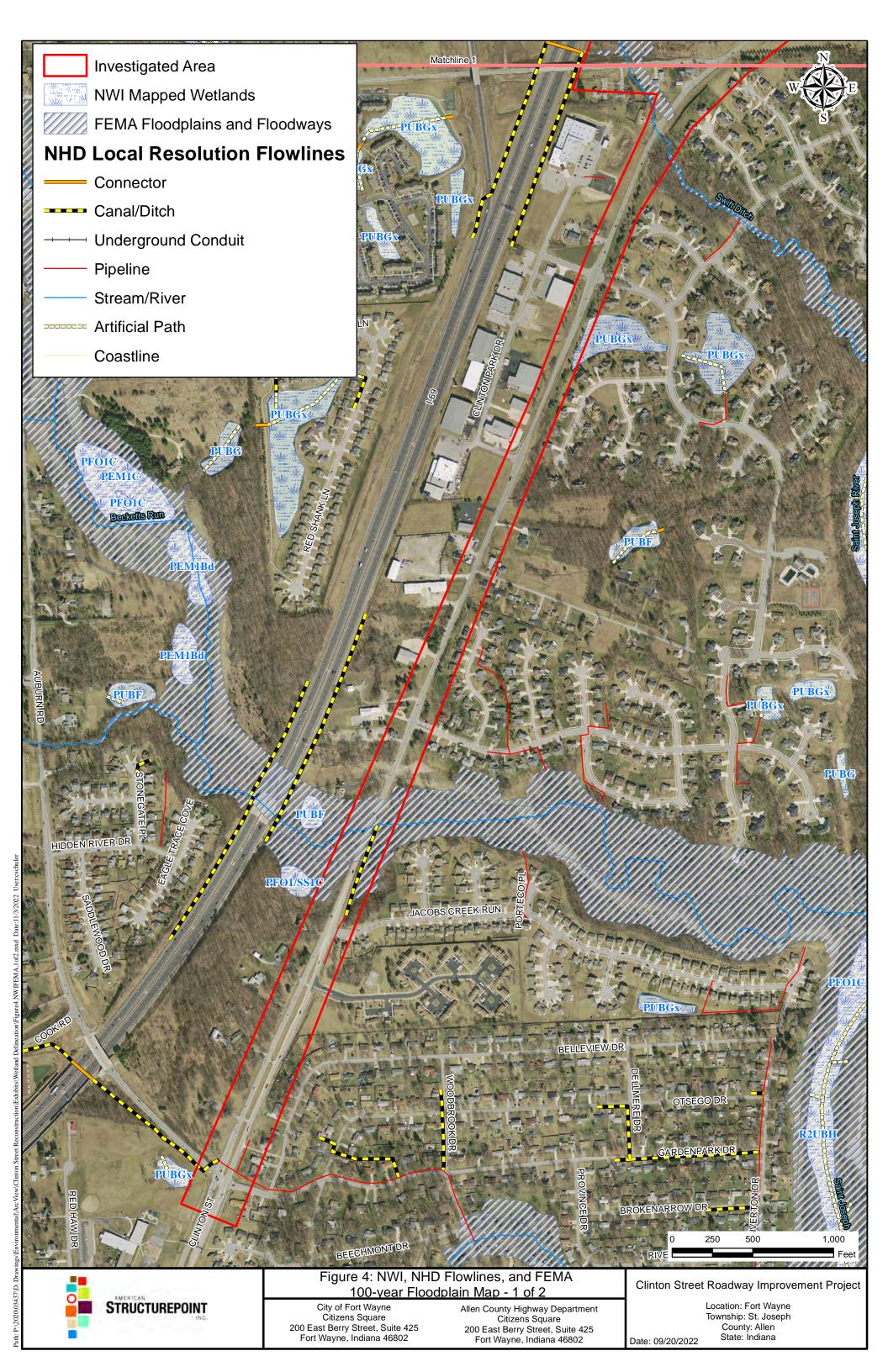
Figure 1 – State Location Map
Figure 2 – USGS Topographic Map
Figure 3 – Allen County Mapped Soils - SSURGO
Figure 4 – : NWI, NHD Flowline, and FEMA 100-year Floodplain Map
Figure 5 – 12-Digit HUC Map
Figure 6 – 2012 Aerial Photography Map
Figure 7 – Field Investigation and Photo Location Map

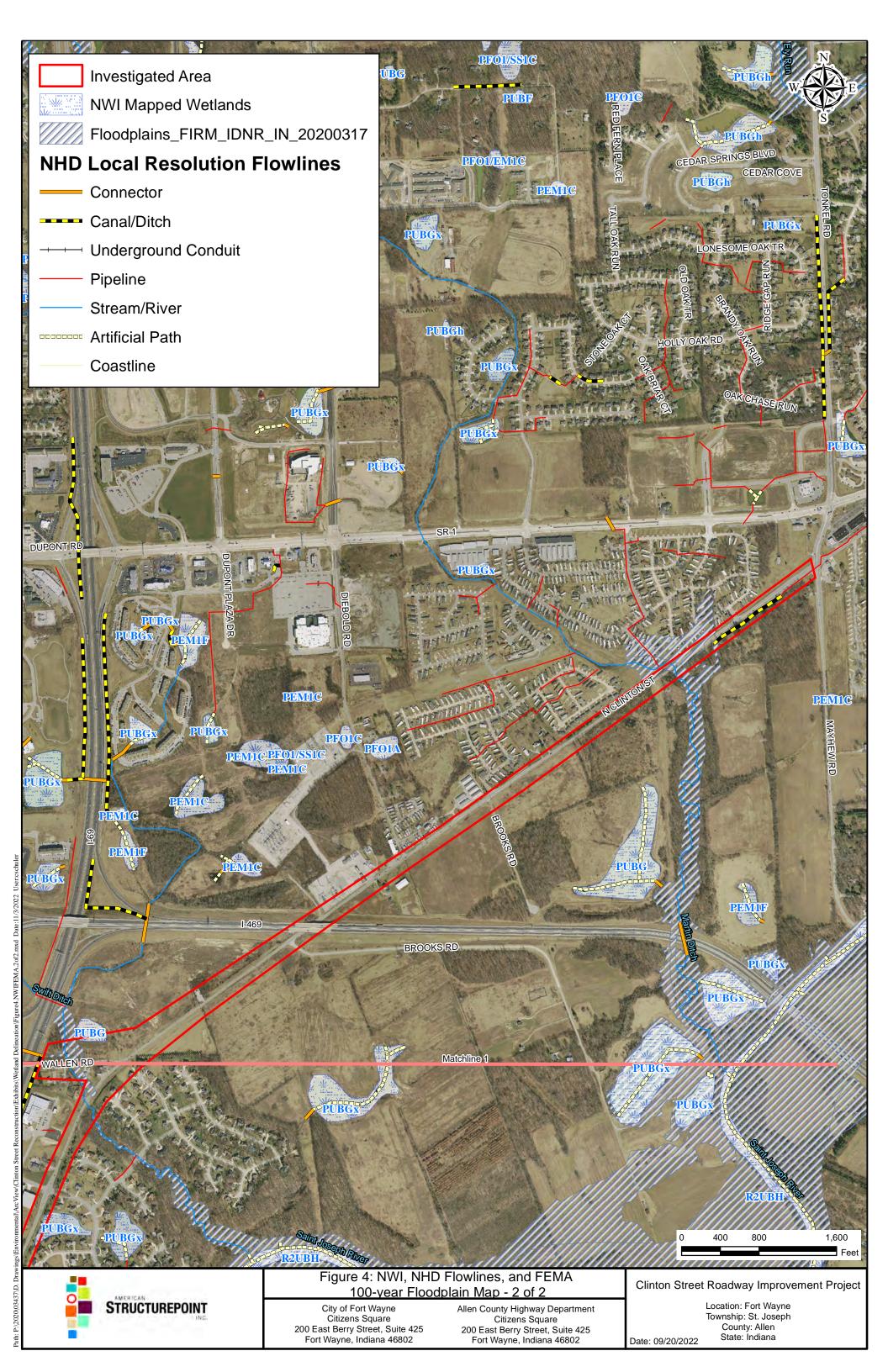


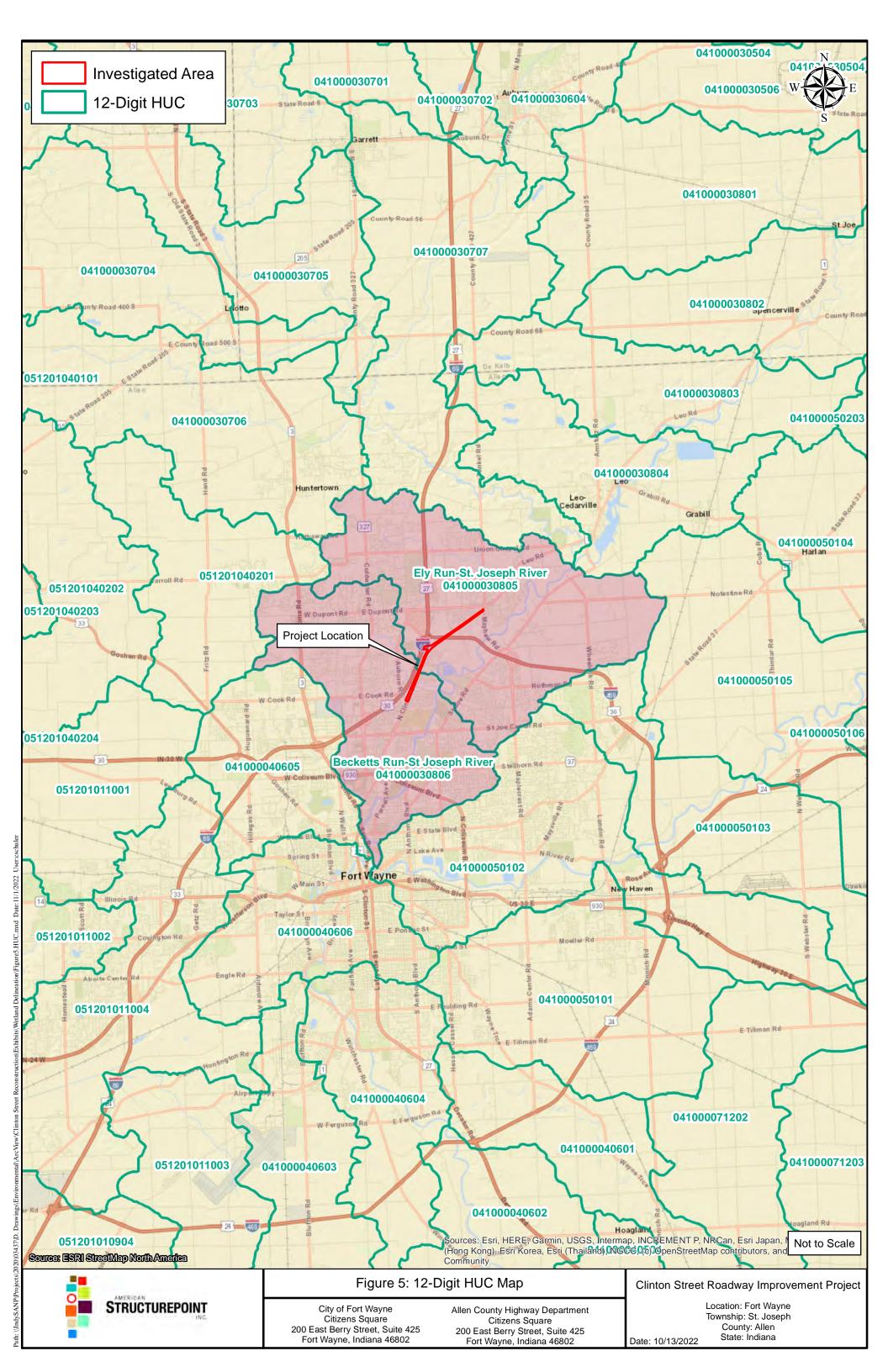


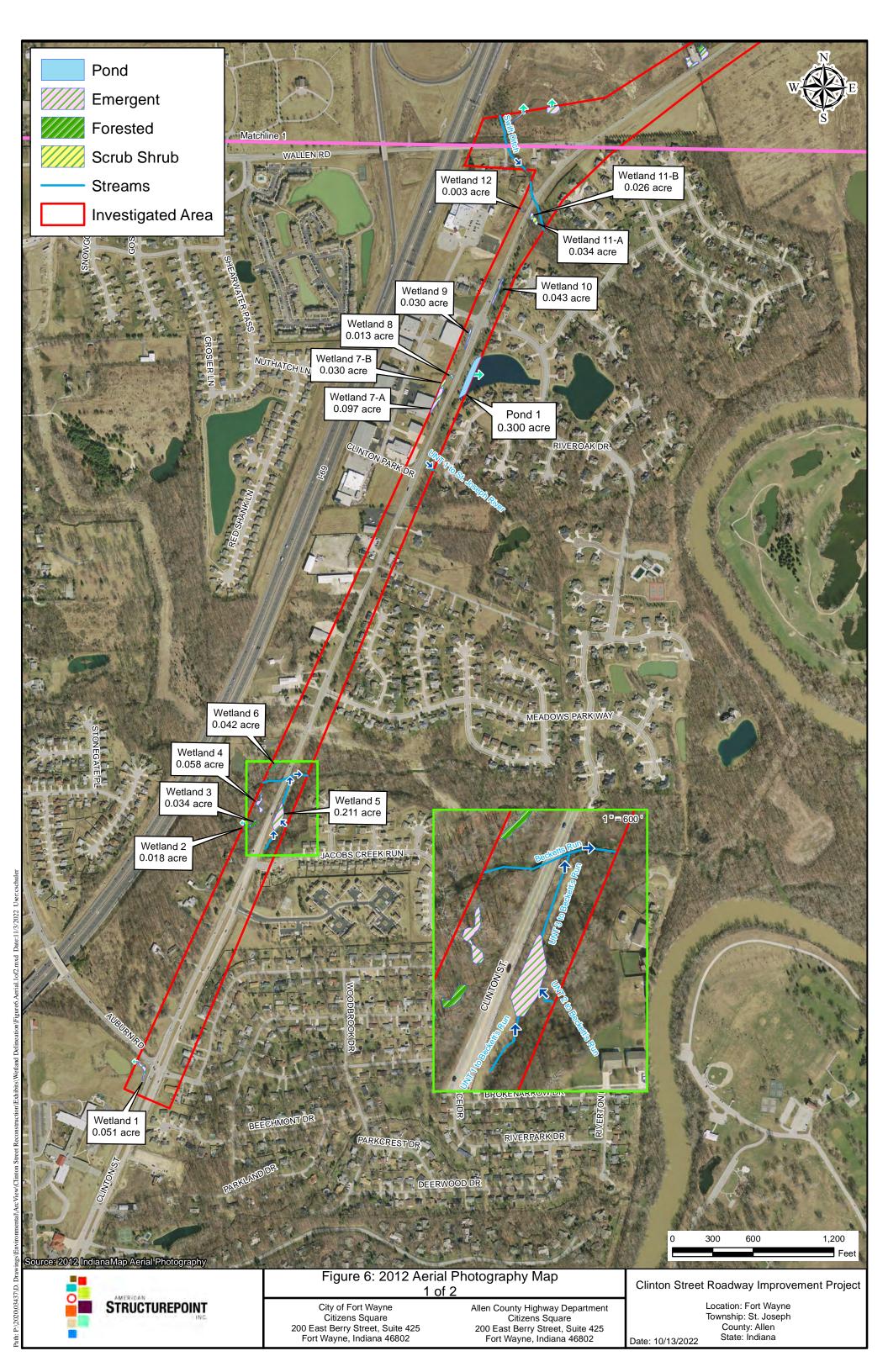


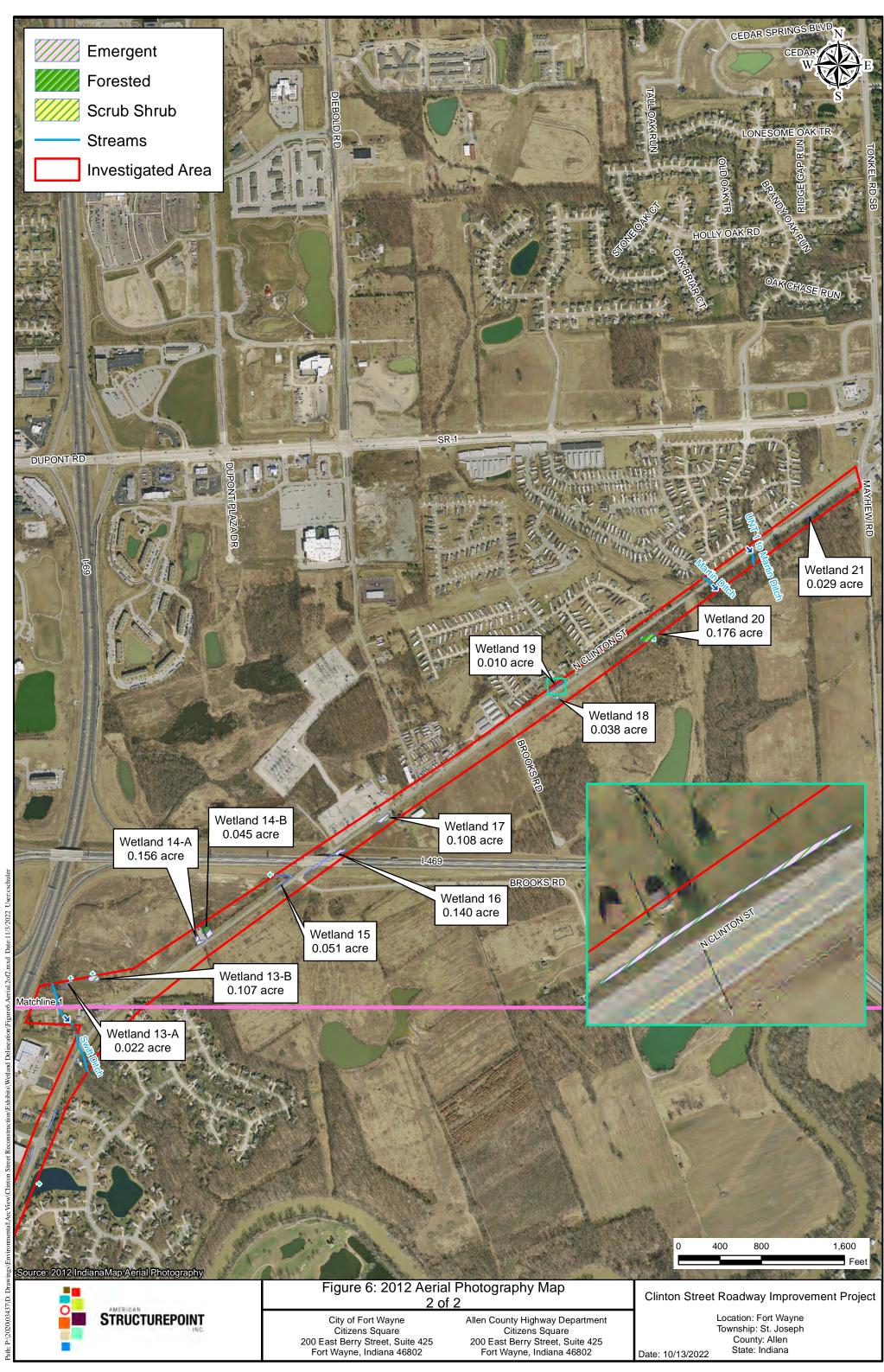


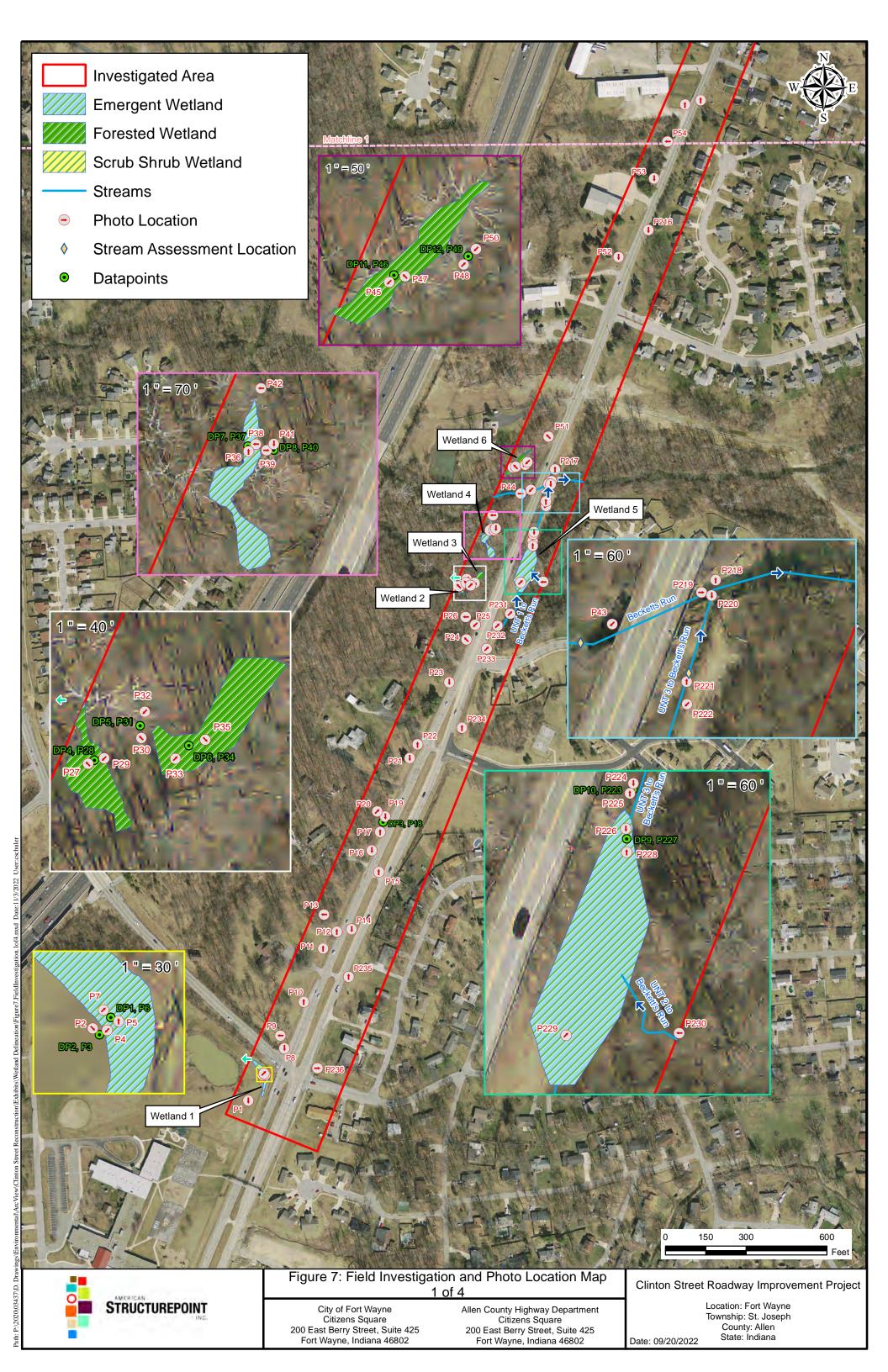


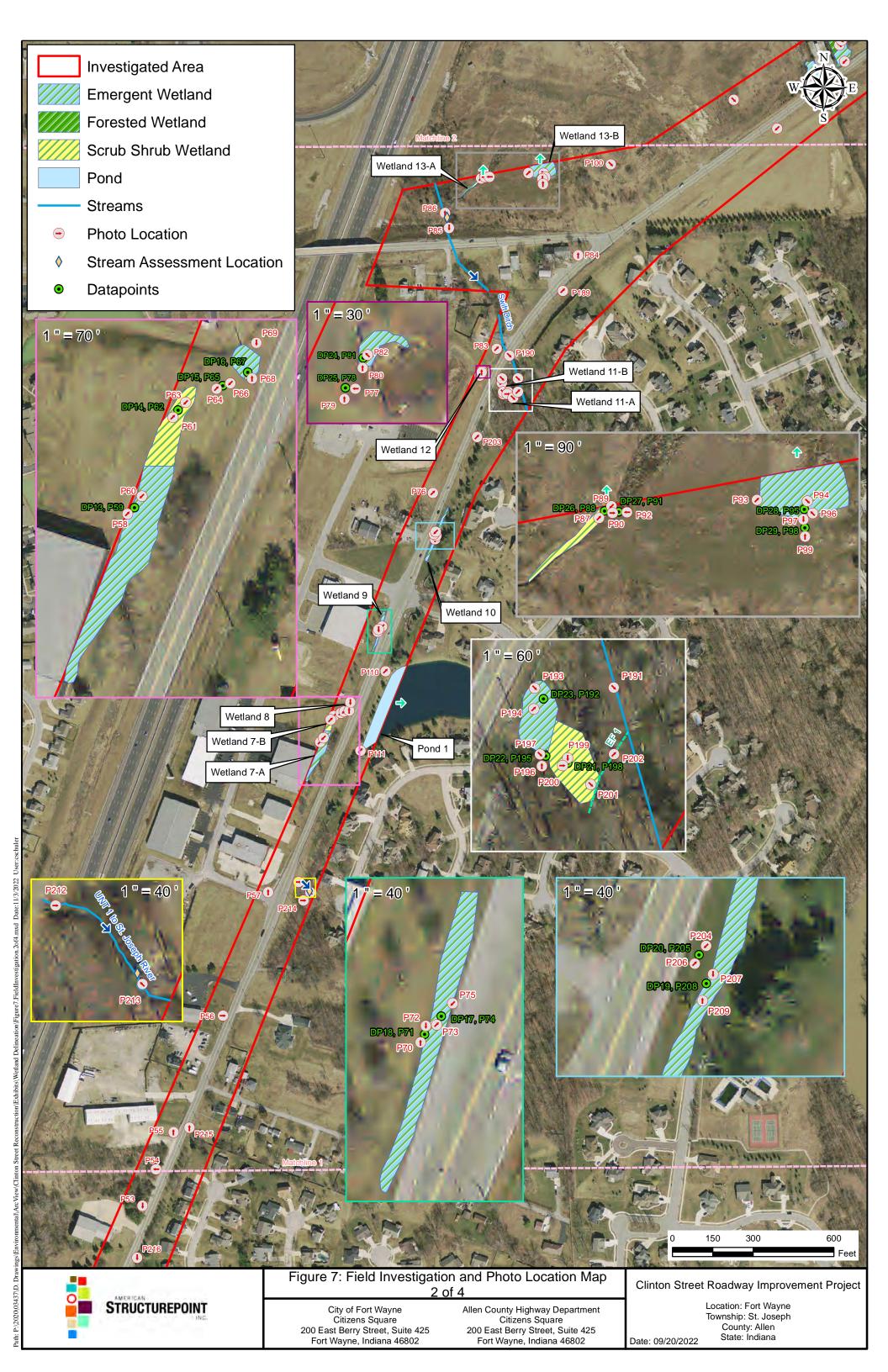


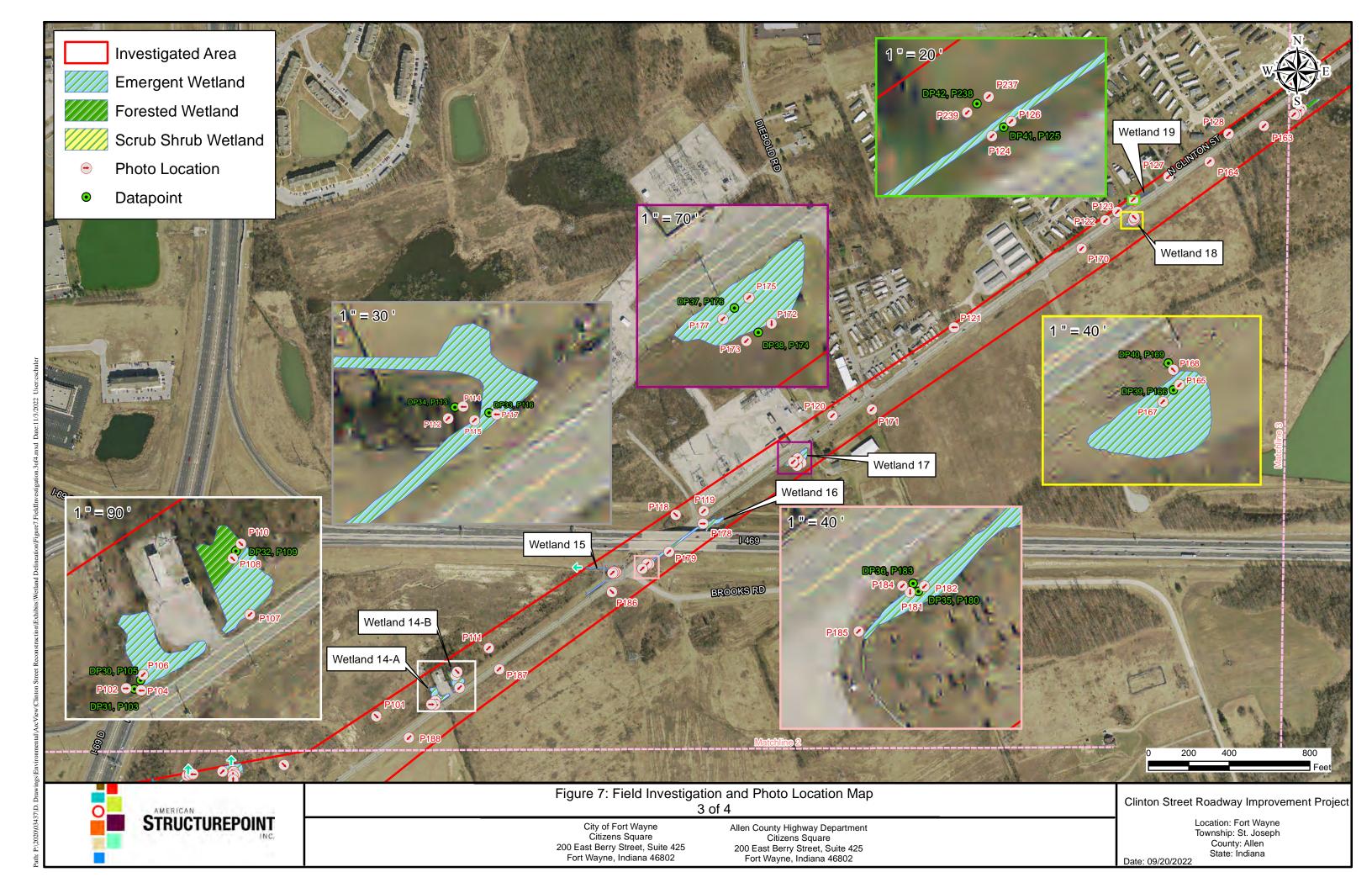


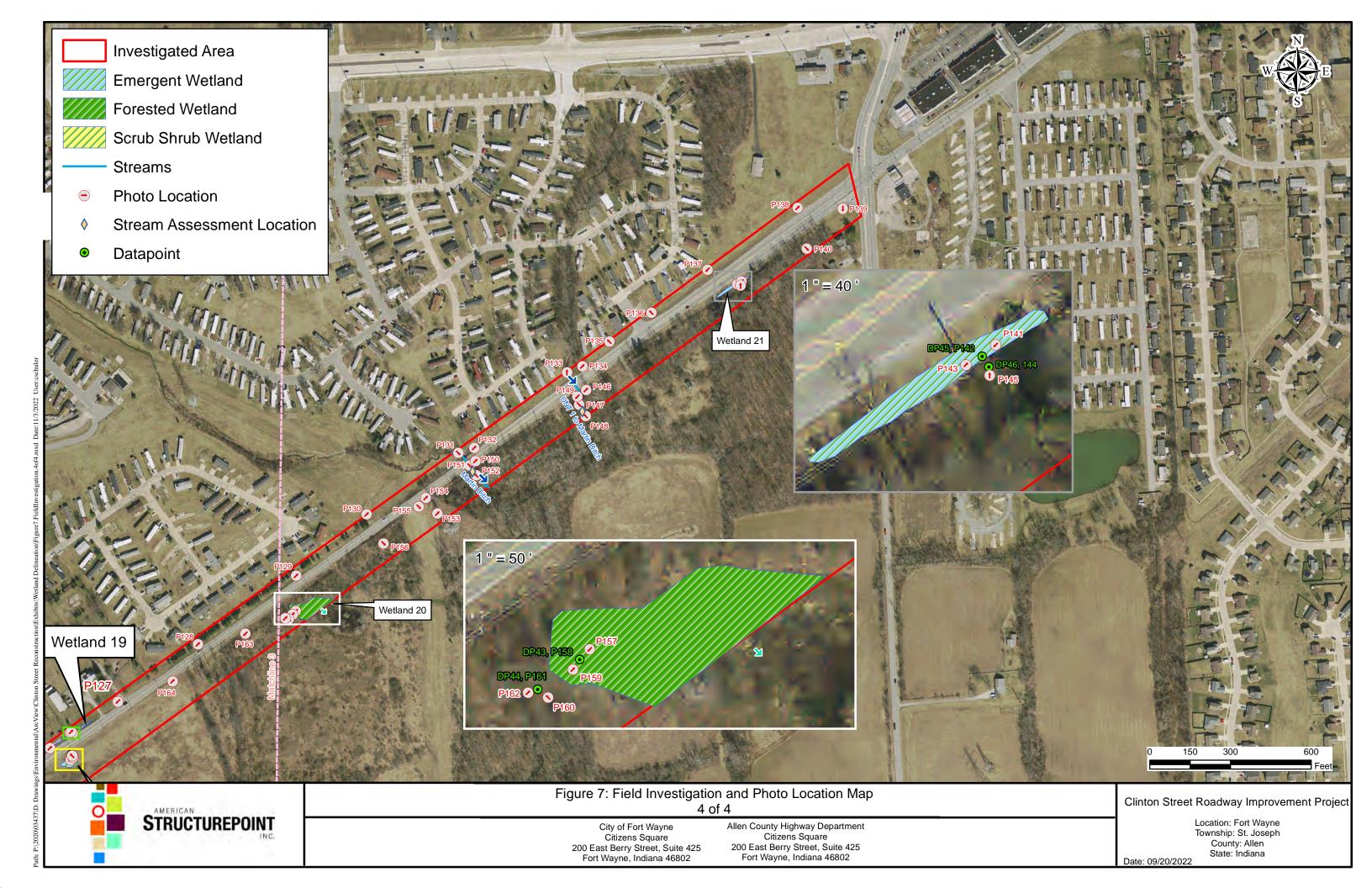














Appendix E - Photographs



Photo 1. Looking south at roadside culvert inlet and beyond the southern investigated area extent.



Photo 3. Looking at the DP 2 soil profile representative of the upland area surrounding Wetland 1.



Photo 2. Looking southeast at DP 2 and the upland area surrounding Wetland 1.



Photo 4. Looking southwest at DP 2 and the upland area surrounding Wetland 1.



Photo 5. Looking north at DP 1 and Wetland 1.



Photo 7. Looking northeast from DP 1 at Wetland 1.



Photo 6. Looking at the DP 1 soil profile representative of Wetland 1.



Photo 8. Looking south at roadside culvert inlet and herbaceous vegetation along the west side of North Clinton Street.



Photo 9. Looking west at grassy ROW and residential yard.



Photo 11. Looking north at culvert outlet and maintained grassy ROW.



Photo 10. Looking north at a roadside ditch and grassy ROW.



Photo 12. Looking north at beginning of forested area and herbaceous vegetation along grassy ROW.



Photo 13. Looking west at a forested area.



Photo 15. Looking north at herbaceous vegetation within a median.



Photo 14. Looking south at herbaceous vegetation within a median.



Photo 16. Looking south at maintained grassy ROW along the west side of North Clinton Street.



Photo 17. Looking north at non-wetland DP 3 herbaceous vegetation.



Photo 19. Looking south at non-wetland DP 3 herbaceous vegetation.



Photo 18. Looking at the DP 3 and the soil profile taken within a non-wetland area.



Photo 20. Looking northeast at forested area along the west side of North Clinton Street.



Photo 21. Looking south at roadside ditch and maintained grassy ROW.



Photo 23. Looking south at a roadside ditch and maintained grassy ROW along the west side of North Clinton Street.



Photo 22. Looking north at culvert outlet and maintained grassy ROW.



Photo 24. Looking northwest at concrete lined roadside ditch and herbaceous vegetation along the west side of North Clinton Street.

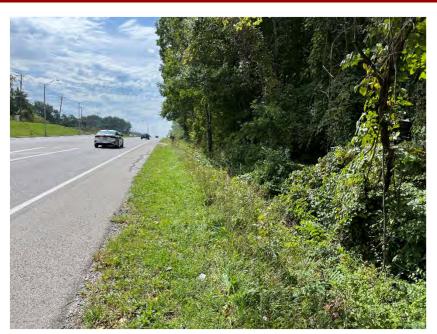


Photo 25. Looking southwest at maintained grassy ROW and along a forested area on the west side of North Clinton Street.



Photo 27. Looking northwest from DP 4 at Wetland 2.



Photo 26. Looking west into forested area along the west side on North Clinton Street.



Photo 28. Looking at the DP 4 soil profile representative of Wetland 2.



Photo 29. Looking southwest from DP 4 at Wetland 2.



Photo 31. Looking at the DP 5 soil profile representative of the upland area surrounding Wetland 2 and Wetland 3.



Photo 30. Looking northwest from DP 5 at upland area surrounding Wetland 2 and 3.



Photo 32. Looking southwest from DP 5 at upland area surrounding Wetland 2 and 3.



Photo 33. Looking northeast from DP 6 at Wetland 3.



Photo 35. Looking southeast from DP 6 at Wetland 3.



Photo 34. Looking at the DP 6 soil profile representative of Wetland 3.



Photo 36. Looking north from DP 7 at Wetland 4.



Photo 37. Looking at the DP 7 soil profile representative of Wetland 4.



Photo 39. Looking east from DP 8 at upland area surrounding Wetland 4.



Photo 38. Looking west from DP 7 at Wetland 4.



Photo 40. Looking at the DP 8 soil profile representative of the upland area surrounding Wetland 4.



Photo 41. Looking south from DP 8 at upland area surrounding Wetland 4.



Photo 43. Looking southwest at Beckett's Run and Stream Assessment 4.



Photo 42. Looking west into forested area along the west side of North Clinton Street.



Photo 44. Looking east at Beckett's Run from Stream Assessment 4.



Photo 45. Looking southwest from DP 11 at Wetland 6 herbaceous vegetation.



Photo 47. Looking northwest from DP 11 at Wetland 6.



Photo 46. Looking at the DP 11 soil profile representative of Wetland 6.



Photo 48. Looking northeast from DP 12 at upland area surrounding Wetland 6.



Photo 49. Looking at the DP 12 soil profile representative of the upland area surrounding Wetland 6.



Photo 51. Looking northwest at a forested area along the west side of North Clinton Street.



Photo 50. Looking southwest from DP 12 at upland area surrounding Wetland 6.



Photo 52. Looking south at maintained grassy ROW along the west side of North Clinton Street.



Photo 53. Looking south at a roadside ditch and driveway culvert inlet.



Photo 55. Looking north at a small erosional feature and grassy ROW.



Photo 54. Looking west at herbaceous vegetation in a forested area.



Photo 56. Looking east at small structure inlet with riprap and maintained grassy ROW.



Photo 57. Looking north at a riprap lined roadside ditch.



Photo 59. Looking at the DP 13 soil profile representative of Wetland 7-A.



Photo 58. Looking northeast from DP 13 at Wetland 7-A.



Photo 60. Looking southwest from DP 13 at Wetland 7-A.

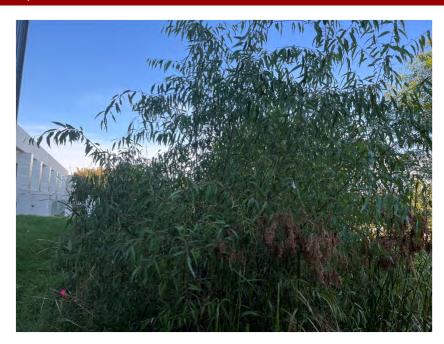


Photo 61. Looking northeast from DP 14 at Wetland 7-B.



Photo 63. Looking southwest from DP 14 at Wetland 7-B.



Photo 62. Looking at the DP 14 soil profile representative of Wetland 7- $\,$ B.



Photo 64. Looking northeast from DP 15 at upland area surrounding Wetlands 7-A, 7-B, and 8.



Photo 65. Looking at the DP 15 soil profile representative of the upland area surrounding Wetland 7-A, Wetland 7-B, and Wetland 8.



Photo 67. Looking at DP 16 and soil profile within Wetland 8.



Photo 66. Looking southwest from DP 15 at upland area surrounding Wetlands 7-A, 7-B and 8.



Photo 68. Looking northwest from DP 16 at Wetland 8.



Photo 69. Looking west at Wetland 8.



Photo 71. Looking at the DP 18 soil profile representative of the upland area surrounding Wetland 9.



Photo 70. Looking north at DP 18 and upland area surrounding Wetland 9.



Photo 72. Looking south at DP 18 and the upland area surrounding Wetland 9.



Photo 73. Looking northeast at DP 17 and Wetland 9.



Photo 75. Looking southwest at DP 17 and Wetland 9 vegetation.



Photo 74. Looking at the DP 17 soil profile representative of Wetland 9.



Photo 76. Looking northeast at maintained grassy ROW along the west side of North Clinton Street.



Photo 77. Looking west at DP 25 and the upland area surrounding Wetland 12.



Photo 79. Looking north at DP 25 and the upland area surrounding Wetland 12.



Photo 78. Looking at the DP 25 soil profile representative of the upland area surrounding Wetland 12.



Photo 80. Looking north from DP 24 at Wetland 12.



Photo 81. Looking at the DP 24 soil profile representative of Wetland 12.



Photo 83. Looking northeast at the small structure that conveys Swift Ditch under Clinton Street.



Photo 82. Looking northwest from DP 24 at Wetland 12.



Photo 84. Looking north across a maintained residential lawn towards the intersection of Clinton Street and Wallen Road.



Photo 85. Looking downstream (south) at Swift Ditch and the small structure that conveys the stream under Wallen Road.



Photo 87. Looking northeast from DP 26 at Wetland 13-A.



Photo 86. Looking upstream (north) from Stream Assessment 6 at Swift Ditch.



Photo 88. Looking at the DP 26 soil profile representative of Wetland 13- $\,$ A.



Photo 89. Looking southwest from DP 26 at Wetland 13-A.



Photo 91. Looking at the DP 27 soil profile representative of the upland area surrounding Wetland 13-A.



Photo 90. Looking east at DP 27 at upland area surrounding Wetland 13- $\,$ A.



Photo 92. Looking west from DP 27 at upland area surrounding Wetland 13-A.



Photo 93. Looking northeast at the edge of Wetland 13-B.



Photo 95. Looking at the DP 28 soil profile representative of Wetland 13-B.



Photo 94. Looking southeast from DP 28 at Wetland 13-B.



Photo 96. Looking northwest from DP 28 at Wetland 13-B.



Photo 97. Looking south from DP 29 at the upland area surrounding Wetland 13-B.



Photo 99. Looking north from DP 29 at the upland area surrounding Wetland 13-B.



Photo 98. Looking at the DP 29 soil profile representative of the upland area surrounding Wetland 13-B.



Photo 100. Looking southeast towards a forested area along the west side of North Clinton Street.



Photo 101. Looking southeast at a forested area along the west side of North Clinton Street.



Photo 103. Looking at the DP 31 soil profile representative of the upland area surrounding Wetland 14-A.



Photo 102. Looking east from DP 31 at the upland area surrounding Wetland 14-A.



Photo 104. Looking west from DP 31 at the upland area surrounding Wetland 14-A.



Photo 105. Looking at the DP 30 soil profile representative of Wetland 14-A.



Photo 107. Looking southwest at Wetland 14-A.



Photo 106. Looking southwest from DP 30 at Wetland 14-A.



Photo 108. Looking northwest from DP 32 at Wetland 14-B.



Photo 109. Looking at the DP 32 soil profile representative of Wetland 14-B.



Photo 111. Looking northeast at a forested area on the west side of North Clinton Street.



Photo 110. Looking southeast from DP 32 at Wetland 14-B



Photo 112. Looking northeast from DP 34 at the upland area surrounding Wetland 15.



Photo 113. Looking at the DP 34 soil profile representative of the upland area surrounding Wetland 15.



Photo 115. Looking northeast from DP 33 at Wetland 15.

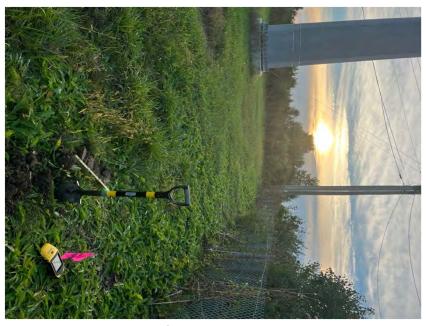


Photo 114. Looking west from DP 34 at the upland area surrounding Wetland 15.



Photo 116. Looking at the DP 33 the soil profile representative of Wetland 15.



Photo 117. Looking west from DP 33 at Wetland 15.



Photo 119. Looking northeast at maintained grassy ROW along the west side of North Clinton Street.



Photo 118. Looking southeast at a forested area on the west side of North Clinton Street.



Photo 120. Looking southwest at maintained grassy ROW.



Photo 121. Looking west at a forested area along the west side of North Clinton Street.



Photo 123. Looking northeast at Wetland 19.



Photo 122. Looking southwest at a roadside ditch and maintained grassy ROW.



Photo 124. Looking southwest from DP 41 at Wetland 19.



Photo 125. Looking at the DP 41 soil profile representative of Wetland 19.



Photo 127. Looking southwest at maintained grassy ROW along the west side of North Clinton Street.



Photo 126. Looking northeast from DP 41 at Wetland 19.



Photo 128. Looking northeast at maintained grassy ROW.



Photo 129. Looking northeast at maintained grassy ROW along the west side of North Clinton Street.



Photo 131. Looking southeast at Martin Ditch and the small structure that conveys the stream under Clinton Street.



Photo 130. Looking northeast at maintained grassy ROW along the west side of North Clinton Street.



Photo 132. Looking northeast at maintained grassy ROW and residential area along the west side of North Clinton Street.



Photo 133. Looking north at UNT 1 to Martin Ditch.



Photo 135. Looking northwest at a dry bottom retention pond currently under construction.



Photo 134. Looking northeast at maintained grassy ROW and bare ground along the west side of North Clinton Street.



Photo 136. Looking northwest at a dry bottom retention pond currently under construction.



Photo 137. Looking southwest at bare ground under construction and a dry bottom retention pond.



Photo 139. Looking south at maintained grassy ROW.



Photo 138. Looking northeast at maintained grassy ROW towards the northern extent of the project area.



Photo 140. Looking southeast at a forested area along the east side of North Clinton Street.



Photo 141. Looking southwest from DP 45 at Wetland 21.



Photo 143. Looking northeast from DP 45 at Wetland 21.



Photo 142. Looking at the DP 45 soil profile representative of Wetland 21.



Photo 144. Looking at the DP 46 soil profile representative of the upland area surrounding Wetland 21.



Photo 145. Looking north towards DP 46 and the upland area surrounding Wetland 21.



Photo 147. Looking southeast at UNT 1 to Martin Ditch.



Photo 146. Looking northeast at maintained grassy ROW and bare ground.



Photo 148. Looking upstream at UNT 1 to Martin Ditch from the Stream Assessment Location.



Photo 149. Looking southwest at maintained grassy ROW along the east side of North Clinton Street.



Photo 151. Looking southeast at Martin Ditch.



Photo 150. Looking northeast at herbaceous grassy ROW.



Photo 152. Looking upstream at Martin Ditch from the Stream Assessment Location.



Photo 153. Looking east into a floodplain associated with Martin Ditch.



Photo 155. Looking northeast at herbaceous grassy ROW.



Photo 154. Looking southeast into herbaceous vegetated investigated area along the east side of North Clinton Street.



Photo 156. Looking southeast into forested area along the east side of North Clinton Street.



Photo 157. Looking southwest at DP 43 and Wetland 20.



Photo 159. Looking northeast at DP 43 and Wetland 20.



Photo 158. Looking at the DP 43 soil profile representative of Wetland 20.



Photo 160. Looking northwest at DP 44 and the upland area surrounding Wetland 20.



Photo 161. Looking at DP 44 and soil profile representative of the upland area surrounding Wetland 20.



Photo 163. Looking southwest at maintained grassy ROW and forested area.



Photo 162. Looking northeast at DP 44 and upland vegetation surrounding Wetland 20.



Photo 164. Looking northeast at herbaceous grassy ROW.



Photo 165. Looking southwest at DP 39 and Wetland 18.



Photo 167. Looking northeast at DP 39 and Wetland 18.



Photo 166. Looking at the DP 39 soil profile representative of Wetland 18.



Photo 168. Looking northwest at DP 40 and upland area surrounding Wetland 18.



Photo 169. Looking at the DP 40 soil profile representative of the upland area surrounding Wetland 18.



Photo 171. Looking southwest at maintained grassy ROW.



Photo 170. Looking southwest at maintained grassy ROW.



Photo 172. Looking south from DP 38 at a gravel drive.

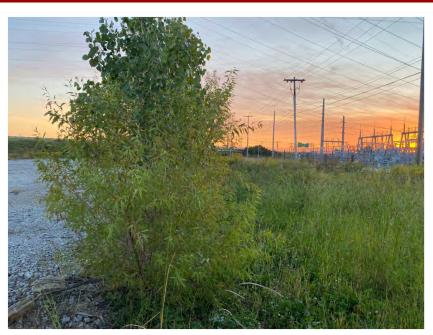


Photo 173. Looking southwest from DP 38 at the edge of Wetland 17 and the surrounding upland area.



Photo 175. Looking northeast from DP 37 at Wetland 17.



Photo 174. Looking at the DP 38 soil profile representative of the upland area surrounding Wetland 17.



Photo 176. Looking at the DP 37 soil profile representative of Wetland 17.



Photo 177. Looking southwest from DP 37 at Wetland 17.



Photo 179. Looking northeast at Wetland 16.



Photo 178. Looking east at Wetland 16.



Photo 180. Looking at the DP 35 soil profile representative of Wetland $16. \,$

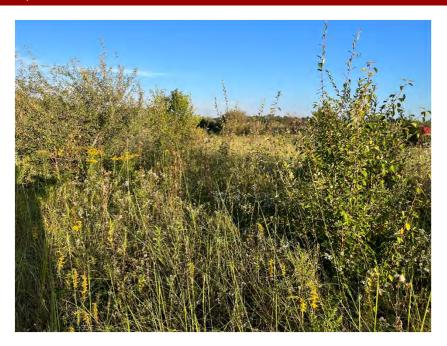


Photo 181. Looking south from DP 35 at Wetland 16.



Photo 183. Looking at the DP 36 soil profile representative of the upland area surrounding Wetland 16.



Photo 182. Looking southwest from DP 35 at Wetland 16.



Photo 184. Looking southwest from DP 36 at the upland area surrounding Wetland 16.



Photo 185. Looking northeast at the upland area surrounding Wetland 16.



Photo 187. Looking northeast at maintained grassy ROW.



Photo 186. Looking southeast at grassy ROW.



Photo 188. Looking southwest at maintained grassy ROW.



Photo 189. Looking northeast at maintained grassy ROW.



Photo 191. Looking southeast at Swift Ditch.



Photo 190. Looking southeast at Swift Ditch.



Photo 192. Looking at the DP 23 soil profile representative of Wetland 11-B.



Photo 193. Looking southeast from DP23 at Wetland 11-B.



Photo 195. Looking at the DP 22 soil profile representative of the upland area surrounding Wetland 11-A and 11-B.



Photo 194. Looking northeast from DP 23 at Wetland 11-B.



Photo 196. Looking north at DP 22 and the upland area surrounding Wetland 11-A and 11-B.



Photo 197. Looking southeast from DP 22 at the upland area surrounding Wetland 11-A and 11-B.



Photo 199. Looking south from DP 21 at Wetland 11-A.



Photo 198. Looking at the DP 21 soil profile representative of Wetland 11-A.



Photo 200. Looking east from DP 21 at Wetland 11-A.



Photo 201. Looking southeast at Erosional Feature 1 which drains Wetland 11-A.



Photo 203. Looking northeast at a riprap chute which drains to Swift Ditch.



Photo 202. Looking north at Erosional Feature 1 which drains Wetland 11-A.



Photo 204. Looking southwest from DP 20 at the upland area surrounding Wetland 10.



Photo 205. Looking at the DP 20 soil profile representative of the upland area surrounding Wetland 10.



Photo 207. Looking south from DP 19 at Wetland 10.



Photo 206. Looking northeast from DP 20 at the upland area surrounding Wetland 10.



Photo 208. Looking at the DP 19 soil profile representative of Wetland 10.



Photo 209. Looking north from DP 19 at Wetland 10.



Photo 211. Looking northeast at Pond 1.



Photo 210. Looking northeast at maintained grassy ROW.



Photo 212. Looking east at UNT 1 to St. Joseph River and herbaceous vegetation.



Photo 213. Looking northwest at UNT 1 to St. Joseph River from the Stream Assessment Point.



Photo 215. Looking north at herbaceous ROW along the east side of North Clinton Street.



Photo 214. Looking east into a forested area.



Photo 216. Looking south at maintained grassy ROW.

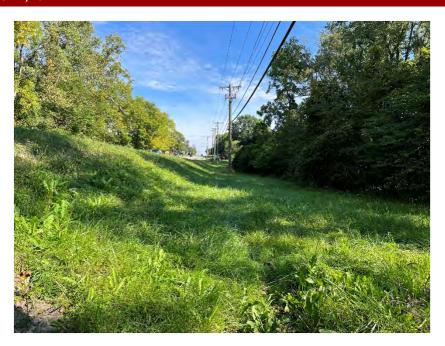


Photo 217. Looking north at grassy ROW.



Photo 219. Looking east at Beckett's Run.



Photo 218. Looking north at a riprap chute which drains into Beckett's Run.



Photo 220. Looking south at UNT 3 to Beckett's Run.



Photo 221. Looking north at UNT 3 to Beckett's Run from the Stream Assessment Location.



Photo 223. Looking at the DP 10 soil profile representative of the upland area surrounding Wetland 5.



Photo 222. Looking southeast at a forested area along the east side of North Clinton Street.



Photo 224. Looking south from DP 10 at the upland area surrounding Wetland 5.



Photo 225. Looking north from DP 10 at the upland area surrounding Wetland 5.



Photo 227. Looking at the DP 9 soil profile representative of Wetland 5.



Photo 226. Looking south from DP 9 at Wetland 5.



Photo 228. Looking north from DP 9 at Wetland 5.



Photo 229. Looking northeast at Wetland 5.



Photo 231. Looking northeast at UNT 1 to Beckett's Run from the Stream Assessment Location.



Photo 230. Looking northwest along UNT 2 to Beckett's Run from the Stream Assessment Location.



Photo 232. Looking northeast along a forested area and maintained grassy ROW.



Photo 233. Looking northeast at maintained grassy ROW.



Photo 235. Looking north at maintained grassy ROW.



Photo 234. Looking north at maintained grassy ROW.



Photo 236. Looking east at maintained grassy ROW.



Photo 237. Looking northeast from DP 42 at upland area surrounding Wetland 19.



Photo 239. Looking southwest from DP 42 at upland area surrounding Wetland 19.



Photo 238. Looking at the DP 42 soil profile representative of the upland area surrounding Wetland 19.