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Document Information

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Acronyms

APA Administrative Procedure Act

BF Bank Full

CFR Code of Federal Regulations

CWA Clean Water Act

DBH Diameter at Breast Height
DNP Division of Nature Preserves

DP Data Point

EPA U.S. Environmental Protection Agency

EPH Ephemeral (Stream Type)

ETR Endangered, Threatened, and Rare

FAC Facultative Plant

FACU Facultative Upland Plant FACW Facultative Wetland Plant

FEMA Federal Emergency Management Agency

FIRM Flood Insurance Rate Map

GIS Geographical Information System
HHEI Headwater Habitat Evaluation Index

IC Indiana Code

Acronyms (continued)

IDEM Indiana Department of Environmental Management

IDNR Indiana Department of Natural Resources

INT Intermittent (Stream Type)

MS4 Municipal Separate Storm Water Sewer Systems

NHD National Hydrography Dataset

NRCS U.S. Department of Agriculture Natural Resources Conservation Service

NWI National Wetland Inventory

NWP Nationwide Permit

NWPL National Wetland Plant List
OBL Obligate Wetland Plant
OHWM Ordinary High Water Mark
PEM Palustrine Emergent Wetland

PER Perennial (Stream Type)
PFO Palustrine Forested Wetland
PSS Palustrine Shrub Scrub Wetland
PUB Palustrine Unconsolidated Bottom

RGP Regional General Permit

SNE Significant Nexus

SWANCC Solid Waste Agency of Northern Cook County

TNW Traditional Navigable Water

TOB Top of Bank
UPL Upland Plant

USDA U.S. Department of Agriculture

USGS U.S. Geological Survey

USACE U.S. Army Corps of Engineers
USFWS U.S. Fish and Wildlife Service
WOTUS Waters of the United States
WQC Water Quality Certification

1 Introduction

Cardno now Stantec (Cardno) was contracted to perform a regulated waters delineation, including wetlands and streams, which are located at the Northeast Parcel of County Line and Arlington Study Area in Section 23, Township 14 North, Range 4 East, in Marion County, Indiana (Figure 1, Appendix A). Field work was performed on May 12, 2022. The total size of the Study Area was approximately 95.7 acres. The Study Area was an agricultural and prairie field. Four wetlands were identified within the Study Area.

This report identifies the jurisdictional status of the Study Area based on Cardno's best professional understanding and interpretation of the Corps of Engineers' Wetland Delineation Manual (Environmental Laboratory, 1987) and U.S. Army Corps of Engineers' (USACE) guidance documents and regulations. Jurisdictional determinations for other "waters of the U.S." were made based on definitions and guidance found in 33 CFR 328.3, USACE Regulatory Guidance Letters, and the wetland delineation manual. The USACE administers Section 404 of the Clean Water Act (CWA), which regulates the discharge of fill or dredged material into all "waters of the U.S.," and is the regulatory authority that must make the final determination as to the jurisdictional status of the Study Area.

2 Regulatory Definitions

2.1 Wetlands

Wetlands are a category of "waters of the U.S." for which a specific identification methodology has been developed. As described in detail in the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987), wetland boundaries are delineated using three criteria: hydrophytic vegetation, hydric soils, and wetland hydrology. In addition to the criteria defined in the 1987 Manual, the procedures described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* (Environmental Laboratory, 2010) were used to evaluate the Study Area for the presence of wetlands.

2.1.1 **Hydrophytic Vegetation**

On June 1, 2012, the National Wetland Plant List (NWPL), formerly called the National List of Plant Species that Occur in Wetlands (Reed 1988), went into effect after being released by the U.S. Army Corps of Engineers (USACE) as part of an interagency effort with the U.S. Fish and Wildlife Service (USFWS), the U.S. EPA, and the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) (Lichvar and Kartesz, 2009). This list is periodically updated, with the most recently published list dated 2018. The NWPL, along with the information implied by its wetland plant species status ratings, provides general botanical information about wetland plants and is used extensively in wetland delineation, restoration, and mitigation efforts. The NWPL consists of a comprehensive list of wetland plant species that occur within the United States along with their respective wetland indicator statuses by region. An indicator status reflects the likelihood that a particular plant species occurs in a wetland or upland (Lichvar et al. 2012). Definitions of the five indicator categories are presented below.

OBL (Obligate Wetland Plants): almost always occur in wetlands. With few exceptions, these plants (herbaceous or woody) are found in standing water or seasonally saturated soils (14 or more consecutive days) near the surface. These plants are of four types: submerged, floating, floating-leaved, and emergent.

FACW (Facultative Wetland Plants): usually occur in wetlands, but may occur in non-wetlands. These plants predominately occur with hydric soils, often in geomorphic settings where water saturates the soils or floods the soil surface at least seasonally.

<u>FAC</u> (Facultative Plants): occur in wetlands and non-wetlands. These plants can grow in hydric, mesic, or xeric habitats. The occurrence of these plants in different habitats represents responses to a variety of environmental variables other than just hydrology, such as shade tolerance, soil pH, and elevation, and they have a wide tolerance of soil moisture conditions.

FACU (Facultative Upland Plants): usually occur in non-wetlands, but may occur in wetlands. These plants predominately occur on drier or more mesic sites in geomorphic settings where water rarely saturates the soils or floods the soil surface seasonally.

<u>UPL (Upland Plants):</u> almost never occur in wetlands. These plants occupy mesic to xeric non-wetland habitats. They almost never occur in standing water or saturated soils. Typical growth forms include herbaceous, shrubs, woody vines, and trees.

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According to the USACE's Midwest Regional Supplement, plants that are rated as FAC, FACW, or OBL are classified as wetland plant species. The percentage of dominant wetland species in each of the four vegetation strata (tree, shrub/sapling, herbaceous, and woody vine) in the sample area determines the hydrophytic (wetland) status of the plant community. Dominant species are chosen independently from each stratum of the community. In general, dominants are the most abundant species that individually or collectively account for more than 50 percent of the total coverage of vegetation in the stratum, plus any other species that, by itself, accounts for at least 20 percent of the total.

For the purposes of determining dominant plant species, the four vegetation strata are defined. Trees consist of woody species 3 inches or greater in diameter at breast height (DBH). Shrubs and saplings are woody species that are over 1 meter in height and less than 3 inches DBH. Herbaceous species consist of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants less than 1 meter tall. Woody vines consist of vine species greater than 1 meter in height, such as wild grapes.

2.1.2 **Hydric Soils**

Hydric soils are defined as soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part. In general, hydric soils are flooded, ponded, or saturated for a week or more during the growing season when soil temperatures are above 32 degrees Fahrenheit. The anaerobic conditions created by repeated or prolonged saturation or flooding result in permanent changes in soil color and chemistry, which are used to differentiate hydric from non-hydric soils.

In this report, soil colors are described using the Munsell notation system. This method of describing soil color consists of separate notations for hue, value, and chroma that are combined in that order to form the color designation. The hue notation of a color indicates its relation to red, yellow, green, blue, and purple; the value notation indicates its lightness, and the chroma notation indicates its strength or departure from a neutral of the same lightness.

The symbol for hue consists of a number from 1 to 10, followed by the letter abbreviation of the color. Within each letter range, the hue becomes more yellow and less red as the numbers increase. The notation for value consists of numbers from 0 for absolute black, to 10 for absolute white. The notation for chroma consists of numbers beginning with /0 for neutral grays and increasing at equal intervals. A soil described as 10YR 3/1 soil is more gray than a soil designated 10YR 3/6.

2.1.3 Wetland Hydrology

Wetland hydrology is defined as the presence of water for a significant period of time at or near the surface (within the root zone) during the growing season. Wetland hydrology is present only seasonally in many cases, and is often inferred by indirect evidence. Hydrology is controlled by such factors as seasonal and long-term rainfall patterns, local geology and topography, soil type, local water table conditions, and drainage. Primary indicators of hydrology are inundation, soil saturation in the upper 12 inches of the soil, watermarks, sediment deposits, and drainage patterns. Secondary indicators such as oxidized root channels in the upper 12 inches of the soil, water-stained leaves, local soil survey data, and the FAC-neutral vegetation test are sometimes used to identify hydrology. A primary indicator or two or more secondary indicators are required to establish a positive indication of hydrology.

2.1.4 Wetland Definition Summary

In general, an area must meet all three criteria to be classified as a wetland. In certain problem areas such as seasonal wetlands, which are not wet at all times, or in recently disturbed (atypical) situations, areas may be considered a wetland if only two criteria are met. In special situations, an area that meets the wetland definition may not be within the USACE's jurisdiction due to a specific regulatory exemption.

2.2 Streams, Rivers, Watercourses & Jurisdictional Ditches

With non-tidal waters, in the absence of adjacent wetlands, the extent of the USACE's jurisdiction is defined by the OHWM. USACE regulations define the term "ordinary high water mark" for purposes of the CWA lateral jurisdiction at 33 CFR 328.3(e), which states:

The term ordinary high water mark means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

Waterways were classified by the following flow regimes:

- Perennial streams have a well-defined channel and typically have water flowing in them
 year-round. Most of the water comes from smaller upstream waters or groundwater while
 runoff from rainfall or other precipitation is supplemental. A perennial stream exhibits the
 typical biological, hydrological, and physical characteristics commonly associated with the
 continuous conveyance of water.
- Intermittent streams have a well-defined channel and flow during certain times of the year
 when smaller upstream waters are flowing and when groundwater provides enough water
 for stream flow. Runoff from rainfall or other precipitation supplements the flow of seasonal
 stream. During dry periods, seasonal streams may not have flowing surface water. An
 intermittent stream often lacks the biological and hydrological characteristics commonly
 associated with the conveyance of water.
- Ephemeral streams may or may not have a well-defined channel and flow only during and
 for a short duration after precipitation events in a typical year. Ephemeral stream beds are
 located above the water table year-round. Runoff from rainfall is the primary source of
 water for these streams. An ephemeral stream typically lacks the biological, hydrological,
 and physical characteristics commonly associated with the continuous or intermittent
 conveyance of water

Streams, rivers, watercourses, and ditches within the Study Area were evaluated using the above definitions and documented. Waterways that did exhibit an OHWM were recorded and evaluated using the Ohio EPA's Primary Headwater Habitat Evaluation Index (HHEI) or Qualitative Habitat Evaluation Index (QHEI) methodology. A combination of the HHEI, climate data, stream basin analysis, and the field conditions were utilized to determine the stream flow type. If applicable, the results of the stream assessments are presented in section 4.2. and the summary table; the datasheets are provided in Appendix D.

3 Background Information

3.1 Existing Maps

Several sources of information were consulted to identify potential wetlands and wetland soil units within the Study Area. These include the USFWS's National Wetland Inventory (NWI), the USGS's National Hydrography Dataset (NHD), and the NRCS Soil Survey for this county. These maps identify potential wetlands and wetland soil units within the Study Area. The NHD maps are used to identify low-lying areas, historical waterways, drainage patterns, and potential surface waters. The NHD maps are not field verified, and do not always account for human alteration such as ditching and tiling. The NWI maps were prepared from high altitude photography and in most cases were not field checked. Because of this, wetlands are sometimes erroneously identified, missed, or misidentified. Additionally, the criteria used in identifying these wetlands were different from those currently used by the USACE. The county soil maps, on the other hand, were developed from actual field investigations. However, they address only one of the three required wetland criteria and may reflect historical conditions rather than current site conditions. The resolution of the soil maps limits their accuracy as well. The mapping units are often generalized based on topography and many mapping units contain inclusions of other soil types for up to 15 percent of the area of the unit. The USACE does not accept the use of either of these maps to make wetland determinations. Additional data sources utilized to support analysis of streams and wetlands included the National Flood Hazard Layer, compiled by the Federal Emergency Management Agency (FEMA) and StreamStats, a spatial analysis tool provided by USGS.

3.1.1 National Wetland Inventory

The NWI map of the area (Figure 2) identified one wetland complex within the Study Area. The wetland was identified as a palustrine unconsolidated bottom wetland.

3.1.2 National Flood Hazard Layer

The FEMA floodplain digital mapping of the area (Figure 3) identified no areas of flood hazard within the Study Area.

3.1.3 **Stream Stats Basin Analysis**

No streams were identified within the Study (Figure 3).

3.1.4 National Hydrography Dataset

The NHD map of the area (Figure 4) identified four NHD Flowlines within the Study Area.

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3.1.5 **Soil Survey**

The NRCS Soil Survey of Marion County identified 6 soil series within the Study Area (Figure 4). The following table identifies the soil unit symbol, soil unit name, and whether or not the soil type contains components that meet the hydric soil criteria.

Table 3-1 Soil Types Within the Northeast Parcel of County Line and Arlington Study Area

Symbol	Description	Hydric
CrA	Crosby silt loam, fine-loamy subsoil,0 to 2 percent slopes	No
MmB2	mB2 Miami silt loam, 2 to 6 percent slopes, eroded	
ThrA	Treaty silty clay loam, 0 to 1 percent slopes	Yes
YbvA	Brookston silty clay loam- Urban land complex, 0 to 2 percent slopes	Yes
YcIA	Crosby silt loam, fine-loamy subsoil- Urban land complex, 0 to 2 percent slopes	No
YcmB2	Crosby-Urban land-Miami silt loams complex, 2 to 4 percent slopes, eroded	No

3.2 Climate Data

A "typical year" considers the normal periodic range of precipitation and other climactic variables for that waterbody. Factors utilized in determining if conditions meet the definition of "typical year" includes comparing precipitation, drought and other climatic factors from a period of interest (e.g., from the past season or year) with the normal range of those factors that would be expected, based on the past 30 years of data. The data below provides information on drought conditions at the time of the field survey and antecedent precipitation.

The May 10, 2022 US Drought Monitor map for Indiana indicated that the Study Area was not exhibiting drought conditions during the May 12, 2022 field survey (US Drought Monitor 2022).

The USACE's Antecedent Precipitation Tool (version 1.0.19) compiles information from weather stations within 30 miles of the Study Area to determine if conditions were dry, normal, or wet using antecedent precipitation conditions

Table 3-2	Calculation of Normal Weather Conditions	(WET)
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	(===)								
30 Days Ending	<30%	>30%	Actual	Condition	Condition Value	Month Weight Value	Condition Value X Month Weight		
2022-05-12	2.90"	5.20"	4.43"	Normal	2	3	6		
2022-04-12	3.15"	4.23"	3.85"	Normal	2	2	4		
2022-03-13	2.27"	3.49"	4.78"	Wet	3	1	3		
*6 to 9: drier than r 10 to 14: normal 15 to 18: wetter tha	condition (1) Dry (2) Norm (3) Wet								
						*Sum:	13		

No precipitation occurred during the field survey completed on May 12, 2022. A total of 0.49 inches of precipitation occurred the seven (7) days prior to the field survey and the most recent rain event (0.02 inches) occurred on May 7, 2022.

Conditions observed within the Study Area during the delineation completed on May 12, 2022 were considered to be normal for this time of year.

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4 Methodology and Description

4.1 Regulated Waters Investigation

The delineation of regulated waters within the Study Area was based on the methodology described 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* (Environmental Laboratory, 2010) as required by current USACE policy.

Prior to the field work, the background information was reviewed to establish the probability and potential location of wetlands and regulated waters within the Study Area. Next, a general reconnaissance of the Study Area was conducted to determine site conditions. The site was then walked with the specific intent of determining wetland and jurisdictional stream boundaries. Data stations were established at locations within and near the wetland areas to document soil characteristics, evidence of hydrology and dominant vegetation. Note that no attempt was made to examine a full soil profile to confirm any soil series designations; however, when possible, soils were examined to a depth of at least 16 inches to assess soil characteristics and site hydrology. Complete descriptions of typical soil series can be found in the soil survey for this county.

4.1.1 <u>Site Photographs</u>

Photographs of the site are located in Appendix B. These photographs are the visual documentation of site conditions at the time of inspection. The photographs are intended to provide representative visual samples of any wetlands or other special features identified within the Study Area.

4.1.2 <u>Delineation Data Sheets</u>

Where stations represent a wetland boundary point they are typically presented as paired data points, one each documenting the wetland and upland sides of the wetland boundary. The routine wetland delineation data sheets used in the jurisdictional delineation process are located in Appendix C. These forms are the written documentation of how representative sample stations met or did not meet each of the wetland criteria. For plant species included on the National Wetlands Plant List, nomenclature will follow their lead. For all other plants not listed in the NWPL, nomenclature will follow the USDA's Plants Database. Data point locations are shown on Figure 5.

4.1.3 Stream Data Sheets

Waterways that exhibited an OHWM were recorded and evaluated using the Ohio EPA's Primary Headwater Habitat Evaluation Index (HHEI) or Qualitative Habitat Evaluation Index (QHEI) methodology. A combination of the HHEI, climate data, stream basin analysis, and the field conditions were utilized to determine the stream flow type. If applicable, the results of the stream assessments are presented in section 4.2. and the summary table; the datasheets are provided in Appendix D.

4.2 Technical Descriptions

Complete field data sheets from the site investigation are located in Appendix C. The site is located in Marion County, Indiana, DIRECTIONS (Figure 1). The area investigated was approximately 95.7 acres. The Study Area was an agricultural and prairie field.

4.2.1 <u>Data Point and Wetland Descriptions</u>

Wetland 01 (0.08 Acres)

This wetland was an emergent wetland located in an agricultural field. This wetland appears to consist entirely of a depressional area located within a farm field. No surface water connection with any "waters of the United States" was observed. This wetland should be considered a "waters of the state".

Wetland Data Point

Data Point 01 (dp01)

Dominant vegetation in the vicinity of dp01 included Tufted Meadow-Foxtail (*Alopecurus carolinianus*, FACW), and Neckweed (*Veronica peregrina*, FACW). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 5/1 with concentrations in the matrix at 2 percent, and a texture of Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and met the Depleted Matrix (F3) hydric soil criteria. Primary indicators of hydrology included Surface Water (A1), Saturation (A3), and secondary indicators of hydrology observed included Surface Soil Cracks (B6), Geomorphic Position (D2), and the FAC-Neutral Test (D5). This data point qualified as a wetland.

Upland Data Point

Data Point 02 (dp02)

Dominant vegetation in the vicinity of dp02 included Shepherd's-Purse (*Capsella bursa-pastoris*, FACU), Field Pennycress (*Thlaspi arvense*, FACU), and Common Chickweed (*Stellaria media*, FACU). In addition, non-dominant vegetation observed included Eastern Daisy Fleabane (*Erigeron annuus*, FACU), Spiny-Leaf Sow-Thistle (*Sonchus asper*, FACU), and Crow Garlic (*Allium vineale*, FACU). The plants at this data point did not qualify as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 4/3 with a texture of Silt Loam. The soil at the data point was mapped as Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes (CrA), and did not meet any hydric soil criteria. No indicators of hydrology were observed. This data point did not meet wetland criteria.

Upland Data Point

Data Point 03 (dp03)

Dominant vegetation in the vicinity of dp03 included Cress-Leaf Groundsel (*Packera glabella*, FACW), and Curly Dock (*Rumex crispus*, FAC). In addition, non-dominant vegetation observed included Neckweed (FACW), and Tufted Meadow-Foxtail (FACW). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 4/1 with a texture of Silt Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to

1 percent slopes (ThrA), and did not meet any hydric soil criteria. Primary indicators of hydrology included Saturation (A3), and secondary indicators of hydrology observed included Geomorphic Position (D2), and the FAC-Neutral Test (D5). This data point did not meet wetland criteria.

Wetland 02 (0.69 Acres)

This wetland was an emergent wetland located in an agricultural field. No surface water connection with any "waters of the United States" was observed. This wetland should be considered a "waters of the state".

Wetland Data Point

Data Point 04 (dp04)

Dominant vegetation in the vicinity of dp04 included Tiny Mousetail (*Myosurus minimus*, FACW), Tufted Meadow-Foxtail (FACW), and Neckweed (FACW). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 8 inches had a matrix soil color of 10YR 4/2 with a texture of Clay Loam. The soil from 8 to 16 inches had a matrix soil color of 10YR 5/1 with concentrations in the matrix at 2 percent, and a texture of Clay Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and met the Depleted Matrix (F3) hydric soil criteria. Secondary indicators of hydrology observed included Surface Soil Cracks (B6), Geomorphic Position (D2), and the FAC-Neutral Test (D5). This data point qualified as a wetland.

Wetland 03 (3.69 Total Acres, 2.45 acres Emergent & 1.24 acres Forested)

This wetland was an emergent and forested wetland, with the emergent portion located in an agricultural field and the forested portion located in an adjacent woodlot. The wetland appears to drain to the south or west generally, but there was no observed pathway to a downstream "water of the US" identified during field activities. Because there was no identified hydrologic connection to another "waters of the U.S.." this feature should not be considered a "waters of the U.S."

Wetland Data Point

Data Point 05 (dp05)

Dominant vegetation in the vicinity of dp05 included Tufted Meadow-Foxtail (FACW), and Neckweed (FACW). In addition, non-dominant vegetation observed included Tiny Mousetail (FACW), Cursed Buttercup (*Ranunculus sceleratus*, OBL), and Blunt Spike-Rush (*Eleocharis obtusa*, OBL). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 5/1 with concentrations in the matrix at 3 percent, and a texture of Clay Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and met the Depleted Matrix (F3) hydric soil criteria. Primary indicators of hydrology included Surface Water (A1), Saturation (A3), Algal Mat or Crust (B4), and secondary indicators of hydrology observed included Geomorphic Position (D2), and the FAC-Neutral Test (D5). This data point qualified as a wetland.

Upland Data Point

Data Point 06 (dp06)

Dominant vegetation in the vicinity of dp06 included Tufted Meadow-Foxtail (FACW), and Neckweed (FACW). In addition, non-dominant vegetation observed included Kidney-Leaf

Buttercup (*Ranunculus abortivus*, FACW), Shepherd's-Purse (FACU), and Canadian Horseweed (*Erigeron canadensis*, FACU). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 5/1 with a texture of Silt Loam. The soil at the data point was mapped as Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes (CrA), and met the Depleted Matrix (F3) hydric soil criteria. Only the secondary indicator the FAC-Neutral Test (D5) was observed. This data point did not meet wetland criteria.

Wetland Data Point

Data Point 07 (dp07)

Dominant vegetation in the vicinity of dp07 included Rough-Leaf Dogwood (*Cornus drummondii*, FAC), and Eastern Woodland Sedge (*Carex blanda*, FAC). In addition, non-dominant vegetation observed included Spring Avens (*Geum vernum*, FACU), Harvestlice (*Agrimonia parviflora*, FACW), Hooded Blue Violet (*Viola sororia*, FAC), and Eastern Poison Ivy (*Toxicodendron radicans*, FAC). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 4/1 with concentrations in the matrix at 3 percent, and a texture of Silt Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and met the Depleted Matrix (F3) hydric soil criteria. The primary indicators of hydrology observed were Surface Water (A1), Saturation (A3), and the secondary indicator of hydrology was Geomorphic Position (D2). This data point qualified as a wetland.

Upland Data Point

Data Point 08 (dp08)

Dominant vegetation in the vicinity of dp08 included Common Hackberry (*Celtis occidentalis*, FAC), Amur honeysuckle (*Lonicera maackii*, UPL) in multiple strata, and Eastern Woodland Sedge (FAC). In addition, non-dominant vegetation observed included Shag-Bark Hickory (*Carya ovata*, FACU), Rough-Leaf Dogwood (FAC), Common Hackberry (FAC), Spring Avens (FACU), and Eastern Poison Ivy (FAC). The plants at this data point did not qualify as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 4/2 with a texture of Silt Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and did not meet any hydric soil criteria. No indicators of hydrology were observed. This data point did not meet wetland criteria.

Wetland Data Point

Data Point 09 (dp09)

Dominant vegetation in the vicinity of dp09 included Cursed Buttercup (OBL), and Blunt Spike-Rush (OBL). In addition, non-dominant vegetation observed included Tufted Meadow-Foxtail (FACW), and Neckweed (FACW). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 5/1 with concentrations in the matrix at 4 percent, and a texture of Clay Loam. The soil at the data point was mapped as Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes (CrA), and met the Depleted Matrix (F3) hydric soil criteria. The primary indicators of hydrology observed were Surface Water (A1), High Water Table (A2), Saturation (A3), Algal Mat or Crust (B4), and the secondary indicator of hydrology was the FAC-Neutral Test (D5). This data point qualified as a wetland.

Wetland 04 (21.18 Acres, 19.38 acres Emergent & 1.80 acres Forested)

This wetland was an emergent and forested wetland, with the emergent portion located in an agricultural field and the forested portion located in an adjacent woodlot. The wetland appears to drain to the northeast generally based on surface contours, but there was no observed pathway to a downstream "water of the US" identified during field activities. There is a Marion County Legal drain running northeast to southwest through this wetland. No direct input to this legal drain was observed during field investigations. For these reasons there does not appear to be a hydrologic outlet for this wetland. Because there was no identified hydrologic connection to another "waters of the U.S.." this feature should not be considered a "waters of the U.S."

Wetland Data Point

Data Point 10 (dp10)

Dominant vegetation in the vicinity of dp10 included Blunt Spike-Rush (OBL), and Common Spike-Rush (*Eleocharis palustris*, OBL). In addition, non-dominant vegetation observed included Reed Canary Grass (*Phalaris arundinacea*, FACW), American Water-Plantain (*Alisma subcordatum*, OBL), and Devil's-Pitchfork (*Bidens frondosa*, FACW). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 3/1 with concentrations in the matrix at 4 percent, and a texture of Clay Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and met the Redox Dark Surface (F6) hydric soil criteria. The primary indicators of hydrology observed were Surface Water (A1), Saturation (A3), Algal Mat or Crust (B4), and the secondary indicator of hydrology was the FAC-Neutral Test (D5). This data point qualified as a wetland.

Upland Data Point

Data Point 11 (dp11)

Dominant vegetation in the vicinity of dp11 included Pin Oak (*Quercus palustris*, FACW), Green Ash (*Fraxinus pennsylvanica*, FACW), Common Hackberry (FAC), Silver Maple (*Acer saccharinum*, FACW), and White Panicled American-Aster (*Symphyotrichum lanceolatum*, FAC). In addition, non-dominant vegetation observed included American Elm (*Ulmus americana*, FACW), Common Hackberry (FAC), and Small-Spike False Nettle (*Boehmeria cylindrica*, OBL). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 2/2 with concentrations in the matrix at 2 percent, and a texture of Clay Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and did not meet any hydric soil criteria. Primary indicators of hydrology included Saturation (A3), Water-Stained Leaves (B9), and secondary indicators of hydrology observed included Geomorphic Position (D2), and the FAC-Neutral Test (D5). This data point did not meet wetland criteria.

Upland Data Point

Data Point 12 (dp12)

Dominant vegetation in the vicinity of dp12 included Honey-Locust (*Gleditsia triacanthos*, FACU), Common Hackberry (FAC), Red Maple (*Acer rubrum*, FAC), Amur honeysuckle (UPL), Aniseroot (*Osmorhiza longistylis*, FACU), Spotted Touch-Me-Not (*Impatiens capensis*, FACW), and Garlic-Mustard (*Alliaria petiolata*, FAC). In addition, non-dominant vegetation observed included Slippery

Elm (*Ulmus rubra*, FAC), Rough-Leaf Dogwood (FAC), and Spring Avens (FACU). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 3/1 with a texture of Silt Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and did not meet any hydric soil criteria. No indicators of hydrology were observed. This data point did not meet wetland criteria.

Wetland Data Point

Data Point 13 (dp13)

Dominant vegetation in the vicinity of dp13 included Tufted Meadow-Foxtail (FACW). In addition, non-dominant vegetation observed included Cress-Leaf Groundsel (FACW), Little Barley (Hordeum pusillum, FAC), Neckweed (FACW), Cursed Buttercup (OBL), and Late Goldenrod (Solidago gigantea, FACW). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 3 inches had a matrix soil color of 10YR 2/1 with a texture of Silt Loam. The soil from 3 to 16 inches had a matrix soil color of 10YR 4/1 with concentrations in the matrix at 2 percent, and a texture of Silt Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and met the Depleted Below Dark Surface (A11), and Depleted Matrix (F3) hydric soil criteria. Primary indicators of hydrology included Saturation (A3), and secondary indicators of hydrology observed included Geomorphic Position (D2), and the FAC-Neutral Test (D5). This data point qualified as a wetland.

Upland Data Point

Data Point 14 (dp14)

Dominant vegetation in the vicinity of dp14 included Norwegian Cinquefoil (*Potentilla norvegica*, FAC), and Curly Dock (FAC). In addition, non-dominant vegetation observed included Lesser Poverty Rush (*Juncus tenuis*, FAC), Carolina geranium (*Geranium carolinianum*, UPL), Little Barley (FAC), Lance-Leaf Gayfeather (*Liatris lancifolia*, FACW), and Neckweed (FACW). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 3/1 with a texture of Silt Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and did not meet any hydric soil criteria. No indicators of hydrology were observed. This data point did not meet wetland criteria.

Upland Data Point

Data Point 15 (dp15)

Dominant vegetation in the vicinity of dp15 included White Bedstraw (*Galium mollugo*, FACU), Kentucky Blue Grass (*Poa pratensis*, FAC), and Red Clover (*Trifolium pratense*, FACU). In addition, non-dominant vegetation observed included Tall False Rye Grass (*Schedonorus arundinaceus*, FACU), and Common Dandelion (*Taraxacum officinale*, FACU). The plants at this data point did not qualify as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 5/3 with a texture of Silt Loam. The soil at the data point was mapped as Miami silt loam-Urban land complex, 2 to 6 percent slopes, eroded (YmsB2), and did not meet any hydric soil criteria. No indicators of hydrology were observed. This data point did not meet wetland criteria.

Upland Data Point

Data Point 16 (dp16)

Dominant vegetation in the vicinity of dp16 included American Sycamore (*Platanus occidentalis*, FACW), Common Hackberry (FAC), Rough-Leaf Dogwood (FAC), Amur honeysuckle (UPL), Eastern Cottonwood (*Populus deltoides*, FAC), and winter creeper (*Euonymus fortunei*, UPL). The plants at this data point qualified as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 4/2 with a texture of Silt Loam. The soil at the data point was mapped as Crosby silt loam, fine-loamy subsoil-Urban land complex, 0 to 2 percent slopes (YcIA), and did not meet any hydric soil criteria. No indicators of hydrology were observed. This data point did not meet wetland criteria.

Upland Data Point

Data Point 17 (dp17)

Dominant vegetation in the vicinity of dp17 included Rough-Leaf Dogwood (FAC), Honey-Locust (FACU), Tall Goldenrod (*Solidago altissima*, FACU), and Kentucky Blue Grass (FAC). In addition, non-dominant vegetation observed included Green Ash (FACW), Callery pear (*Pyrus calleryana*, UPL), autumn olive (*Elaeagnus umbellata*, UPL), Giant Ironweed (*Vernonia gigantea*, FAC), and Eastern Poison Ivy (FAC). The plants at this data point did not qualify as hydrophytic vegetation. The soil from 0 to 16 inches had a matrix soil color of 10YR 4/1 with a texture of Silt Loam. The soil at the data point was mapped as Treaty silty clay loam, 0 to 1 percent slopes (ThrA), and did not meet any hydric soil criteria. No indicators of hydrology were observed. This data point did not meet wetland criteria.

5 Jurisdictional Analysis

5.1 U.S. Army Corps of Engineers

The USACE has authority over the discharge of fill or dredged material into "waters of the U.S.". This includes authority over any filling, mechanical land clearing, or construction activities that occur within the boundaries of any "waters of the U.S.". A permit must be obtained from the USACE under Section 404 of the CWA before any of these activities occur. Permits can be divided into three general categories: Individual Permits, Nationwide Permits (NWP), and the Regional General Permits for Indiana.

Individual Permits are required for projects that do not fall into one of the specific NWP or the Regional General Permit (RGP) or are deemed to have significant environmental impacts. These permits are much more difficult to obtain and receive a much higher level of regulatory agency and public scrutiny and may require several months to more than a year for processing.

NWP have been developed for projects which meet specific criteria and are deemed to have minimal impact on the aquatic environment. In Indiana, however, most NWP's have been rescinded and replaced by the RGP.

The RGP for Indiana authorizes activities associated with the construction or installation of new facilities or structures as well as for agriculture or mining. Proposed wetland impacts must be less than 1 acre and meet specific criteria in order to qualify for these permits. Section 401 WQC must be obtained from IDEM before the USACE will finalize their permit review.

5.2 Indiana Department of Environmental Management

5.2.1 **401 Water Quality Certification**

IDEM is responsible for issuing CWA Section 401 WQCs in conjunction with the USACE Section 404 permits. IDEM requires notification for all permanent non-isolated wetland impacts less than 0.10 acre, which entails a brief notification form that must be signed by the applicant. If only temporary wetland impacts are proposed, then notification is also required for the cumulative wetland temporary impacts that exceed 0.10 acre. However, for non-isolated wetland impacts greater than 0.10 acre, an application for WQC must be submitted concurrently with a wetland mitigation plan. IDEM will not initiate their review process until both the application and wetland mitigation plan have been submitted.

5.2.2 Isolated Wetland Law

Applicants proposing an impact to an "isolated wetland," which is a wetland that the USACE has determined to be a non-federally jurisdictional wetland, are required to apply for and obtain Isolated Wetland Permits from IDEM. Isolated wetland permits are required under Indiana's State Isolated Wetland Law (Indiana Code 13-18-22 and 327 Indiana Administrative Code 17). Under Indiana's Isolated Wetlands Law, certain activities are exempt from permitting, and certain wetlands are considered to be "exempt isolated wetlands". Actions exempt from permitting are explained under 327 IAC 17-1-7 and wetlands exempt from permitting are defined under IC 13-11-2-74.5, as amended by P.L.113-2014, Section 47, [EFFECTIVE JULY 1, 2021].

5.3 Indiana Department of Natural Resources

Indiana Department of Natural Resources (IDNR) has jurisdiction over mapped floodways, floodplains where there is no mapped floodway (Figure 3), and the floodway of ditches and streams with a watershed greater than one (1) square mile (Figure 3). If impacts are proposed to jurisdictional floodways, a Construction-In-A-Floodway Permit may be required from IDNR.

6 Summary and Conclusion

6.1 Summary

Cardno now Stantec inspected the Northeast Parcel of County Line and Arlington Study Area on May 12, 2022. Delineated features are shown on Figure 5 and in Table 6-1. Four wetlands were identified within the Study Area.

6.1.1 Wetlands and Waterways

Table 6-1 Features Identified Within the Northeast Parcel of County Line and Arlington Study Area

Feature	USGS/NWI Identified	Feature Class ¹	Regulatory Status ²	Dimensions (FT)		QHEI/HHEI	Linear Feet	Acreage
Name				Width	Depth	Score	(LF)	(AC)
Wetland 01	No	PEM	Non-JD	-	-	-	-	0.08
Wetland 02	No	PEM	Non-JD	-	-	-	-	0.69
Wetland 03	Yes	PEM/PFO	Non-JD	-	-	-	-	3.69
Wetland 04	No	PEM/PFO	Non-JD	-	-	-	-	21.18
TOTA	1.0	WETI	WETLAND		EM	Non ID		22.60
TOTA	LS	WETLAND		PFO		Non-JD	•	3.04

¹Feature Class is based on our professional judgement and experience, however, the USACE makes the final determination on stream classes and non-isolated wetland classes, and IDEM makes the final determination on isolated wetland classes.

6.1.2 Floodways and Floodplains

The FEMA floodplain digital mapping of the area (Figure 3) identified no areas of flood hazard within the Study Area.

6.2 Conclusion

Four wetlands were identified within the Study Area. While this report represents our best professional judgment based on our knowledge and experience, it is important to note that the Louisville District of the U.S. Army Corps of Engineers has final discretionary authority over all jurisdictional determinations of 'waters of the U.S.' including wetlands under Section 404 of the CWA in this region. It is therefore, recommended that a copy of this report be furnished to the Louisville District of the U.S. Army Corps of Engineers to confirm the results of our findings.

² Regulatory Status is based on our professional judgment and experience; however, the USACE makes the final determination

7 References

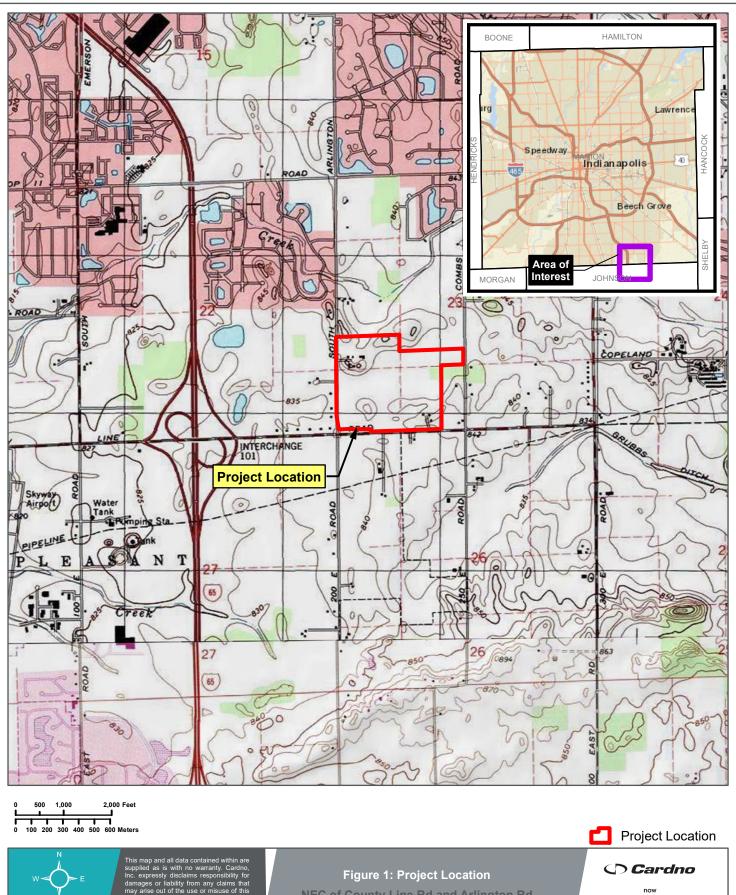
- Environmental Laboratory. 1987. U.S. Army Corps of Engineers' Wetland Delineation Manual, Technical Report Y-87-1, U.S. Waterways Experiment Station, Vicksburg, MS.
- Environmental Laboratory. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, ERDC/EL TR-10-16, U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- Reed, P. B., Jr. 1988. National List of Plant Species that Occur in Wetlands: 1988. Washington, DC: U.S. Fish and Wildlife Service.
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- StreamStats, United States Geological Survey. Available online at https://streamstats.usgs.gov. Accessed [8/8/2022].
- U.S. Army Corps of Engineers 2018. National Wetland Plant List, version 3.4 http://wetland-plants.usace.army.mil/ U.S. Army Corps of Engineers Engineer Research and Development Center Cold Regions Research and Engineering Laboratory, Hanover, NH
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Northeast Parcel of County Line and Arlington, Indianapolis, Marion County, Indiana

APPENDIX



FIGURES

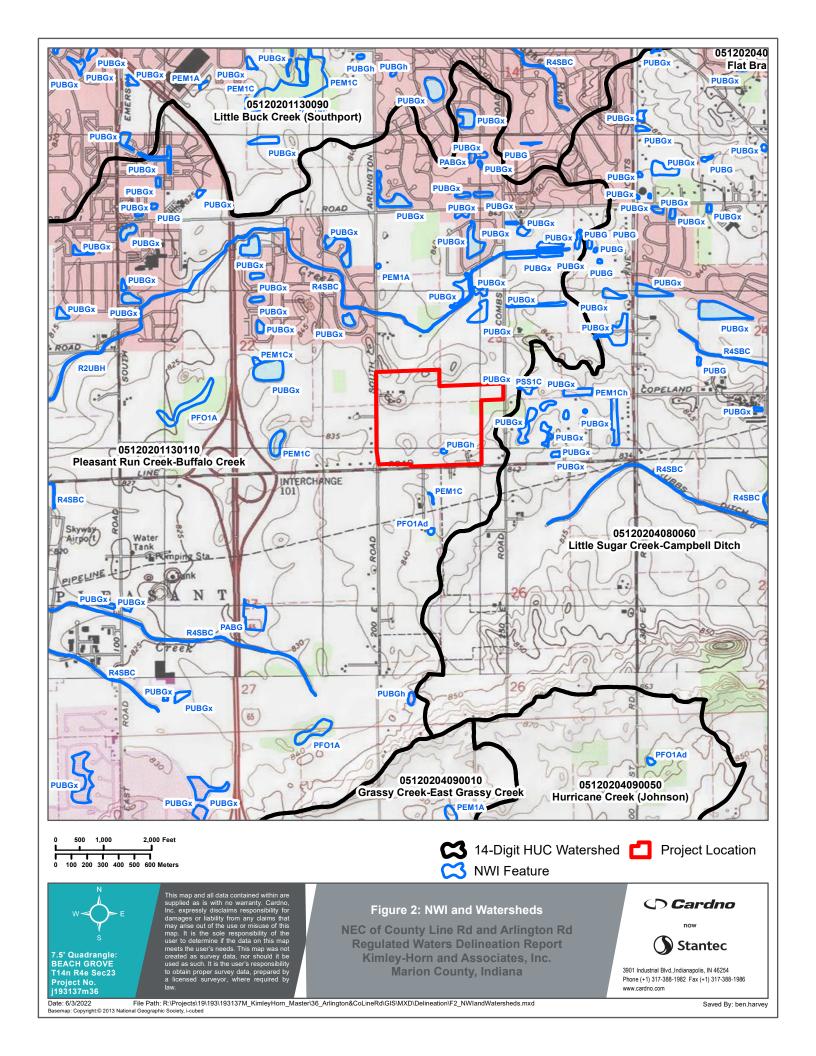


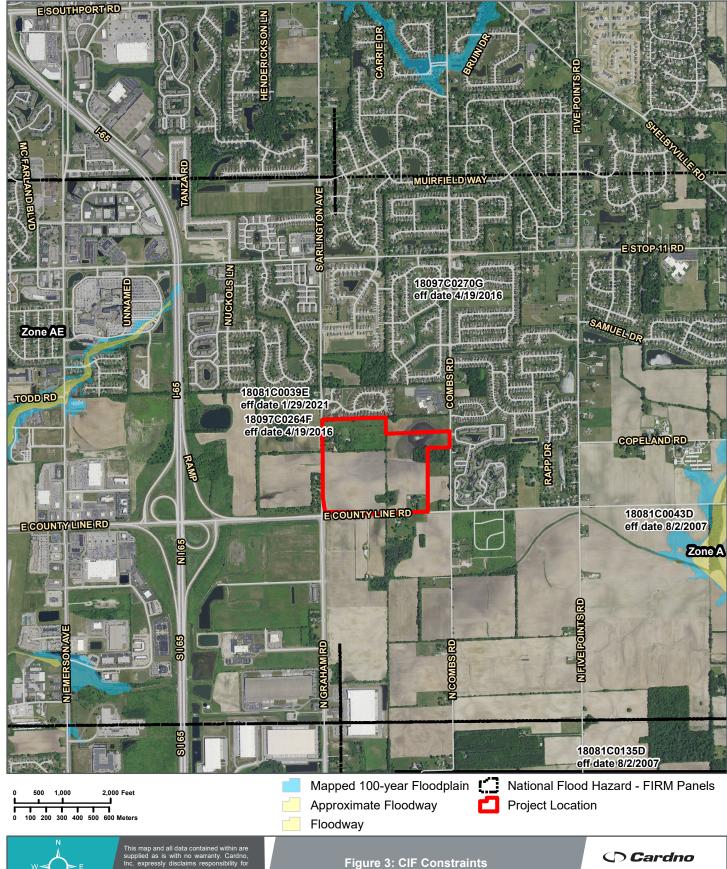


NEC of County Line Rd and Arlington Rd Regulated Waters Delineation Report Kimley-Horn and Associates, Inc. **Marion County, Indiana**



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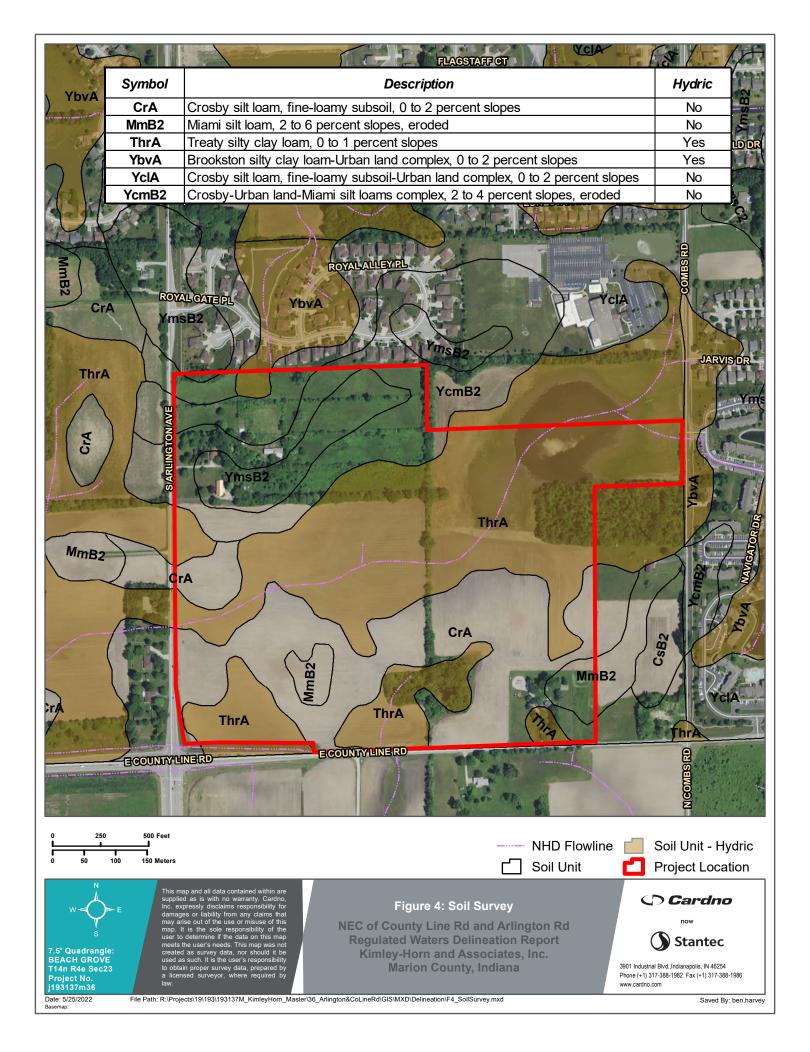


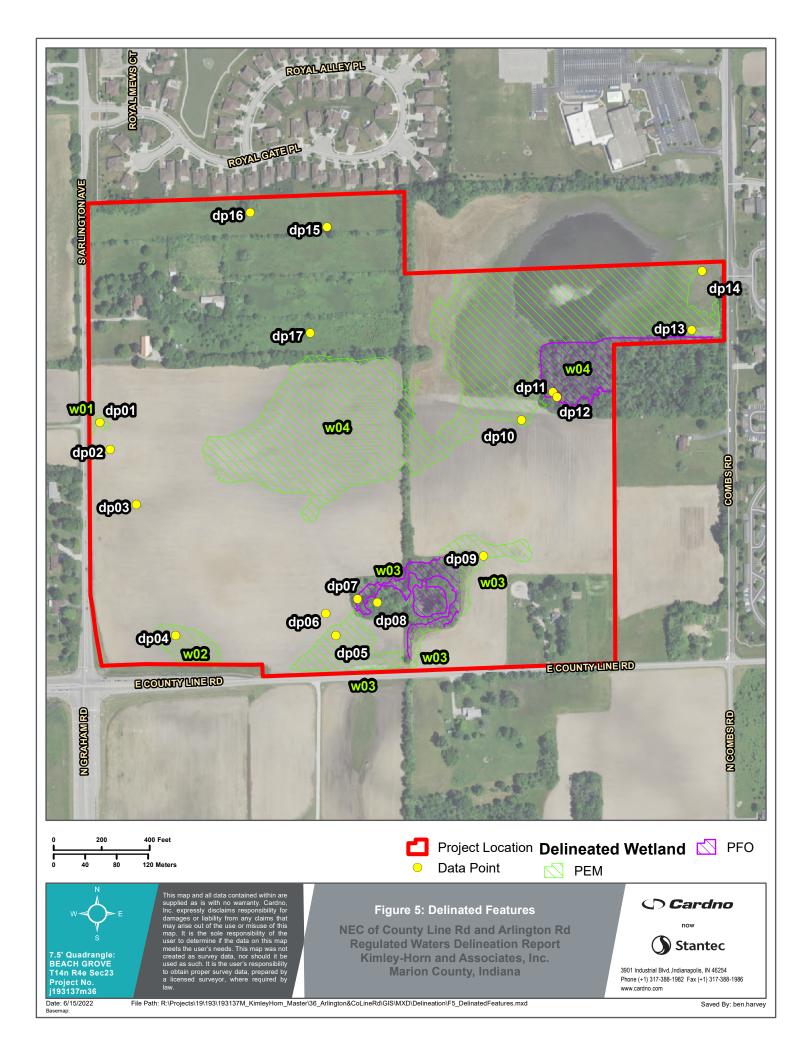
7.5' Quadrangle: BEACH GROVE T14n R4e Sec23 Project No. j193137m36 This map and all data contained within are supplied as is with no warranty. Cardno, Inc. expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by all icensed surveyor, where required by law.

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Northeast Parcel of County Line and Arlington, Indianapolis, Marion County, Indiana

APPENDIX

B

SITE PHOTOGRAPHS



DP01, View Looking North



DP01, View Looking South



DP01, View Looking East



DP01, View Looking West







DP02, View Looking North



DP02, View Looking South



DP02, View Looking East



DP02, View Looking West







DP03, View Looking North



DP03, View Looking South



DP03, View Looking East



DP03, View Looking West







DP04, View Looking North



DP04, View Looking South



DP04, View Looking East



DP04, View Looking West







DP05, View Looking North



DP05, View Looking South



DP05, View Looking East



DP05, View Looking West







DP06, View Looking North



DP06, View Looking South



DP06, View Looking East



DP06, View Looking West







DP07, View Looking North



DP07, View Looking South



DP07, View Looking East



DP07, View Looking West







DP08, View Looking North



DP08, View Looking South



DP08, View Looking East



DP08, View Looking West







DP09, View Looking North



DP09, View Looking South



DP09, View Looking East



DP09, View Looking West







DP10, View Looking North



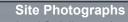
DP10, View Looking South



DP10, View Looking East



DP10, View Looking West







DP11, View Looking North



DP11, View Looking South



DP11, View Looking East



DP11, View Looking West







DP12, View Looking North



DP12, View Looking South



DP12, View Looking East



DP12, View Looking West

Site Photographs





DP13, View Looking North



DP13, View Looking South



DP13, View Looking East



DP13, View Looking West







DP14, View Looking North



DP14, View Looking South



DP14, View Looking East



DP14, View Looking West







DP15, View Looking North



DP15, View Looking South



DP15, View Looking East



DP15, View Looking West







DP16, View Looking North



DP16, View Looking South



DP16, View Looking East



DP16, View Looking West

Site Photographs





DP17, View Looking North



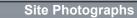
DP17, View Looking South



DP17, View Looking East



DP17, View Looking West





Northeast Parcel of County Line and Arlington, Indianapolis, Marion County, Indiana

APPENDIX

C

WETLAND DELINEATION DATA SHEETS – MIDWEST REGION

Project/Site:	Northeast Corner of C	County Line & Arlington				City/County:	: Indianapolis/M	arion	Sampling Date: <u>5/12/2022</u>
Applicant/Owner:	Kimley Horn					State:	: IN	Sampling Point:	dp01
Investigator(s):	Ben Hess & Paige Eig	chelberger					Section, Townsh	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):							al relief (concave, convex, none): r	none
Slope (%):	1%	Lat:	39.63984257			Long:	-8	6.06345175	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loam,	0 to 1 percent slopes (ThrA)					NWI classif	ication: none
Are climatic / hydro	logic conditions on the	site typical for this time of ye	ar?			Yes	X No	(If no, explain in Remarks.)	
Are Vegetation	N	, Soil N	, or Hydrology	N si	ignificantly dist	_		al Circumstances" present?	Yes X No
Are Vegetation	N	, Soil N	, or Hydrology		aturally proble			, explain any answers in Remarks.	
		ch site map showing						, . , ,	,
	getation Present?	on one map eneming	Yes x	No	1100010, 1111		Sampled Ar	02	
Hydric Soil Pres			Yes X	No			a Wetland?		No
Wetland Hydrol			Yes X	No		***************************************	ra wonana.	100 <u>x</u>	
Remarks:		and of wheels							
VEGETATION	Use scientific na	ames of plants.			Absolute	Dominant	Indicator	1	
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test worksheet:	
1.	0.20.00 (adido)			-	70 00101	Ореспес	Otatas	Dominance rest worksheet.	
2.						-		Number of Dominant Species	
3.								That Are OBL, FACW, or FAC:	2 (A)
4.									
5.								Total Number of Dominant	
						= Total Cover		Species Across All Strata:	(B)
_									
	tum (Plot size: 15' radiu	us)						Percent of Dominant Species	
1								That Are OBL, FACW, or FAC:	(A/B)
2									
3.						-		Decorded as Index weeks as to	
4. 5.								Prevalence Index worksheet:	
5.						= Total Cover		Total % Cover of:	Multiply by:
						- Total Cover		That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	size: 5' radius)							OBL species	x1 =
Alopecurus car					5%	Yes	FACW	FACW species 10%	x2 = 0.20
2. Veronica pereg	ırina				5%	Yes	FACW	FAC species	x3 =
3.								FACU species	x4 =
4.								UPL species	x5 =
5								Column Totals: 10%	(A) 0.20 (B)
6									
7								Prevalence Index = E	3/A = 2.00
8.									
9.								Ib.doo.b.dia Vanatatian India	
10. 11.								Hydrophytic Vegetation Indica	ators:
								X 1-Rapid Test for Hydro	nhytic Vegetation
12. 13.				 -				X 2-Dominance Test is >	
14.				·				X 3-Prevalence Index is s	
15.									ations ¹ (Provide supporting
16.						-		data in Remarks or on	a separate sheet)
17.									tic Vegetation ¹ (Explain)
18.									
19.								¹ Indicators of hydric soil and wet	tland hydrology must
20.								be present, unless disturbed or	problematic.
					10%	= Total Cover			
,									
•	m (Plot size: 30' radius	<u> </u>						Hydrophytic	
1								Vegetation	
2								Present? Yes_	X No
				-		= Total Cover			
D	at at a second of							1	
kemarks: (Include	photo numbers here or	on a separate sheet.)							

SOIL							San	npling Point: dp01
Profile Desc	cription: (Describe to the	e depth neede	ed to document the i	ndicator or co	onfirm the a	bsence of	indicators.)	
Depth	Matrix		Re	edox Features			=	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16"	10YR 5/1	98	10YR 5/6	2	C	M	Loam	
¹ Type: C=C	Concentration, D=Depletion	n RM=Reduce	ed Matrix CS=Covere	d or Coated Sa	and Grains	² Location	n: PL=Pore Lining,	M=Matrix
,,	Indicators ³ :	ii, rawiii rouduoc	od Matrix, OO=OOVOIO	a or ocaloa oc	and Oramo.		ndicators of Hydri	
Histos	ol (A1)		Sandy Gley	ed Matrix (S4)			-	anese Masses (F12)
	Epipedon (A2)		Sandy Red					ow Dark Surface (F22)
	Histic (A3)		Stripped Ma					olain in Remarks)
Hydrog	gen Sulfide (A4)		Dark Surface	ce (S7)				
Stratifi	ed Layers (A5)		Loamy Muc	ky Mineral (F1))			
2 cm N	fluck (A10)		Loamy Gley	ed Matrix (F2)				
Deplet	ed Below Dark Surface (A	11)	X Depleted M	atrix (F3)				
Thick I	Dark Surface (A12)		Redox Dark	Surface (F6)			³ The hydric soil i	ndicators have been updated to
	Mucky Mineral (S1)			ark Surface (F	7)			ne Field Indicators of Hydric Soils
5 cm N	flucky Peat or Peat (S3)		Redox Dep	ressions (F8)			in the United	States, Version 8.0, 2016.
				00010110 (1 0)				States, Vereien 6.6, 2016.
	Layer (if observed):		<u> </u>					0.000, 10.000 0.0, 2010.
	Layer (if observed):			Coolone (1 o)				0.000, 10.000, 2010.
Restrictive Type: Depth (Layer (if observed):			555.61.6 (1.6)		Hydric S	oil Present?	Yes X No
Restrictive Type: Depth ((inches):					Hydric S		
Restrictive Type: Depth (OGY					Hydric S		
Restrictive Type: Depth (Remarks:	OGY drology Indicators:	required; abou	ok all that apply)			Hydric S	Soil Present?	Yes X No
Restrictive Type: Depth (emarks: HYDROL Wetland Hy Primary Indi	OGY drology Indicators:	required: chec			on.	Hydric S	Soil Present?	Yes X No
Restrictive Type: Depth (emarks: IYDROL Vetland Hy Primary Indi X Surface	OGY drology Indicators: cators (minimum of one is e Water (A1)	required: chec	Water-Stair	ned Leaves (BS	()	Hydric S	Soil Present? Secondary Indica X Surface So	Yes X No
Restrictive Type: Depth (emarks: IYDROL Vetland Hy Primary Indi X Surfac High V	OGY drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2)	required: chec	Water-Stair Aquatic Fau	ned Leaves (B9	9)	Hydric S	Secondary Indica X Surface So Drainage F	Yes X No
Restrictive Type: Depth (emarks: HYDROL Vetland Hy Primary Indi X Surfac High V X Satura	OGY drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3)	required: chec	Water-Stair Aquatic Fau True Aquati	ned Leaves (B9 ina (B13) c Plants (B14)		Hydric S	Secondary Indica X Surface So Drainage F Dry-Seaso	Yes X No
Restrictive Type: Depth (emarks: IYDROL Vetland Hy Primary Indi X Surfac High V X Satura Water	OGY drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1)	required: ched	Water-Stair Aquatic Fau True Aquati Hydrogen S	ned Leaves (B9 Ina (B13) c Plants (B14) ulfide Odor (C	1)		Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B	Yes X No
Restrictive Type: Depth (emarks: IYDROL Vetland Hy Primary Indi X Surfac High V X Satura Water Sedim	COGY drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	required: chec	Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized Ri	ned Leaves (BS ina (B13) c Plants (B14) fulfide Odor (C nizospheres on	1) Living Root		Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation	Yes X No
Restrictive Type: Depth (emarks: IYDROL Vetland Hy Primary Indi X Surfac High V X Satura Water Sedim Drift D	drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	required: chec	Water-Stair Aquatic Fat True Aquati Hydrogen S Oxidized RI Presence o	ned Leaves (BS ina (B13) c Plants (B14) iulfide Odor (C nizospheres on f Reduced Iron	1) Living Root (C4)	s (C3)	Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	Ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Restrictive Type: Depth (Remarks: HYDROL Wetland Hy Primary Indi X Surfac High V X Satura Water Sedim Drift D Algal N	COGY drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	required: ched	Water-Stair Aquatic Fat True Aquati Hydrogen S Oxidized RI Presence o Recent Iron	ned Leaves (BS ina (B13) c Plants (B14) fulfide Odor (C nizospheres on	1) Living Root (C4)	s (C3)	Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	Yes X No
Restrictive Type: Depth (emarks: IYDROL Vetland Hy Primary Indi X Surfac High V X Satura Water Sedim Drift D Algal N Iron De	Cinches): OGY drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4)		Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck	ned Leaves (BS ina (B13) c Plants (B14) iulfide Odor (C nizospheres on f Reduced Iron Reduction in T	1) Living Root (C4)	s (C3)	Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	Ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Restrictive Type: Depth (Remarks: TYDROL Wetland Hy Primary Indi X Surfac High V X Satura Water Sedim Drift D Algal M Iron Do Inunda	Cinches): COGY drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)	gery (B7)	Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W	ned Leaves (B9 ina (B13) c Plants (B14) fulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7)	1) Living Root (C4) Filled Soils (G	s (C3)	Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	Ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Restrictive Type: Depth (Remarks: Primary Indi X Surface High V X Satura Water Sedim Drift D Algal N Iron Do Inunda Sparse	Cody drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imagely Vegetated Concave Su	gery (B7)	Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W	ned Leaves (BS ina (B13) c Plants (B14) iulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9)	1) Living Root (C4) Filled Soils (G	s (C3)	Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	Ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Restrictive Type: Depth (Remarks: Permarks: HYDROL Wetland Hy Primary Indi X Surfac High V X Satura Water Sedim Drift D Algal N Iron De Inunda Sparse	drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial Imagely Vegetated Concave Survations:	gery (B7)	Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl	ned Leaves (B9) Ina (B13) Ina (B14)	1) Living Root (C4) Filled Soils (G	s (C3)	Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	Ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Restrictive Type: Depth (Remarks: HYDROL Wetland Hy Primary Indi X Surfac High V X Satura Water Sedim Drift D Algal N Iron De Inunda Sparse	inches): OGY drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial Imagely Vegetated Concave Survations: ter Present?	jery (B7) rface (B8)	Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl	ned Leaves (BS) Ina (B13) Ina (B13) Ina (B14)	1) Living Root (C4) Filled Soils (G	s (C3)	Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	Ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Restrictive Type: Depth (Remarks: HYDROL Wetland Hy Primary Indi X Surfac High V X Satura Water Sedim Drift D Algal M Iron Do Inunda Sparse Field Obser Surface Wa	Cody drology Indicators: cators (minimum of one is e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) dition Visible on Aerial Imagely Vegetated Concave Survations: ter Present? Ye Present?	jery (B7) rface (B8)	Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl	ned Leaves (BS) ina (B13) c Plants (B14) iulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s):	1) Living Root (C4) Filled Soils (6	s (C3)	Secondary Indica X Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	Ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)

Project/Site:	Northeast Corner of	County Line & A	rlington			City/Coun	ty: Indiana	polis/Mario	on	;	Sampling Da	te: 5/12/20)22
Applicant/Owner:	Kimley Horn					Stat	te: IN		Sampling Poin	t:	dp	02	
Investigator(s):	Ben Hess & Paige E	ichelberger					Section, T	Township,	Range: S23 T14	N R4E			
Landform (hillslope	e, terrace, etc.):						_	Local re	elief (concave, co	nvex, none): ne	one		
Slope (%):	1%	Lat:	39.6	3953101		Long:		-86.0	6330334		Datum: N	AD83 UTM	116N
Soil Map Unit Nam	e: Crosby silt loam, fine	-loamy subsoil, (to 2 percent slopes (CrA)							NWI classific	cation: no	one	
Are climatic / hydro	ologic conditions on the	site typical for th	nis time of year?			Yes	s <u>X</u>	No	(If no, explain	in Remarks.)			
Are Vegetation	N	, Soil	N , or Hydrolog	y <u>N</u>	significantly di	isturbed?	Are	e "Normal	Circumstances" p	resent?	Yes	X No	
Are Vegetation	N	, Soil	N , or Hydrolog	y <u>N</u>	naturally probl	lematic?	(If r	needed, ex	xplain any answer	s in Remarks.)			
SUMMARY OF	FINDINGS Atta	ch site map	showing sampling po	int location	s, transects, in	nportant featu	ıres, etc.	:.					
Hydrophytic Ve	getation Present?		Yes		No x	ls th	e Sampl	led Area	1				
Hydric Soil Pres			Yes		No x	_	in a Wet			Yes	No	X	
Wetland Hydro	logy Present?		Yes		No x	_						,	
Remarks:	Use scientific n	ames of pla	nts										
VEGETATION	OSC SCICITATION	unics or plai	113.		Absolute	Dominant	Indica	ator					
Tree Stratum (Plot	t size: 30' radius)				% Cover	Species?	Stat		Dominance Test	worksheet:			
1.					·			,					
2.									Number of Domin	ant Species			
3.									That Are OBL, FA	CW, or FAC:		0	(A)
4.													
5									Total Number of D	Dominant			
						= Total Cover			Species Across A	Il Strata:		3	(B)
	tum (Plot size: 15' rad	us)							Percent of Domina				
1								l	That Are OBL, FA	CW, or FAC:)%	(A/B)
2.													
3.								— I.					
4. 5.									Prevalence Index	worksneet:			
5.						= Total Cover			Total % C	over of:	N.	Aultiply by	
						= Total Cover		1	That Are OBL, FA			fultiply by:	A/B
Herb Stratum (Plo	t size: 5' radius)							-	OBL species	,	x1 =		
Capsella bursa					40%	Yes	FAC		FACW species		x2 =		
Thlaspi arvens					40%	Yes	FAC		FAC species		x3 =		
3. Stellaria media					30%	Yes	FAC		FACU species	125%	x4 =	5.00	
4. Erigeron annuu	us				5%	No	FAC	CU	UPL species		x5 =		
5. Sonchus asper	r				5%	No	FAC	CU	Column Totals:	125%	(A)	5.00	(B)
6. Allium vineale					5%	No	FAC	CU					
7									Prevale	ence Index = B/	'A =	4.00	
8.													
9													
10									Hydrophytic Veg	etation Indica	tors:		
11.													
12.										Test for Hydrop		ition	
13.										ance Test is >5 ence Index is ≤			
14.										ence index is ≤ ological Adapta		do cupporti	na
15.													ng
16. 17.										Remarks or on a atic Hydrophyti			
18.						_				alic riyaropriya	c vegetation	(Explair)	
19.									1Indicators of hydr	ic soil and wetl	and hydrolog	nv must	
20.									be present, unless			gy mast	
					125%	= Total Cover		— '	be present, unles	s disturbed or p	nobiematic.		
					12070	- 13141 00161		— -					
Woody Vine Stratu	ım (Plot size: 30' radiu	s)						— I	Hydrophytic				
1.		· —							Vegetation				
2.									Present?	Yes	No	X	
					-	= Total Cover				_		_	
						_							
Remarks: (Include	photo numbers here o	r on a separate s	sheet.)										

	ription: (Describe to t	no doptin noca				DOCTION OF	indicator oi,		
epth	Matrix			ox Features	_ 1	. 2	_	_	
nches)	Color (moist)	%	Color (moist)	<u></u> %	Type ¹	Loc ²	Texture	Ren	narks
0-16"	10YR 4/3	100					Silt Loam		
			_						
	•	on, RM=Reduce	ed Matrix, CS=Covered	or Coated Sa	nd Grains.	² Location	: PL=Pore Lining, I	M=Matrix.	
ydric Soil I	ndicators³:					Test In	dicators of Hydric		
Histoso	` ,		Sandy Gleyed					inese Masses (F12	
	pipedon (A2)		Sandy Redox					w Dark Surface (F2	22)
	istic (A3)		Stripped Matri	, ,			Other (Exp	ain in Remarks)	
	en Sulfide (A4)		Dark Surface	` '					
	d Layers (A5)		Loamy Mucky						
	uck (A10)		Loamy Gleyed						
	d Below Dark Surface (A11)	Depleted Mate				3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
	ark Surface (A12)		Redox Dark S		7\			ndicators have beer	
	Mucky Mineral (S1) ucky Peat or Peat (S3)		Depleted Darl Redox Depres		')		. ,	e <i>Field Indicators o</i> States , Version 8.0,	•
3 CITI WI	ucky real of real (33)		Redox Depres	5510115 (F6)			iii iiie Oilitea s	olales, version o.u,	, 2010.
	ayer (if observed):								
Type:						Uvdrio S	oil Procent?	Voc	No
Type:						Hydric So	oil Present?	Yes	No;
Type: Depth (ii marks: YDROL(etland Hyd rimary Indic Surface High W	OGY rology Indicators: ators (minimum of one Water (A1) ater Table (A2)	is required: che	Water-Stained Aquatic Fauna	a (B13))	Hydric So	Secondary Indica Surface So Drainage P	tors (minimum of two	
Type:	Prology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3)	is required: che	Water-Stained Aquatic Fauna True Aquatic	a (B13) Plants (B14)	,	Hydric So	Secondary Indica Surface So Drainage P	tors (minimum of to il Cracks (B6) tatterns (B10) n Water Table (C2)	
Type: Depth (ii emarks: YDROL(fetland Hyd frimary Indic Surface High W Saturati Water M	OGY rology Indicators: ators (minimum of one Water (A1) ater Table (A2)	is required: che	Water-Stained Aquatic Fauna	a (B13) Plants (B14) fide Odor (C1	1)		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu	tors (minimum of to il Cracks (B6) tatterns (B10) n Water Table (C2)	vo required)
Type: Depth (ii emarks: YDROLO /etland Hyd rimary Indic Surface High W Saturati Water M Sedime	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1)	is required: che	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul	a (B13) Plants (B14) fide Odor (C1 cospheres on	1) Living Root		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu	tors (minimum of twill Cracks (B6) atterns (B10) n Water Table (C2)	vo required) agery (C9)
Type: Depth (ii emarks: YDROLO /etland Hyd rimary Indic Surface High W Saturati Water M Sedime Drift De	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2)	is required: che	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron	1) Living Root (C4)	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	tors (minimum of twill Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im	vo required) agery (C9)
Type: Depth (iii emarks: YDROLO /etland Hyde Primary Indice Surface High W Saturati Water N Sedime Drift De Algal M	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	is required: che	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron deduction in T	1) Living Root (C4)	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of twil Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (D	vo required) agery (C9)
Type: Depth (ii emarks: YDROLO /etland Hyd Primary Indic Surface High W Saturati Water M Sedime Drift De Algal M Iron De	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of R	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron reduction in T	1) Living Root (C4)	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of twill Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (D c Position (D2)	vo required) agery (C9)
Type: Depth (ii marks: YDROLO etland Hyd rimary Indio Surface High W Saturati Water M Sedime Drift De Algal M Iron De Inundat	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	agery (B7)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron deduction in T rrface (C7) II Data (D9)	1) Living Root (C4) Tilled Soils (f	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of twill Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (D c Position (D2)	vo required) agery (C9)
Type: Depth (ii emarks: YDROLO /etland Hyd emary Indica Surface High W Saturati Water M Sedime Drift De Algal M Iron De Inundat Sparsel	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima y Vegetated Concave S	agery (B7)	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron deduction in T rrface (C7) II Data (D9)	1) Living Root (C4) Tilled Soils (f	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of twill Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (D c Position (D2)	vo required) agery (C9)
Type: Depth (ii emarks: YDROLO Vetland Hyd Primary Indic Surface High W Saturati Water M Sedime Drift De Algal M Iron De Inundat Sparsel	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima y Vegetated Concave S	agery (B7) Surface (B8)	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron reduction in T rrface (C7) Il Data (D9) in in Remarks	1) Living Root (C4) Tilled Soils (f	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of twill Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (D c Position (D2)	vo required) agery (C9)
Type: Depth (ii emarks: YDROLO Vetland Hyd Primary Indice High W	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima y Vegetated Concave S rations: er Present?	agery (B7) surface (B8)	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron deduction in T rrface (C7) II Data (D9) on in Remarks	1) Living Root (C4) Tilled Soils (f	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of twill Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (D c Position (D2)	vo required) agery (C9)
Type: Depth (ii emarks: YDROLO Vetland Hyd Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundat Sparsel	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Serations: er Present?	agery (B7) surface (B8) Yes No Yes No _	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or Wel Other (Explain X Depth (inches):	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron Reduction in T rrface (C7) II Data (D9) on in Remarks N/A	Living Root (C4) Filled Soils (G	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutr	tors (minimum of twil Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (Dic Position (D2) al Test (D5)	wo required) agery (C9)
Type: Depth (ii emarks: YDROLO Vetland Hyd Primary Indic Surface High W Saturati Water M Sedime Drift De Algal M Iron De Inundat Sparsel ield Observ Ourface Water Table Saturation Pr	rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Ser Present? Present?	agery (B7) surface (B8)	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or Wel Other (Explain X Depth (inches):	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron Reduction in T rrface (C7) II Data (D9) on in Remarks N/A	Living Root (C4) Filled Soils (G	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of twill Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (D c Position (D2)	vo required) agery (C9) 1)
Type: Depth (ii emarks: YDROL(Vetland Hyde Primary Indice Surface High W Saturati Water M Sedime Drift De Algal M Iron De Inundat Sparsel Sield Observ Surface Water Vater Table Saturation Princludes cap	pogy rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima y Vegetated Concave S ations: er Present? Present? esent? esent?	agery (B7) furface (B8) Yes No Yes No Yes No	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or Wel Other (Explain X Depth (inches): X Depth (inches):	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron Reduction in T rrface (C7) II Data (D9) on in Remarks N/A N/A	Living Root (C4) Filled Soils (G	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutr	tors (minimum of twil Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (Dic Position (D2) al Test (D5)	vo required) agery (C9)
Type: Depth (ii marks: Performance	pogy rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima y Vegetated Concave S ations: er Present? Present? esent? esent?	agery (B7) furface (B8) Yes No Yes No Yes No	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or Wel Other (Explain X Depth (inches):	a (B13) Plants (B14) fide Odor (C1 cospheres on Reduced Iron Reduction in T rrface (C7) II Data (D9) on in Remarks N/A N/A	Living Root (C4) Filled Soils (G	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutr	tors (minimum of twil Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (Dic Position (D2) al Test (D5)	wo required) agery (C9)

Project/Site:	Northeast Corner of	County Line & Arlington			City/County	: Indianapolis/N	larion	Sampling Date: <u>5/12/2022</u>
Applicant/Owner:	Kimley Horn				State	: <u>IN</u>	Sampling Point:	dp03
Investigator(s):	Ben Hess & Paige Ei	chelberger				Section, Townsl	nip, Range: S23 T14N R4E	
Landform (hillslope	e, terrace, etc.):					Loc	al relief (concave, convex, none):	none
Slope (%):	2%	Lat:	39.63889944	!	Long:	-8	36.06292519	Datum: NAD83 UTM16N
Soil Map Unit Nam	ne: Treaty silty clay loam	, 0 to 1 percent slopes (7	hrA)				NWI class	ification: none
Are climatic / hydro	ologic conditions on the	site typical for this time of	f year?		Yes	X No	(If no, explain in Remarks.)
Are Vegetation	N	, Soil N	, or Hydrology	N significantly dis	turbed?	Are "Norr	mal Circumstances" present?	Yes X No
Are Vegetation	N	, Soil N	, or Hydrology	N naturally proble	matic?	(If needed	d, explain any answers in Remarks	s.)
SUMMARY OF	FINDINGS Atta	ch site map showi	ng sampling point lo	cations, transects, im	portant featur	res, etc.		
Hydrophytic Ve	egetation Present?		Yes x	No	Is the	Sampled A	rea	
Hydric Soil Pres			Yes	No X	withir	n a Wetland	? Yes	No <u>x</u>
Wetland Hydro	logy Present?		Yes x	No	- -			
Remarks:	lloo ocionaitio m	ower of wlants						
VEGETATION	Use scientific n	ames or plants.		Absolute	Dominant	Indicator		
Tree Stratum (Plot	t size: 30' radius)			% Cover	Species?	Status	Dominance Test worksheet:	
1.	10,20, 00 (44,40)			70 GOVCI	Ореско.	Olalus	Dominance rest worksheet.	
2.							Number of Dominant Species	
3.							That Are OBL, FACW, or FAC	: 2 (A)
4.					·		•	
5.							Total Number of Dominant	
					= Total Cover		Species Across All Strata:	(B)
	atum (Plot size: 15' radi	us)					Percent of Dominant Species	
1					<u> </u>		That Are OBL, FACW, or FAC	: 100% (A/B)
2.								
3.					- ———		. Decombes as to decomposite to a to	
4. 5.					- ———		Prevalence Index worksheet:	
5.					= Total Cover		. Total % Cover of:	Multiply by:
					- rotal cover		That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plo	ot size: 5' radius)						OBL species	x1 =
Packera glabe.				60%	Yes	FACW	FACW species 75%	x2 = 1.50
2. Rumex crispus	S			25%	Yes	FAC	FAC species 25%	x3 = 0.75
3. Veronica pereg	grina			10%	No	FACW	FACU species	x4 =
4. Alopecurus car	rolinianus			5%	No	FACW	UPL species	x5 =
5							Column Totals: 100%	(A) 2.25 (B)
6								
7							Prevalence Index =	B/A = 2.25
8.					- ——			
9. 10.					- ———		. Hudronbutio Vocatation Indi	anto ro
11.						-	Hydrophytic Vegetation Indi	cators.
12					· ———		. 1-Rapid Test for Hydr	onhytic Vegetation
13.						_	X 2-Dominance Test is	
14.							3-Prevalence Index is	
15.				 _	· 			tations ¹ (Provide supporting
16.							data in Remarks or o	
17.							Problematic Hydroph	ytic Vegetation ¹ (Explain)
18.								
19.							¹ Indicators of hydric soil and w	etland hydrology must
20.							be present, unless disturbed of	r problematic.
				100%	= Total Cover			
<u> </u>							.	
	um (Plot size: 30' radiu	s)					Hydrophytic	
1							Vegetation	
2.							Present? Yes	XNo
					= Total Cover			
Domorko: //==b-1:	nhoto numbers bear	on a congrete about						
nemarks. (Include	e photo numbers here of	оп а зерагате ѕпеет.)						

Profile Description: (Describe to the depth needed to document the Depth Matrix R	indicator or confirm the c	boones of indicate	· · · · · · · · · · · · · · · · · · ·	
Deptil Wattix	ledox Features	ibsence of indicati	JI S.)	
inches) Color (moist) % Color (moist)	% Type ¹	Loc ² Te	exture Rem	arke
0-16" 10YR 4/1 100	70 1)90	Silt Loa		
				leu
0-16" 10YR 4/2 100		Silt Loa	<u> </u>	
,,	-			
Trans C. Consentation D. Barbina DM. Barbard Matrix CO. Conse		21 ti DI D	Lining M. Matrix	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Cover lydric Soil Indicators ³ :	ed or Coated Sand Grains.		ore Lining, M=Matrix. s of Hydric Soils:	
	yed Matrix (S4)		Iron-Manganese Masses (F12)	
Histic Epipedon (A2) Sandy Rec			Very Shallow Dark Surface (F2)	2)
Black Histic (A3) Stripped M			Other (Explain in Remarks)	_,
Hydrogen Sulfide (A4) Dark Surfa			,	
Stratified Layers (A5) Loamy Mu	cky Mineral (F1)			
2 cm Muck (A10) Loamy Gle	eyed Matrix (F2)			
Depleted Below Dark Surface (A11) Depleted M				
	k Surface (F6)		nydric soil indicators have been	•
	Dark Surface (F7)		mply with the Field Indicators of	•
5 cm Mucky Peat or Peat (S3) Redox Dep	oressions (F8)	in	the United States, Version 8.0,	2016.
Restrictive Layer (if observed):				
Type:				
Depth (inches):		Hydric Soil Pres	ent? Yes	NoX
IYDROLOGY				
IYDROLOGY Vetland Hydrology Indicators:				
Vetland Hydrology Indicators:		Seco	ndary Indicators (minimum of tw	o required)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply)	ined Leaves (B9)	Secoi	ndary Indicators (minimum of two	o required)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply)	• •		,	o required)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Water-Sta	• •		Surface Soil Cracks (B6)	o required)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water-Sta Aquatic Fa	iuna (B13)		Surface Soil Cracks (B6) Drainage Patterns (B10)	o required)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Sta High Water Table (A2) Aquatic Fa X Saturation (A3) True Aqua Water Marks (B1) Hydrogen	iuna (B13) tic Plants (B14)	======================================	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima	agery (C9)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Weter Marks (B2) Oxidized Factors Aquatic Factors Aq	tuna (B13) tic Plants (B14) Sulfide Odor (C1)	======================================	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)	agery (C9)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Sta High Water Table (A2) Aquatic Fa X Saturation (A3) True Aqua Water Marks (B1) Hydrogen Sediment Deposits (B2) Oxidized Fa Drift Deposits (B3) Presence Fa Algal Mat or Crust (B4) Recent Iro	tuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living Root of Reduced Iron (C4) n Reduction in Tilled Soils (cs (C3) X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima Stunted or Stressed Plants (D1) Geomorphic Position (D2)	agery (C9)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Sta High Water Table (A2) Aquatic Fa X Saturation (A3) True Aqua Water Marks (B1) Hydrogen Sediment Deposits (B2) Oxidized Fa Drift Deposits (B3) Presence of Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck	tuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living Root of Reduced Iron (C4) n Reduction in Tilled Soils (Surface (C7)	cs (C3) X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima Stunted or Stressed Plants (D1)	agery (C9)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) X 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) Water Marks (B1) Aquatic Fa Aquatic F	tuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living Root of Reduced Iron (C4) n Reduction in Tilled Soils (Surface (C7) Well Data (D9)	cs (C3) X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima Stunted or Stressed Plants (D1) Geomorphic Position (D2)	agery (C9)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) X 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) Water Marks (B1) Aquatic Fa Aquatic F	tuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living Root of Reduced Iron (C4) n Reduction in Tilled Soils (Surface (C7)	cs (C3) X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima Stunted or Stressed Plants (D1) Geomorphic Position (D2)	agery (C9)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) X 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) Water Marks (B1) Aquatic Fa Aquatic F	tuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living Root of Reduced Iron (C4) n Reduction in Tilled Soils (Surface (C7) Well Data (D9)	cs (C3) X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima Stunted or Stressed Plants (D1) Geomorphic Position (D2)	agery (C9)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) X 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 the Company of the Company (B7) Sparsely Vegetated Concave Surface (B8) Water Marks (B1) Aquatic Fa True Aqua Aquatic Fa Presence of the Company (B7) Sparsely Vegetated Concave Surface (B8) Other (Exp. Surface Water Present? Yes No X Depth (incher	tuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living Roof of Reduced Iron (C4) n Reduction in Tilled Soils (Surface (C7) Well Data (D9) blain in Remarks)	cs (C3) X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima Stunted or Stressed Plants (D1) Geomorphic Position (D2)	agery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Sta High Water Table (A2) Aquatic Fa X Saturation (A3) True Aqua Water Marks (B1) Hydrogen Sediment Deposits (B2) Oxidized Fa Drift Deposits (B3) Presence of the present of the property of the present of the property of the present of the property of the present of the prese	tuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living Root of Reduced Iron (C4) n Reduction in Tilled Soils (Surface (C7) Well Data (D9) olain in Remarks) es): N/A ess: N/A	cs (C3) X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Ima Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)	agery (C9)

Project/Site:	Northeast Corner of C	County Line & Arlington				City/County:	Indianapolis/Ma	arion	Sampling Date: <u>5/12/2022</u>
Applicant/Owner:	Kimley Horn					State:	: IN	Sampling Point:	dp04
Investigator(s):	Ben Hess & Paige Eig	chelberger					Section, Townsh	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):							al relief (concave, convex, none):	none
Slope (%):	0%	Lat:	39.63739554			Long:	-86	6.06236431	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loam,	0 to 1 percent slopes (ThrA)			·		NWI classif	ication: none
Are climatic / hydro	logic conditions on the	site typical for this time of ye	ar?			Yes	X No	(If no, explain in Remarks.)	
Are Vegetation	N	, Soil N	, or Hydrology	N si	gnificantly dist	_		nal Circumstances" present?	Yes X No
Are Vegetation	N	, Soil N	, or Hydrology		aturally proble			, explain any answers in Remarks.	
		ch site map showing		_				, , , , , , , , , , , , , , , , , , , ,	,
	getation Present?	on one map eneming		No	ioooto, iiiip		Sampled Ar		
Hydric Soil Pres			Yes X Yes X	No_			a Wetland?		No
Wetland Hydrol			Yes X	No_		Within	i a wetiana:	163 <u> x</u>	
Remarks:									
VEGETATION	Use scientific na	ames of plants.			Absolute	Dominant	Indicator	<u> </u>	
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test worksheet:	
1.	0.20.00 (adido)			-	70 OOVCI	Орескоз	Otatus	Dominance rest worksheet.	
2.								Number of Dominant Species	
3.								That Are OBL, FACW, or FAC:	3 (A)
4.									
5.								Total Number of Dominant	
						= Total Cover		Species Across All Strata:	3 (B)
Sapling/Shrub Strat	tum (Plot size: 15' radiu	us)						Percent of Dominant Species	
1								That Are OBL, FACW, or FAC:	(A/B)
2.									
3									
4								Prevalence Index worksheet:	
5.									
						= Total Cover		Total % Cover of: That Are OBL, FACW, or FAC:	Multiply by: A/B
Herb Stratum (Plot	eize: 5' radius)							OBL species	x1 =
Myosurus minii					5%	Yes	FACW	FACW species 20%	x2 = 0.40
Alopecurus car					5%	Yes	FACW	FAC species	x3 =
Veronica pereg					10%	Yes	FACW	FACU species	x4 =
4.				-				UPL species	x5 =
5.				-				Column Totals: 20%	(A) 0.40 (B)
6.									<u> </u>
7.								Prevalence Index = E	3/A = 2.00
8.									
9.									
10.								Hydrophytic Vegetation Indic	ators:
11									
12.								X 1-Rapid Test for Hydro	phytic Vegetation
13.								X 2-Dominance Test is >	and the second s
14.								X 3-Prevalence Index is:	
15									ations ¹ (Provide supporting
16								data in Remarks or on	
17								Problematic Hydrophy	tic Vegetation ¹ (Explain)
18.								11-41-4	Alexand by Indeals and Indeals
19.								¹ Indicators of hydric soil and we	
20.					000/			be present, unless disturbed or	problematic.
					20%	= Total Cover			
Moody Vino Stratu	m (Plot size: 30' radius	.\						Hydrophytic	
1.	(1 IOL SIZE. SU TAUTUS							Vegetation	
2.						· ——		-	X No
						= Total Cover			<u></u>
				-		. 5.01 55761			
Remarks: (Include	photo numbers here or	on a separate sheet.)						+	
		•							

SOIL							Samp	oling Point: dp04
Profile Desc	ription: (Describe to th	ne depth need	ded to document the	indicator or co	onfirm the a	absence of	indicators.)	
Depth	Matrix		R	edox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8"	10YR 4/2	100					Clay Loam	
8-16"	10YR 5/1	98	10YR 4/6	2	С	М	Clay Loam	
							·	
¹Type: C=C	oncentration, D=Depletic	on, RM=Reduc	ced Matrix. CS=Covere	ed or Coated Sa	and Grains.	² Location	n: PL=Pore Lining, N	∕I=Matrix.
Hydric Soil I		J.,	304	, a o. ooa.oa o.	<u> </u>		ndicators of Hydric	
Histoso			Sandy Glev	ed Matrix (S4)			•	nese Masses (F12)
	pipedon (A2)		Sandy Red					w Dark Surface (F22)
	listic (A3)		Stripped M					ain in Remarks)
Hydrog	en Sulfide (A4)		Dark Surfa	ce (S7)				
Stratifie	d Layers (A5)		Loamy Mud	cky Mineral (F1)			
2 cm M	uck (A10)		Loamy Gle	yed Matrix (F2)				
	ed Below Dark Surface (A	411)	X Depleted M					
	ark Surface (A12)			k Surface (F6)			•	dicators have been updated to
	Mucky Mineral (S1)			ark Surface (F	7)			e Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)		Redox Dep	ressions (F8)			in the United S	tates, Version 8.0, 2016.
Restrictive L	.ayer (if observed):							
Type:		_						
Depth (i						Hydric S	oil Present?	Yes X No
Depth (i	nches):					Hydric S	Soil Present?	Yes X No
Depth (i	nches):					Hydric S	Soil Present?	Yes X No
Depth (i Remarks: HYDROLO Wetland Hyd	OGY Irology Indicators:					Hydric S		
Depth (i Remarks: HYDROLO Wetland Hyd Primary India	OGY Irology Indicators: cators (minimum of one is	s required: ch				Hydric S	Secondary Indicat	ors (minimum of two required)
Depth (i Remarks: HYDROLO Wetland Hyo Primary Indic Surface	OGY Irology Indicators: cators (minimum of one is	s required: ch	Water-Stai	ned Leaves (Bs	9)	Hydric S	Secondary Indicat X Surface Soi	ors (minimum of two required) I Cracks (B6)
Depth (i Remarks: HYDROLO Wetland Hyc Primary Indic Surface High W	OGY Irology Indicators: eators (minimum of one is b Water (A1) ater Table (A2)	s required: ch	Water-Stai Aquatic Fa	una (B13)	3)	Hydric S	Secondary Indicat X Surface Soi Drainage Pa	ors (minimum of two required) I Cracks (B6) atterns (B10)
Depth (i Remarks: HYDROLO Wetland Hyc Primary Indic Surface High W Saturat	DGY Irology Indicators: eators (minimum of one is be Water (A1) ater Table (A2) ion (A3)	s required: ch	Water-Stai Aquatic Fa True Aquat	una (B13) ic Plants (B14)		Hydric S	Secondary Indicat X Surface Soi Drainage Pa	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2)
Depth (i Remarks: HYDROL Wetland Hyc Primary Indic Surface High W Saturat Water I	DGY Irology Indicators: Exators (minimum of one is to Water (A1) ater Table (A2) ion (A3) Marks (B1)	s required: ch	Water-Stai Aquatic Fa True Aquat Hydrogen S	una (B13) ic Plants (B14) Sulfide Odor (C	1)		Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)
Depth (i Remarks: HYDROLO Wetland Hyc Primary Indic Surface High W Saturat Water I Sedime	DGY Irology Indicators: cators (minimum of one is a Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2)	s required: ch	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on	1) Living Roo		Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
Depth (i Remarks: HYDROLO Wetland Hyd Primary Indio Surface High W Saturat Water I Sedime Drift De	DGY Irology Indicators: extors (minimum of one is a Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	s required: ch	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence o	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron	1) Living Room (C4)	ts (C3)	Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Depth (i Remarks: HYDROLO Wetland Hyo Primary Indio Surface High W Saturat Water I Sedime Drift De Algal M	DGY Irology Indicators: cators (minimum of one is a Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2)	s required: ch	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence of	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on	1) Living Room (C4)	ts (C3)	Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Depth (i Remarks: HYDROLO Wetland Hyc Primary Indic Surface High W Saturat Water I Sedime Drift De Algal M Iron De	DGY Irology Indicators: eators (minimum of one is water (A1) ater Table (A2) ion (A3) Marks (B1) what Deposits (B2) eposits (B3) at or Crust (B4)		Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence c Recent Iror Thin Muck	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on of Reduced Iron on Reduction in T	1) Living Room (C4)	ts (C3)	Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Depth (i Remarks: HYDROLO Wetland Hyc Primary Indic Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat	DGY Irology Indicators: cators (minimum of one is water (A1) ater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5)	Igery (B7)	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence c Recent Iron Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in - Surface (C7)	1) Living Room (C4) Filled Soils (ts (C3)	Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Depth (i Remarks: HYDROLO Wetland Hyo Primary Indio Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparsel	DGY Irology Indicators: eators (minimum of one is water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima	Igery (B7)	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence c Recent Iron Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in Surface (C7) Vell Data (D9)	1) Living Room (C4) Filled Soils (ts (C3)	Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Depth (i Remarks: HYDROLO Wetland Hyde Surface High W Saturat Water N Sedime Drift De Algal M Iron De Inundat	Inches): OGY Irology Indicators: Eators (minimum of one is Exactors (Minimum of one	Igery (B7)	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence c Recent Iron Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in Surface (C7) Vell Data (D9) lain in Remarks	1) Living Room (C4) Filled Soils (ts (C3)	Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Depth (i Remarks: HYDROL Wetland Hyc Primary Indic Surface High W Saturat Water N Sedime Drift De Algal M Iron De Inundat Sparsel	DGY Irology Indicators: eators (minimum of one is eators (Mal) ator (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave Surations: er Present?	gery (B7) urface (B8)	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence c Recent Iron Thin Muck Gauge or V Other (Exp	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in Surface (C7) Vell Data (D9) Jain in Remarks	1) Living Room (C4) Filled Soils (ts (C3)	Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Depth (i Remarks: HYDROLO Wetland Hyde Surface High W Saturat Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Water	DGY Irology Indicators: Exators (minimum of one is to Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave Stations: er Present?	gery (B7) urface (B8) Yes No	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V Other (Exp X Depth (inche	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron Reduction in Surface (C7) Vell Data (D9) Jain in Remarks SS: N/A N/A	1) Living Room (C4) Filled Soils (ts (C3)	Secondary Indicat X Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)

Project/Site:	Northeast Corner of	County Line &	Arlington					City/Coun	nty: India	napolis/Ma	arion		Sampling Dat	e: <u>5/12/2</u>	2022
Applicant/Owner:	Kimley Horn							Sta	ite: IN		Sampling Poin	:	dp0)5	
Investigator(s):	Ben Hess & Paige E	chelberger							Section	n, Townsh	ip, Range: S23 T14N	R4E			
Landform (hillslope	e, terrace, etc.):									Loca	I relief (concave, cor	ivex, none): no	one		
Slope (%):	1%	Lat:		39	9.63737676			Long:	_		6.05999453	_	Datum: NA	AD83 UT	M16N
	ne: Treaty silty clay loam		nt slopes (ThrA)									NWI classific		ne	
	ologic conditions on the							Ye	s X	No	(If no, explain	n Remarks.)			
Are Vegetation	N	, Soil	N	, or Hydrol	oav	N sig	nificantly dis			_	al Circumstances" p		Yes X	x No	
Are Vegetation	N	, Soil	N	, or Hydrol			turally proble				, explain any answer				
	FINDINGS Atta										, explain any anonoi	, r.tomanto.,			
		CII SILE IIIA	p snowing s				Secis, IIII								
	egetation Present?			Yes	X	No_		-		pled Ar		Voo v	No		
Hydric Soil Pres Wetland Hydro				Yes	X	No_ No		_ with	IIII a vv	etland?		Yes x	No		
-	nogy i resent:			163	^	140_		•							
Remarks:															
VEGETATION	Use scientific n	ames of pl	ants.				A b = = 14 =	Daminant	1-	-l:t	1				
Tree Stratum (Plot	t cizo: 20' radius)						Absolute	Dominant Species?		dicator	Dominanaa Taat	warkahaati			
1.	i size. 30 Tadius)					_	% Cover	Species?		Status	Dominance Test	worksneet:			
2.								-			Number of Domina	ent Species			
3.								-			That Are OBL, FA			2	(A)
4.								-			That Are OBE, 176	011, 01 1710.			_'''
5.								-			Total Number of D	ominant			
·								= Total Cover			Species Across A		2	2	(B)
l								- rotal covol				· Oliata.			_(5)
Sapling/Shrub Stra	atum (Plot size: 15' radi	us)									Percent of Domina	int Species			
1.											That Are OBL, FA		100	0%	(A/B)
2.								-			,	. ,			_ ` ' '
3.															
4.											Prevalence Index	worksheet:			
5.															
								= Total Cover			Total % C	over of:	M	ultiply by:	:
								-			That Are OBL, FAC	CW, or FAC:			A/B
Herb Stratum (Plo	ot size: 5' radius)										OBL species	6%	x1 =	0.06	
1. Myosurus mini	imus						1%	No	F	ACW	FACW species	16%	x2 =	0.32	
2. Alopecurus car	rolinianus						5%	Yes	<u>F</u>	ACW	FAC species		x3 =		
3. Veronica pereg	grina						10%	Yes	F	ACW	FACU species		x4 =		
4. Ranunculus so	celeratus						2%	No		OBL	UPL species		x5 =		
5. Eleocharis obti	usa						4%	No		OBL	Column Totals:	22%	(A)	0.38	(B)
6															
7											Prevale	nce Index = B/	A =	1.73	
8								-							
9								-							
10								-			Hydrophytic Veg	etation Indica	ors:		
11															
12.												est for Hydrop		ion	
13.												nce Test is >50			
14.								-				nce Index is ≤3 logical Adaptat			4:
15.								-							ung
16.								-				emarks or on a atic Hydrophytic			١
17.											Problema	atic Hydropnytii	; vegetation	(Explain)
18.											¹ Indicators of hydr	a aail aad watk	and budralag	. munt	
19.											-			y musi	
20.							200/	Total C			be present, unless	aisturbed or p	ropiematic.		
							22%	= Total Cover							
W4-V: - 0: :	(Dist size 00) "	-\									I budanat - C				
	um (Plot size: 30' radiu	s)									Hydrophytic				
1											Vegetation	V	V N-		
2.								- Total Cause			Present?	res	X No	_	
						_		= Total Cover			1				
Domarke: /lask:-1-	nhoto numbers he	r on a canar-1	o choot \								1				
ntomarks. (modde	e photo numbers here o	i on a separat	o 31100t.)												

SOIL							Sam	pling Point: dp05
Profile Des	scription: (Describe to the	depth neede	d to document the	indicator or co	nfirm the a	bsence of	indicators.)	
Depth	Matrix		R	edox Features			_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16"	10YR 5/1	97	10YR 7/6	3	С	М	Clay Loam	
¹ Type: C=	Concentration, D=Depletion	n, RM=Reduce	d Matrix, CS=Covere	ed or Coated Sa	nd Grains.	² Locatio	n: PL=Pore Lining,	M=Matrix.
Hydric Soil	I Indicators ³ :					Test I	ndicators of Hydric	Soils:
	sol (A1)			ed Matrix (S4)				anese Masses (F12)
	Epipedon (A2)		Sandy Red					ow Dark Surface (F22)
	Histic (A3)		Stripped Ma				Other (Exp	lain in Remarks)
	ogen Sulfide (A4) fied Layers (A5)		Dark Surface	ce (S7) cky Mineral (F1				
	Muck (A10)			yed Matrix (F2)	,			
	eted Below Dark Surface (A	11)	X Depleted M					
	Dark Surface (A12)	,		Surface (F6)			³ The hydric soil ir	ndicators have been updated to
	y Mucky Mineral (S1)			ark Surface (F	7)		-	e Field Indicators of Hydric Soils
5 cm	Mucky Peat or Peat (S3)		Redox Dep	ressions (F8)			in the United	States, Version 8.0, 2016.
Restrictive	Layer (if observed):							
Type:								
Depth	(inches):					Hydric S	Soil Present?	Yes X No
	(inches):					Hydric \$	Soil Present?	Yes X No
	(inches):					Hydric \$	Soil Present?	Yes X No
	(inches):					Hydric \$	Soil Present?	Yes X No
	(inches):					Hydric \$	Soil Present?	Yes X No
Remarks:	·					Hydric S	Soil Present?	Yes X No
Remarks:	·					Hydric \$	Soil Present?	Yes X No
Remarks:	·					Hydric S	Soil Present?	Yes X No
Remarks: HYDROL Wetland Hy Primary Inc	LOGY ydrology Indicators: dicators (minimum of one is	required: chec	k all that apply)			Hydric \$		Yes X No
HYDROI Wetland Hy Primary Inc X Surface	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1)	required: chec		ned Leaves (BS))	Hydric S	Secondary Indica	
HYDROI Wetland Hy Primary Inc X Surface	LOGY ydrology Indicators: dicators (minimum of one is	required: chec		•)	Hydric \$	Secondary Indica Surface So Drainage F	ators (minimum of two required) il Cracks (B6) l'atterns (B10)
HYDROI Wetland Hy Primary Inc X Surfac High \ X Satura	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3)	required: chec	Water-Stain Aquatic Fat True Aquat	una (B13) ic Plants (B14)		Hydric S	Secondary Indica Surface So Drainage F Dry-Seaso	ators (minimum of two required) il Cracks (B6) Patterns (B10) in Water Table (C2)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Water	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1)	required: chec	Water-Stain Aquatic Fat True Aquat Hydrogen S	una (B13) ic Plants (B14) Sulfide Odor (C	1)		Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo	ators (minimum of two required) il Cracks (B6) l'atterns (B10) n Water Table (C2) urrows (C8)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Water Sedim	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2)	required: chec	Water-Stair Aquatic Fai True Aquat Hydrogen \$ Oxidized R	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on	1) Living Root		Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bu Saturation	ators (minimum of two required) il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Water Sedim Drift E	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3)	required: chec	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron	1) Living Root (C4)	es (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bu Saturation Stunted or	ators (minimum of two required) il Cracks (B6) ratterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROL Wetland Hy Primary Inc X Surfac High \ X Satura Watel Sedim Drift D X Algal	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4)	required: chec	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron n Reduction in T	1) Living Root (C4)	es (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo Saturation Stunted or X Geomorphi	ators (minimum of two required) il Cracks (B6) latterns (B10) in Water Table (C2) larrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Water Sedim Drift E X Algal Iron D	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)		Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in T Surface (C7)	1) Living Root (C4)	es (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo Saturation Stunted or X Geomorphi	ators (minimum of two required) il Cracks (B6) ratterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Water Sedim Drift C X Algal Iron D	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imag	ery (B7)	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in T Surface (C7) Vell Data (D9)	1) Living Roof (C4) Filled Soils (es (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo Saturation Stunted or X Geomorphi	ators (minimum of two required) il Cracks (B6) latterns (B10) in Water Table (C2) lurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Water Sedim Drift C X Algal Iron D	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	ery (B7)	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in T Surface (C7)	1) Living Roof (C4) Filled Soils (es (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo Saturation Stunted or X Geomorphi	ators (minimum of two required) il Cracks (B6) latterns (B10) in Water Table (C2) lurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Watel Sedim Drift E X Algal Iron D Inund Spars	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Images lely Vegetated Concave Survetions:	ery (B7) face (B8)	Water-Stair Aquatic Fai True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in T Surface (C7) Vell Data (D9) ain in Remarks	1) Living Roof (C4) Filled Soils (es (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo Saturation Stunted or X Geomorphi	ators (minimum of two required) il Cracks (B6) latterns (B10) in Water Table (C2) lurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Watel Sedim Drift L X Algal Iron D Inund. Spars Field Obse	ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imaguely Vegetated Concave Survations: ater Present?	ery (B7) face (B8) es <u>X</u> No	Water-Stain Aquatic Fai True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in 1 Surface (C7) Vell Data (D9) ain in Remarks	1) Living Roof (C4) Filled Soils (es (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo Saturation Stunted or X Geomorphi	ators (minimum of two required) il Cracks (B6) latterns (B10) in Water Table (C2) lurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Water Sedim Drift E X Algal Iron E Inunda Spars Field Obse Surface Wa Water Tabl	ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imagically Vegetated Concave Survations: ater Present? Yele Present? Y	ery (B7) face (B8) es <u>X</u> No es No	Water-Stair Aquatic Fair True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron Reduction in Surface (C7) Vell Data (D9) fain in Remarks s: 1" ss): N/A	1) Living Roof (C4) Filled Soils (rs (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo Saturation Stunted or X Geomorphi X FAC-Neutr	ators (minimum of two required) il Cracks (B6) l'atterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
HYDROL Wetland Hy Primary Inc X Surfac High V X Satura Water Sedim Drift E X Algal Iron D Inund Spars Field Obse Surface Wa Water Tabl Saturation	ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imagically Vegetated Concave Survations: ater Present? Yele Present? Y	ery (B7) face (B8) es <u>X</u> No	Water-Stair Aquatic Fair True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on if Reduced Iron in Reduction in 1 Surface (C7) Vell Data (D9) ain in Remarks	1) Living Roof (C4) Filled Soils (rs (C3)	Secondary Indica Surface So Drainage F Dry-Seasor Crayfish Bo Saturation Stunted or X Geomorphi	ators (minimum of two required) il Cracks (B6) latterns (B10) in Water Table (C2) lurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)

Project/Site:	Northeast Corner of C	County Line & Arlington				City/County:	Indianapolis/Ma	arion	Sampling Date: <u>5/12/2022</u>
Applicant/Owner:	Kimley Horn					State:	IN	Sampling Point:	dp06
Investigator(s):	Ben Hess & Paige Eig	chelberger					Section, Townshi	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):							I relief (concave, convex, none): none
Slope (%):	1%	Lat:	39.63763178	3		Long:	-86	6.06013674	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Crosby silt loam, fine-	loamy subsoil, 0 to 2 perce	nt slopes (CrA)			·		NWI clas	ssification: none
Are climatic / hydro	ologic conditions on the	site typical for this time of ye	ear?			Yes	X No	(If no, explain in Remark	(S.)
Are Vegetation	N	, Soil N	, or Hydrology	N s	ignificantly dist	_		al Circumstances" present?	Yes X No
Are Vegetation	N	, Soil N	, or Hydrology		aturally proble			, explain any answers in Remar	
		ch site map showing						, , , , , , , , , , , , , , , , , , , ,	-,
	getation Present?	on one map eneming		No			Sampled Are	•••	
Hydric Soil Pres			Yes X Yes X	No			a Wetland?		No x
Wetland Hydrol			Yes	No		Within	a welland:	163_	140 <u> </u>
Remarks:						•			
VEGETATION :	Use scientific na	ames of plants.							
					Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test workshee	et:
1									
2								Number of Dominant Species	s
3.								That Are OBL, FACW, or FA	C: 2 (A)
4.									
5								Total Number of Dominant	
						= Total Cover		Species Across All Strata:	(B)
r									
	tum (Plot size: 15' radio	ıs)						Percent of Dominant Species	
1								That Are OBL, FACW, or FA	.C: 100% (A/B)
2									
3.								Decorded to decorate to a	4.
4								Prevalence Index workshee	et:
5.						= Total Cover		Total 9/ Cover of	Multiply by
						= Total Cover		Total % Cover of: That Are OBL, FACW, or FAC	C: Multiply by: A/B
Herb Stratum (Plot	t cize: 5' radius)							OBL species	x1 =
Ranunculus ab			-		10%	No	FACW	FACW species 75%	
Alopecurus car					40%	Yes	FACW	FAC species	x3 =
Veronica pereg					25%	Yes	FACW	FACU species 6%	
Capsella bursa					5%	No	FACU	UPL species	x5 =
5. Erigeron canad	•				1%	No	FACU	Column Totals: 819	
6.									
7.								Prevalence Index	= B/A = 2.15
8.									·
9.									
10.								Hydrophytic Vegetation Inc	dicators:
11.									
12.	<u> </u>		<u> </u>					X 1-Rapid Test for Hy	drophytic Vegetation
13.								X 2-Dominance Test is	
14.								3-Prevalence Index	
15.									aptations ¹ (Provide supporting
16.									on a separate sheet)
17								Problematic Hydrop	ohytic Vegetation ¹ (Explain)
18.								1	
19								¹ Indicators of hydric soil and	
20.								be present, unless disturbed	or problematic.
					81%	= Total Cover			
	(0)	`						II to all of	
	m (Plot size: 30' radius							Hydrophytic	
1								Vegetation	
2								Present? Ye	sX_ No
						= Total Cover			
Demand of the first	abata and the f							1	
rtemarks: (Include	photo numbers here or	on a separate sneet.)							

ofile Description: (Describe to		ied to document the inc	dicator or cont	iiiiii uie al	Scriec or	indicators.)		
epth Matrix		Rede	ox Features					
nches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	marks
0-16" 10YR 5/1	100					Silt Loam		
		_						
				·				
rpe: C=Concentration, D=Deplet	ion, RM=Reduc	ed Matrix, CS=Covered	or Coated Sand	d Grains.	² Location	: PL=Pore Lining,	M=Matrix.	
ric Soil Indicators ³ :	,	, , , , , , , , , , , , , , , , , , , ,				dicators of Hydr		
Histosol (A1)		Sandy Gleyed	d Matrix (S4)			Iron-Mang	ganese Masses (F1:	2)
Histic Epipedon (A2)		Sandy Redox	(S5)				low Dark Surface (F	
Black Histic (A3)		Stripped Matr	ix (S6)			Other (Ex	plain in Remarks)	
Hydrogen Sulfide (A4)		Dark Surface	(S7)					
Stratified Layers (A5)		Loamy Mucky	Mineral (F1)					
2 cm Muck (A10)		Loamy Gleyed	d Matrix (F2)					
Depleted Below Dark Surface	(A11)	X Depleted Mate	rix (F3)					
Thick Dark Surface (A12)		Redox Dark S	Surface (F6)			³ The hydric soil	indicators have bee	n updated to
Sandy Mucky Mineral (S1)		Depleted Darl	k Surface (F7)			comply with t	the Field Indicators	of Hydric Soils
5 cm Mucky Peat or Peat (S3)		Redox Depres	ssions (F8)			in the United	States, Version 8.0), 2016.
strictive Layer (if observed):								
strictive Layer (if observed): Type:								
Type:					Hydric S	oil Present?	Yes X	No
Type: Depth (inches): marks:					Hydric S	oil Present?	Yes X	No
Type: Depth (inches): narks:					Hydric S	oil Present?	Yes X	No
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators:	is required: che	eck all that apply)			Hydric S			
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators:	is required: che	eck all that apply) Water-Stainer	d Leaves (B9)		Hydric S	Secondary Indic	eators (minimum of	
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one	is required: che	Water-Stained	` ,		Hydric S	Secondary Indic		
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1)	is required: che	,	a (B13)		Hydric S	Secondary Indic	eators (minimum of oil Cracks (B6)	two required)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	is required: che	Water-Stained Aquatic Fauna True Aquatic	a (B13)		Hydric S	Secondary Indic Surface S Drainage Dry-Seaso	eators (minimum of oil Cracks (B6) Patterns (B10)	two required)
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	is required: che	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul	a (B13) Plants (B14) fide Odor (C1)	ving Roots		Secondary Indic Surface S Drainage Dry-Seasc Crayfish E	cators (minimum of tool oil Cracks (B6) Patterns (B10) on Water Table (C2	two required)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	is required: che	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14)	-		Secondary Indic Surface S Drainage Dry-Sease Crayfish E	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2	two required)) nagery (C9)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	is required: che	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C	24)	(C3)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) of Visible on Aerial In	two required)) nagery (C9)
Popth (inches): The property of the property	is required: che	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C	24)	(C3)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial In	two required)) nagery (C9)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille	24)	(C3)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial In a Stressed Plants (Enic Position (D2)	two required)) nagery (C9)
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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)	agery (B7)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille urface (C7) Il Data (D9)	24)	(C3)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial In a Stressed Plants (Enic Position (D2)	two required)) nagery (C9)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one 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 Im Sparsely Vegetated Concave S	agery (B7)	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille urface (C7) Il Data (D9)	24)	(C3)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial In a Stressed Plants (Enic Position (D2)	two required)) nagery (C9)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Im Sparsely Vegetated Concave Seld Observations:	agery (B7) Surface (B8)	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille urface (C7) Il Data (D9) n in Remarks)	24)	(C3)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial In a Stressed Plants (Enic Position (D2)	two required)) nagery (C9)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Im Sparsely Vegetated Concave seld Observations: urface Water Present?	agery (B7) Surface (B8)	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille urface (C7) II Data (D9) n in Remarks)	24)	(C3)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial In a Stressed Plants (Enic Position (D2)	two required)) nagery (C9)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Im Sparsely Vegetated Concave Seld Observations: urface Water Present? fater Table Present?	agery (B7) Surface (B8) Yes No Yes No	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or Wel Other (Explain X Depth (inches):	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille riface (C7) II Data (D9) n in Remarks) : N/A N/A	c4) ed Soils (C	(C3) 6)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o Geomorpl X FAC-Neur	eators (minimum of a oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) a Visible on Aerial In r Stressed Plants (D nic Position (D2) tral Test (D5)	two required)) nagery (C9) D1)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Im Sparsely Vegetated Concave Seld Observations: urface Water Present? aturation Present?	agery (B7) Surface (B8)	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or Wel Other (Explain X Depth (inches):	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille riface (C7) II Data (D9) n in Remarks) : N/A N/A	c4) ed Soils (C	(C3) 6)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o	eators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial In a Stressed Plants (Enic Position (D2)	two required)) nagery (C9)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Im Sparsely Vegetated Concave Seld Observations: urface Water Present? ater Table Present?	agery (B7) Surface (B8) Yes No Yes No Yes No	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain X Depth (inches): X Depth (inches):	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille Inface (C7) II Data (D9) In in Remarks) Image: N/A Image: N/A Image: N/A	C4) ed Soils (C	(C3) 6)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o Geomorpl X FAC-Neur	eators (minimum of a oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) a Visible on Aerial In r Stressed Plants (D nic Position (D2) tral Test (D5)	two required)) nagery (C9) D1)
Type: Depth (inches):	agery (B7) Surface (B8) Yes No Yes No Yes No	Water-Stained Aquatic Fauna True Aquatic I Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain X Depth (inches): X Depth (inches):	a (B13) Plants (B14) fide Odor (C1) cospheres on Li Reduced Iron (C Reduction in Tille Inface (C7) II Data (D9) In in Remarks) Image: N/A Image: N/A Image: N/A	C4) ed Soils (C	(C3) 6)	Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o Geomorpl X FAC-Neur	eators (minimum of a oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) a Visible on Aerial In r Stressed Plants (D nic Position (D2) tral Test (D5)	two required)) nagery (C9) D1)

Project/Site:	Northeast Corner of	County Line & /	Arlington				City/Cou	inty:	Indianapolis/M	arion	8	Sampling Dat	e: <u>5/12/2</u>	2022
Applicant/Owner:	Kimley Horn						St	ate:	IN	Sampling Poin	:	dp(7	
Investigator(s):	Ben Hess & Paige Ei	chelberger						Se	ection, Townsh	nip, Range: S23 T14N	I R4E			
Landform (hillslope										al relief (concave, cor		ne		
Slope (%):	1%	Lat:		39.6	3779278		Long:			6.05966551		Datum: NA	D83 UTI	M16N
	e: Treaty silty clay loam		t slopes (ThrA)								NWI classific			
	ologic conditions on the			?			Υ	es	X No	(If no, explain	_			
Are Vegetation	N	, Soil		, or Hydrolog	y N	significantly d		_		nal Circumstances" p		Yes _>	(No	
Are Vegetation	N	, Soil		, or Hydrolog		naturally prob				l, explain any answer				
	FINDINGS Atta							ture						
	getation Present?	on one map				No			Sampled Ar	202				
Hydric Soil Pre				Yes <u> </u>		No	_		a Wetland?		Yes x	No_		
Wetland Hydro				Yes X		No	_ ''''		a Wellana.		103 <u>X</u>	_ '''		
Remarks:														
VEGETATION	Use scientific n	ames of pla	ants.			Abacluta	Dominon		Indicator	1				
Tree Stratum (Plot	t size: 30' radius)					Absolute % Cover			Indicator Status	Dominance Test	workshoot:			
1.	1 3126. 30 Taulus)					76 COVE	Species		Status	Dominance rest	worksneet.			
2.										Number of Domina	ant Species			
3.										That Are OBL, FA		2	2	(A)
4.														_` ′
5.								_		Total Number of D	ominant			
							= Total Cove	r		Species Across A	l Strata:	2	2	(B)
Sapling/Shrub Stra	atum (Plot size: 15' radi	us)								Percent of Domina	int Species			
1. Cornus drumm	nondii			<u> </u>		100%	Yes		FAC	That Are OBL, FA	CW, or FAC:	100)%	(A/B)
2														
3.														
4.										Prevalence Index	worksheet:			
5.														
						100%	= Total Cove	r		Total % C		M	ultiply by:	
										That Are OBL, FAC	CW, or FAC:			A/B
Herb Stratum (Plo	t size: 5' radius)					000/			E40	OBL species		_ x1 = _		
Carex blanda Geum vernum						60% 5%	Yes No		FACU FACU	FACW species	5% 175%	x2 = x3 =	0.10 5.25	
Agrimonia parv						5%	No No		FACW	FAC species FACU species	5%	x3 = x4 =	0.20	
Viola sororia	vinora					5%	No		FAC	UPL species	070	x5 =	0.20	
5. Toxicodendron	n radicans					10%	No		FAC	Column Totals:	185%	_ (A)	5.55	(B)
6.	, radiodrio					,				Column Foldie.	10070	_''' _	0.00	(5)
7.						 -				Prevale	nce Index = B/	Α =	3.00	
8.								_						
9.														
10.										Hydrophytic Veg	etation Indicat	ors:		
11.														
12.										1-Rapid 1	est for Hydrop	nytic Vegetat	ion	
13.										X 2-Domina	nce Test is >50)%		
14.											nce Index is ≤3			
15.										4-Morpho	logical Adaptat	ions¹ (Provid	e suppor	ting
16											emarks or on a			
17.										Problema	atic Hydrophytic	Vegetation ¹	(Explain)
18.														
19.										¹ Indicators of hydr			/ must	
20.										be present, unless	disturbed or p	roblematic.		
						85%	= Total Cove	r						
	ım (Plot size: 30' radiu	s)								Hydrophytic				
1										Vegetation		.,		
2							T			Present?	Yes	X No	_	
							= Total Cove	r						
Demande (1)	. abata anal mili									1				
kemarks: (Include	photo numbers here o	r on a separate	e sneet.)											

SOIL							Sar	mpling Point: dp07
Profile Des	cription: (Describe to the	e depth neede			onfirm the a	bsence of	indicators.)	
Depth	Matrix			ox Features	_ 1	. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type ¹	Loc ²	Texture	Remarks
0-16"	10YR 4/1	97	10YR 6/8	3	C	M	Silt Loam	
17	Occasion D. Barbin		- Matrix 00 Occased			21 (:	DI Para Linia	M. March
- , .	Concentration, D=Depletion Indicators ³ :	n, RM=Reduce	ed Matrix, CS=Covered	or Coated Sa	and Grains.		n: PL=Pore Lining, ndicators of Hydr	
Histic Black Hydro Stratif 2 cm I Deple Thick Sandy	sol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) Muck (A10) ted Below Dark Surface (A Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3)	11)	Sandy Gleyed Sandy Redox Stripped Matr Dark Surface Loamy Mucky Loamy Gleye X Depleted Mat Redox Dark S Depleted Dar Redox Depre	(S5) ix (S6) (S7) Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F6)			Very Shal Other (Ex	lanese Masses (F12) low Dark Surface (F22) colain in Remarks) indicators have been updated to the Field Indicators of Hydric Soils States, Version 8.0, 2016.
Type: Depth	Layer (if observed): (inches):			0.000		Hydric S	Soil Present?	Yes X No
Type: Depth Remarks:	(inches):					Hydric S		
Type: Depth Remarks:	(inches):					Hydric S		
Type: Depth Remarks: HYDROL Wetland Hy	(inches): OGY vdrology Indicators:	required: che	ck all that apply)	0.000		Hydric S	Soil Present?	Yes X No
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind	(inches):	required: che	ck all that apply) Water-Staine		3)	Hydric S	Soil Present?	
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surface	(inches): OGY /drology Indicators: dicators (minimum of one is	required: che	11.77	d Leaves (BS	9)	Hydric S	Soil Present? Secondary Indic	Yes X No
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High \	(inches): LOGY /drology Indicators: dicators (minimum of one is be Water (A1)	required: che	Water-Staine	d Leaves (BS a (B13)	9)	Hydric S	Secondary Indic	Yes X Noators (minimum of two required)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfact High \ X Satura	Cinches): LOGY Adrology Indicators: Idicators (minimum of one is one Water (A1) Water Table (A2)	required: che	Water-Staine Aquatic Faun	d Leaves (Bs a (B13) Plants (B14)		Hydric S	Secondary Indic Surface S Drainage Dry-Seaso	Yes X Noators (minimum of two required) oil Cracks (B6) Patterns (B10)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High \ X Satura Water	(inches): LOGY Adrology Indicators: dicators (minimum of one is be Water (A1) Water Table (A2) ation (A3)	required: che	Water-Staine Aquatic Faun True Aquatic	d Leaves (B9 a (B13) Plants (B14) fide Odor (C	1)		Secondary Indic Surface S Drainage Dry-Seasc Crayfish E	ators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim	(inches): LOGY /drology Indicators: dicators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1)	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su	d Leaves (BS a (B13) Plants (B14) Ifide Odor (C cospheres on	1) Living Root		Secondary Indic Surface S Drainage Dry-Sease Crayfish E Saturation	ators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High \ X Satura Water Sedim Drift D	(inches): LOGY /drology Indicators: dicators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2)	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	d Leaves (BS a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron	1) Living Root (C4)	es (C3)	Secondary Indices Surface Solution Drainage Dry-Sease Crayfish Esaturation Stunted on X Geomorph	ators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High \ X Satura Water Sedim Drift D Algal Iron D	(inches): LOGY Adrology Indicators: Idicators (minimum of one is one Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Reposits (B5)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su	d Leaves (BS a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T irface (C7)	1) Living Root (C4)	es (C3)	Secondary Indices Surface Solution Drainage Dry-Sease Crayfish Esaturation Stunted on X Geomorph	ators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) To Stressed Plants (D1)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High \ X Satura Water Sedim Drift D Iron D Inunda	(inches): LOGY /drology Indicators: dicators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	ery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F	d Leaves (BS a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4) Filled Soils (es (C3)	Secondary Indices Surface S Drainage Dry-Sease Crayfish E Saturation Stunted on X Geomorph	ators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High \ X Satura Water Sedim Drift D Iron D Inunda	(inches): LOGY Adrology Indicators: Idicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imagely Vegetated Concave Sur	ery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We	d Leaves (BS a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4) Filled Soils (es (C3)	Secondary Indices Surface S Drainage Dry-Sease Crayfish E Saturation Stunted on X Geomorph	ators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High \ X Satura Water Sedim Drift D Algal Iron D Inunda Spars	(inches): LOGY Adrology Indicators: dicators (minimum of one is one water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imagely Vegetated Concave Survations:	ery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We	d Leaves (BS a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T irface (C7) Il Data (D9) n in Remarks	1) Living Root (C4) Filled Soils (es (C3)	Secondary Indices Surface S Drainage Dry-Sease Crayfish E Saturation Stunted on X Geomorph	ators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind X Surfac High \ X Satura Water Sedim Drift D Algal Iron D Inunda Spars	(inches): LOGY Adrology Indicators: dicators (minimum of one is bee Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imagely Vegetated Concave Suitervations: ater Present? Y	ery (B7) rface (B8)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	d Leaves (BS a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T irface (C7) Il Data (D9) n in Remarks	1) Living Root (C4) Filled Soils (es (C3)	Secondary Indices Surface S Drainage Dry-Sease Crayfish E Saturation Stunted on X Geomorph	ators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)

Project/Site:	Northeast Corner of	County Line & Arlington				City/County:	Indianapolis/Ma	arion	8	Sampling Date	e: 5/12/202	22
Applicant/Owner:	Kimley Horn					State:	: IN	Sampling Point		dp0	8	
Investigator(s):	Ben Hess & Paige E	ichelberger					Section, Townshi	p, Range: S23 T14N	R4E			
Landform (hillslope	, terrace, etc.):	-						I relief (concave, con		one		
Slope (%):	3%	Lat:	39.6377485	53		Long:	-86	6.05937598	_	Datum: NA	D83 UTM1	16N
Soil Map Unit Name	e: Treaty silty clay loam	n, 0 to 1 percent slopes (Th	rA)			·			NWI classific	ation: no	ne	
Are climatic / hydro	logic conditions on the	site typical for this time of	year?			Yes	X No	(If no, explain	n Remarks.)			
Are Vegetation	N	, Soil N	, or Hydrology	N :	significantly dist	_		al Circumstances" pr		Yes X	. No	
Are Vegetation	N	, Soil N	, or Hydrology		naturally proble		(If needed,	explain any answers	in Remarks.)			
	FINDINGS Atta	ach site map showin										
	getation Present?		Yes	No.			Sampled Are	93				
Hydric Soil Pres			Yes	No		-	a Wetland?		Yes	No	X	
Wetland Hydrol			Yes	No		•						
Remarks:												
VEGETATION	Use scientific r	names of plants.			Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test	vorksheet:			
Celtis occidenta					70%	Yes	FAC					
2. Carya ovata				-	10%	No	FACU	Number of Domina	nt Species			
3.								That Are OBL, FAC		2	<u>: </u>	(A)
4.												
5.								Total Number of D	ominant			
					80%	= Total Cover		Species Across All	Strata:	4	((B)
	tum (Plot size: 15' rad							Percent of Domina				
Cornus drumm					10%	No	FAC	That Are OBL, FAC	CW, or FAC:	50	%((A/B)
2. Celtis occidenta					5%	No No	FAC					
3. Lonicera maaci	KII				90%	Yes	UPL	Barrelon en la derr				
4. 5.							-	Prevalence Index	worksneet:			
5.					105%	= Total Cover		Total % Co	over of:	Mı	ultiply by:	
					10376	= Total Cover		That Are OBL, FAC				A/B
Herb Stratum (Plot	t size: 5' radius)							OBL species	,	x1 =		
Carex blanda	· -		_		10%	Yes	FAC	FACW species	-	x2 =		
2. Geum vernum				-	5%	No	FACU	FAC species	100%	x3 =	3.00	
3. Lonicera maac	kii				10%	Yes	UPL	FACU species	15%	x4 =	0.60	
4. Toxicodendron	radicans				5%	No	FAC	UPL species	100%	x5 =	5.00	
5.								Column Totals:	215%	(A)	8.60	(B)
6.												
7								Prevale	nce Index = B/	A =	4.00	
8												
9						·						
10.								Hydrophytic Vege	tation Indicat	ors:		
11.								1 Danid T	act for Useden-	hytic Vocatet	ion	
12. 13.									est for Hydropl nce Test is >50		1011	
14.									nce Index is ≤3			
15.						·			ogical Adaptat		e supportin	g
16.								l — '	emarks or on a			•
17.									tic Hydrophytic			
18.					-							
19.				-				¹ Indicators of hydri	soil and wetla	and hydrology	/ must	
20.				_				be present, unless	disturbed or p	roblematic.		
					30%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radiu	is)						Hydrophytic				
1								Vegetation				
2								Present?	Yes	No X	<u> </u>	
						= Total Cover						
								1				
Remarks: (Include	pnoto numbers here of	or on a separate sheet.)										
L												

rofile Descr	ntion: (Describe to the	denth needs	d to document the indicator or co	onfirm the sh	isence of in	dicators 1		
epth	Matrix	e deptii neede	Redox Features	Jillilli lile ab	Selice Of III	uicators.)		
nches)	Color (moist)	%	Color (moist) %	Type ¹	Loc ²	Texture	Re	emarks
			Color (moist) 76	Турс				marks
0-16"	10YR 4/2	100				Silt Loam		
	_							
Tuno: C Co	noontration D. Donlatio	- DM Boduco	d Matrix, CS=Covered or Coated Sa	and Crains	21 continu	DI Doro Lining	M Motrix	
ydric Soil In		i, Kivi=Reduce	d Matrix, CS=Covered or Coated Sa	and Grains.		PL=Pore Lining, icators of Hydric		
Histosol			Sandy Clayed Matrix (S4)		rest inu	•	anese Masses (F1	2)
	, ,		Sandy Gleyed Matrix (S4)		-		•	•
	pipedon (A2)		Sandy Redox (S5)		-		ow Dark Surface (F	-22)
Black Hi	,		Stripped Matrix (S6)		-	Other (Exp	lain in Remarks)	
	n Sulfide (A4)		Dark Surface (S7)					
	Layers (A5)		Loamy Mucky Mineral (F1)	•				
2 cm Mu	, ,		Loamy Gleyed Matrix (F2)					
	Below Dark Surface (A	11)	Depleted Matrix (F3)			<u>. </u>		
	rk Surface (A12)		Redox Dark Surface (F6)			,	ndicators have bee	•
	ucky Mineral (S1)		Depleted Dark Surface (F	7)			ne Field Indicators	-
5 cm Mu	cky Peat or Peat (S3)		Redox Depressions (F8)			in the United	States, Version 8.0	0, 2016.
estrictive La	yer (if observed):							
	iyei (ii obaci veu).							
Type:	iyer (ii observed).							
Type: Depth (in					Hydric Soi	I Present?	Yes	No
Type:	ches):				Hydric Soi	I Present?	Yes	No
Type:	ology Indicators:							
Type:	ches):	required: chec	k all that apply)			Secondary Indica	ators (minimum of	
Type:	ology Indicators:	required: chec	k all that apply) Water-Stained Leaves (BS)		Secondary Indica		
Type:	ches): OGY ology Indicators: ators (minimum of one is	required: chec		9)		Secondary Indica	ators (minimum of	
Type:	ology Indicators: ators (minimum of one is Water (A1) ter Table (A2)	required: chec	Water-Stained Leaves (BS	,		Secondary Indica Surface So Drainage F	ators (minimum of bil Cracks (B6)	two required)
Type: Depth (in emarks: IYDROLO Vetland Hydi Primary Indica Surface High Wa Saturatio	ology Indicators: ators (minimum of one is Water (A1) ter Table (A2)	required: chec	Water-Stained Leaves (B9 Aquatic Fauna (B13)	,		Secondary Indica Surface So Drainage F Dry-Seaso	ators (minimum of bil Cracks (B6) Patterns (B10)	two required)
Type: Depth (in emarks:	ches): OGY ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3)	required: chec	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14)	:1)		Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2	two required)
Type: Depth (in emarks:	OGY Ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1)	required: chec	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C	:1) n Living Roots		Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8)	two required)
Type: Depth (in emarks: IYDROLO Vetland Hydi Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep	ches): OGY Ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2)	required: chec	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on	i1) n Living Roots n (C4)	- - - - (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir	two required)
Type: Depth (in emarks: HYDROLO Vetland Hydi Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma	ology Indicators: stors (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3)	required: chec	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron	i1) n Living Roots n (C4)	- - - - (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I	two required)
Type:	ches): OGY ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5)		Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7)	i1) n Living Roots n (C4)	- - - - (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ators (minimum of oil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2)	two required)
Type:	ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag	ery (B7)	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Gauge or Well Data (D9)	of) a Living Roots a (C4) Tilled Soils (C	- - - - (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ators (minimum of oil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2)	two required)
Type: Depth (in emarks: IYDROLC Vetland Hydi Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	ology Indicators: stors (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag	ery (B7)	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7)	of) a Living Roots a (C4) Tilled Soils (C	- - - - (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ators (minimum of oil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2)	two required)
Type:	ches): OGY ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial Image Vegetated Concave Su	ery (B7) rface (B8)	Water-Stained Leaves (BS) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks	of) a Living Roots a (C4) Tilled Soils (C	- - - - (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ators (minimum of oil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2)	two required)
Type:	ches): OGY ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Su attions: r Present? Y	ery (B7) rface (B8)	Water-Stained Leaves (BS) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) C Depth (inches): N/A	of) a Living Roots a (C4) Tilled Soils (C	- - - - (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ators (minimum of oil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2)	two required)
Type: Depth (in emarks: IYDROLC Vetland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Surface Water Vater Table F	ches): OGY ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) asis (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag Vegetated Concave Su attions: r Present? Y	ery (B7) rface (B8) es No>	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks Depth (inches): N/A Depth (inches): N/A	n Living Roots n (C4) Tilled Soils (C	(C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) In Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) magery (C9) D1)
Type: Depth (in emarks: IYDROLO Vetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Sield Observa Surface Water Vater Table F Saturation Pre	ches): OGY ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) asis (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Su attions: r Present? Present? Y	ery (B7) rface (B8)	Water-Stained Leaves (BS) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) C Depth (inches): N/A Depth (inches): N/A	n Living Roots n (C4) Tilled Soils (C	- - - - (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of oil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2)	two required)
Type: Depth (in emarks: HYDROLC Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water Water Table F Saturation Pre (includes capi	ches): OGY Ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Su Intions: ar Present? Present? Y Sent? Y Illary fringe)	ery (B7) rface (B8) es No> es No>	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Reduction in Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks C Depth (inches): N/A Depth (inches): N/A	tal) n Living Roots n (C4) Tilled Soils (C	(C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) In Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) magery (C9) D1)
Type: Depth (in emarks: IYDROLC Vetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water Water Table F Saturation Pre- Gincludes capi	ches): OGY Ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Su Intions: ar Present? Present? Y Sent? Y Illary fringe)	ery (B7) rface (B8) es No> es No>	Water-Stained Leaves (BS) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) C Depth (inches): N/A Depth (inches): N/A	tal) n Living Roots n (C4) Tilled Soils (C	(C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) In Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) magery (C9) D1)
Type: Depth (in emarks: IYDROLC Vetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water Water Table F Saturation Pre- Gincludes capi	ches): OGY Ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Su Intions: ar Present? Present? Y Sent? Y Illary fringe)	ery (B7) rface (B8) es No> es No>	Water-Stained Leaves (BS Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C Oxidized Rhizospheres on Presence of Reduced Iron Reduction in Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks C Depth (inches): N/A Depth (inches): N/A	tal) n Living Roots n (C4) Tilled Soils (C	(C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) In Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) magery (C9) D1)

Project/Site:	Northeast Corner of	County Line & Arlington	on		City/Count	y: Indianapolis/N	Marion	Sampling I	Date: 5/12/2	022
Applicant/Owner:	Kimley Horn				State	e: IN	Sampling Point:		dp09	
Investigator(s):	Ben Hess & Paige Ei	chelberger				Section, Towns	hip, Range: S23 T14N R4E			
Landform (hillslope							cal relief (concave, convex,			
Slope (%):	2%	Lat:	39.63820	6813	Long:	='	86.05779524		NAD83 UTN	л16N
	ne: Crosby silt loam, fine								none	
	ologic conditions on the				Yes	X No	(If no, explain in Re			
Are Vegetation	N	, Soil N		N significantly d			mal Circumstances" present		X No	
Are Vegetation	N	, Soil N		N naturally prob			d, explain any answers in R			
				locations, transects, in				/		
	egetation Present?	on one map one	Yes X	No		Sampled A	roa			
Hydric Soil Pre			Yes X	No No	_	n a Wetland		es <u>x</u> No		
Wetland Hydro			Yes X	No No	_ ******	n a Wellana		.5 <u>x</u> 110		
Remarks:										
VEGETATION	Use scientific n	ames of plants.		Absolute	Dominant	Indicator	1			
Tree Stratum (Plot	t size: 30' radius)			% Cover		Status	Dominance Test work	sheet:		
1.	. S.EO. OO Tuuluaj				Opecies?	Gialus	_ Sommance rest WORK	Jiiget.		
2.				-	_		- Number of Dominant Sp	pecies		
3.						-	That Are OBL, FACW, of		2	(A)
4.							-	-		<u>-</u> · ′
5.							Total Number of Domina	ant		
					= Total Cover		Species Across All Stra		2	(B)
							_			-
Sapling/Shrub Stra	atum (Plot size: 15' radi	(sı					Percent of Dominant Sp	ecies		
1							That Are OBL, FACW, o	or FAC:	100%	(A/B)
2							_			
3							_			
4.							Prevalence Index work	sheet:		
5.							_			
					= Total Cover		Total % Cover		Multiply by:	
							That Are OBL, FACW, o			A/B
Herb Stratum (Plo				450/		0.01	OBL species	65% x1 =	0.65	
Ranunculus so Eleocharis obti				45% 20%	Yes Yes	OBL OBL	FACW species	15% x2 =	0.30	
Alopecurus cal				5%	No	FACW	FAC species FACU species	x3 = x4 =		
Veronica pered				10%	No No	FACW	UPL species	x5 =		
5.	9,,,,,			1070			Column Totals:	80% (A)	0.95	(B)
6.								(1)	0.00	(2)
7.						-	- Prevalence li	ndex = B/A =	1.19	
8.						-	-			
9.					_					
10.					_		Hydrophytic Vegetation	n Indicators:		
11.					_		-			
12.				- · ·			X 1-Rapid Test fo	or Hydrophytic Vege	etation	
13.				- · ·			X 2-Dominance T	est is >50%		
14.				- · ·			X 3-Prevalence I	ndex is ≤3.0 ¹		
15.							4-Morphologica	al Adaptations ¹ (Pro	vide support	ing
16.								ks or on a separate		
17.							Problematic H	ydrophytic Vegetati	on ¹ (Explain))
18.							_			
19							Indicators of hydric soil	and wetland hydro	logy must	
20							be present, unless distu	irbed or problemation	D.	
				80%	= Total Cover					
							- [
	um (Plot size: 30' radiu	<u> </u>					Hydrophytic			
1							Vegetation			
2							Present?	Yes X No		
					= Total Cover					
Remarks: (Include	e photo numbers here of	on a separate sheet	i.)							

SOIL	ha ta tha danth naa	dad to decument the	indicator or co	nfirm tha	haanaa a		npling Point: dp09
Profile Description: (Descri	itrix		edox Features	miim the a	ibsence o	indicators.)	
(inches) Color (moi		Color (moist)	%	Type ¹	Loc ²	_ Texture	Remarks
0-16" 10YR 5/1		10YR 5/6	4	С	M	Clay Loam	Remarks
0-16 1018 5/	90	1018 5/6			IVI	Clay Loam	
¹ Type: C=Concentration, D=	Depletion, RM=Redu	ced Matrix, CS=Covere	ed or Coated Sa	and Grains.		n: PL=Pore Lining,	
lydric Soil Indicators ³ :					Test I	ndicators of Hydri	
Histosol (A1)			red Matrix (S4)				anese Masses (F12)
Histic Epipedon (A2)		Sandy Red					ow Dark Surface (F22)
Black Histic (A3)		Stripped Ma	,			Other (Exp	olain in Remarks)
Hydrogen Sulfide (A4)		Dark Surfac					
Stratified Layers (A5) 2 cm Muck (A10)			ky Mineral (F1) /ed Matrix (F2)				
Depleted Below Dark Su	ırface (A11)	X Depleted M					
Thick Dark Surface (A12			Surface (F6)			³ The hydric soil i	ndicators have been updated to
Sandy Mucky Mineral (S	,		ark Surface (F7	7)			ne Field Indicators of Hydric Soils
5 cm Mucky Peat or Pea	•		ressions (F8)	,		. ,	States, Version 8.0, 2016.
estrictive Layer (if observe							
	uj.						
Type:					Hydric 9	Soil Present?	Yes X No
Depth (inches):emarks:					Hydric	Soil Present?	Yes <u>X</u> No
Depth (inches):emarks:					Hydric \$	Soil Present?	Yes X No
Depth (inches):emarks:					Hydric \$	Soil Present?	Yes X No
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato		nock all that apply)			Hydric \$		
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum			ned Leaves (R9	0	Hydric \$	Secondary Indica	ators (minimum of two required)
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1)		Water-Stair	ned Leaves (B9)	Hydric \$	Secondary Indica	ators (minimum of two required) bil Cracks (B6)
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2)		Water-Stair Aquatic Far	una (B13))	Hydric \$	Secondary Indica Surface So Drainage F	ators (minimum of two required) bil Cracks (B6) Patterns (B10)
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1)		Water-Stain Aquatic Fan True Aquat	,	,	Hydric \$	Secondary Indica Surface So Drainage F	ators (minimum of two required) bil Cracks (B6)
Depth (inches): emarks: EYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3)	of one is required: ch	Water-Stair Aquatic Far True Aquat Hydrogen S	una (B13) ic Plants (B14)	1)		Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B	ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2)
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1)	of one is required: ch	Water-Stair Aquatic Fai True Aquat Hydrogen \$ Oxidized R	una (B13) ic Plants (B14) Sulfide Odor (C	1) Living Roo		Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation	ators (minimum of two required) bil Cracks (B6) Patterns (B10) in Water Table (C2) urrows (C8)
Depth (inches): emarks: PYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is required: ch	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence o	una (B13) ic Plants (B14) Sulfide Odor (C ² nizospheres on	1) Living Roo (C4)	ts (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	ators (minimum of two required) bil Cracks (B6) Patterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	of one is required: ch	Water-Stain Aquatic Fai True Aquat Hydrogen S Oxidized R Presence of Recent Iror	una (B13) ic Plants (B14) Sulfide Odor (C ² hizospheres on f Reduced Iron	1) Living Roo (C4)	ts (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4)	of one is required: ch	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence o Recent Iror Thin Muck	una (B13) ic Plants (B14) Sulfide Odor (C' hizospheres on f Reduced Iron i Reduction in T	1) Living Roo (C4)	ts (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches): emarks: EYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5)	of one is required: ch	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C' hizospheres on f Reduced Iron n Reduction in T Surface (C7)	1) Living Roo (C4) Tilled Soils (ts (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae	of one is required: ch	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C' hizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9)	1) Living Roo (C4) Tilled Soils (ts (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor	of one is required: ch	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C' hizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9) ain in Remarks	1) Living Roo (C4) Tilled Soils (ts (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches): emarks: EYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations:	of one is required: chemical chemical lmagery (B7) acave Surface (B8)	Water-Stair Aquatic Fai True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9) ain in Remarks s): 2"	1) Living Roo (C4) Tilled Soils (ts (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches): emarks: EYDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Con Field Observations: Surface Water Present?	erial Imagery (B7) hocave Surface (B8) Yes X No	Water-Stair Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9) ain in Remarks s): 2"	Living Roo (C4) Tilled Soils (ts (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)

Project/Site:	Northeast Corner of C	County Line & Arlington				City/County:	Indianapolis/Ma	arion	Sampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn					State:	IN	Sampling Point:	dp10
Investigator(s):	Ben Hess & Paige Eig	chelberger					Section, Townshi	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):							I relief (concave, convex, none): none
Slope (%):	1%	Lat:	39.63982065	5		Long:	-86	6.05721341	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loam,	0 to 1 percent slopes (ThrA	.)			· - <u></u>		NWI clas	ssification: none
Are climatic / hydro	logic conditions on the	site typical for this time of ye	ar?			Yes	X No	(If no, explain in Remark	s.)
Are Vegetation	N	, Soil N	, or Hydrology	N s	ignificantly dist	· -		al Circumstances" present?	Yes X No
Are Vegetation	N	, Soil N	, or Hydrology		aturally proble			, explain any answers in Remar	
		ch site map showing						, , , , , , , , , , , , , , , , , , , ,	•
	getation Present?	on one map eneming		No	1100010, 1111		Sampled Ar	•••	
Hydric Soil Pres			Yes X Yes X	No			a Wetland?		x No
Wetland Hydrol			Yes X	No		. *************************************	a welland:	163_	<u> </u>
Remarks:									
VEGETATION	Use scientific na	ames of plants.			A1 1	B	I. P. d.	T	
Tree Stratum (Plot	eize: 30' radius)				Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test workshee	••
1.	size. 30 Tadius)			•	76 COVEI	Species :	Status	Dominance rest workshee	
2.						. ———		Number of Dominant Species	
3.								That Are OBL, FACW, or FA	
4.						· ———			
5.								Total Number of Dominant	
						= Total Cover		Species Across All Strata:	2 (B)
Sapling/Shrub Stra	tum (Plot size: 15' radio	ıs)						Percent of Dominant Species	3
1		·						That Are OBL, FACW, or FA	C: 100% (A/B)
2									
3.									
4				,				Prevalence Index workshee	t:
5.									
						= Total Cover		Total % Cover of:	Multiply by:
Harb Stratum (Dlai	t oizo, El radiua)							That Are OBL, FACW, or FAC OBL species 279	
Herb Stratum (Plot					5%	No	FACW	FACW species 7%	
Phalaris arundi Eleocharis obtu					10%	Yes	OBL	FAC species 17%	x3 = 0.14
Eleocharis palu Eleocharis palu					15%	Yes	OBL	FACU species	x4 =
Alisma subcord					2%	No	OBL	UPL species	x5 =
Bidens frondos					2%	No	FACW	Column Totals: 34%	
6.	-					· 			(=)
7.						· ———		Prevalence Index	= B/A = 1.21
8.									
9.									
10.								Hydrophytic Vegetation Inc	licators:
11.									
12.								X 1-Rapid Test for Hyd	drophytic Vegetation
13.								X 2-Dominance Test is	
14.								X 3-Prevalence Index	
15.									aptations ¹ (Provide supporting
16.									on a separate sheet)
17.								Problematic Hydrop	hytic Vegetation ¹ (Explain)
18.				,				1	
19.								¹ Indicators of hydric soil and	
20								be present, unless disturbed	or problematic.
					34%	= Total Cover			
W4-17- 2:	(Dist.)							Thirdwoods (C)	
-	m (Plot size: 30' radius		<u></u>					Hydrophytic	
1						·		Vegetation	s Y No
2						= Total Cover		Present? Ye	s_X_ No
						= TOTAL COVER			
Remarks: (Include	photo numbers here or	on a separate sheet \						 	
(moldde	F510 .10.11.2010 11016 01	a coparato oricoti,							

SOIL							Samı	oling Point: dp10
Profile Des	cription: (Describe to the	depth neede	d to document the i	indicator or co	nfirm the a	bsence of	indicators.)	
Depth	Matrix		Re	edox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16"	10YR 3/1	96	10YR 5/6	4	С	М	Clay Loam	
	-						- 	
¹ Type: C=	Concentration, D=Depletion	n, RM=Reduce	d Matrix, CS=Covere	ed or Coated Sa	nd Grains.	² Location	n: PL=Pore Lining, N	1=Matrix.
Hydric Soil	Indicators ³ :	•	·			Test I	ndicators of Hydric	Soils:
Histos	sol (A1)		Sandy Gley	red Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic	Epipedon (A2)		Sandy Red				Very Shallo	w Dark Surface (F22)
	Histic (A3)		Stripped Ma				Other (Expla	ain in Remarks)
	gen Sulfide (A4)		Dark Surface					
	ied Layers (A5)			ky Mineral (F1)				
	Muck (A10) _{rted} Below Dark Surface (A ⁻	11)	Loamy Gley Depleted M	/ed Matrix (F2)				
	Dark Surface (A12)	11)	X Redox Dark	` '			³ The hydric soil in	dicators have been updated to
	/ Mucky Mineral (S1)			ark Surface (F7	7)			e Field Indicators of Hydric Soils
	Mucky Peat or Peat (S3)			ressions (F8)	,			tates, Version 8.0, 2016.
Restrictive	Layer (if observed):		<u> </u>					
Type:	Layer (ii observeu).							
Dopui	(inches):					Hydric S	Soil Present?	Yes X No
	(inches):					Hydric \$	Soil Present?	Yes X No
Remarks:	<u> </u>					Hydric \$	Soil Present?	Yes X No
Remarks:	_OGY					Hydric S	Soil Present?	Yes X No
Remarks: HYDROL Wetland Hy	_OGY ydrology Indicators:	required: chec	k all that apply)			Hydric S		
Remarks: HYDROL Wetland Hy Primary Ind	_OGY	required: chec		ned Leaves (BS)	Hydric S	Secondary Indicat	Yes X No ors (minimum of two required)
HYDROL Wetland Hy Primary Ind X Surface	LOGY ydrology Indicators: dicators (minimum of one is	required: chec		•)	Hydric S	Secondary Indicat	ors (minimum of two required)
Remarks: HYDROL Wetland Hy Primary Ind X Surfac High N	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1)	required: chec	Water-Stair Aquatic Fau	•)	Hydric S	Secondary Indicat Surface Soi	ors (minimum of two required) I Cracks (B6)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2)	required: chec	Water-Stair Aquatic Fau True Aquat	una (B13)		Hydric S	Secondary Indicat Surface Soi	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3)	required: chec	Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri	una (B13) ic Plants (B14) Sulfide Odor (C nizospheres on	1) Living Root		Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim Drift D	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3)	required: chec	Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri	una (B13) ic Plants (B14) Sulfide Odor (C	1) Living Root		Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim Drift D X Algal I	JOGY Adrology Indicators: Sidicators (minimum of one is one water (A1) Water Table (A2) Sation (A3) In Marks (B1) In Marks (B1) In Marks (B2) Deposits (B3) Mat or Crust (B4)	required: chec	Water-Stair Aquatic Fat True Aquat Hydrogen S Oxidized RI Presence o	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron i Reduction in T	1) Living Root (C4)	es (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) risible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim Drift D X Algal I	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)		Water-Stair Aquatic Fai True Aquat Hydrogen S Oxidized RI Presence o Recent Iror	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron Reduction in T Surface (C7)	1) Living Root (C4)	es (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) risible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim Drift D X Algal I Iron D	Jogy Jordology Indicators: Jordology Indica	ery (B7)	Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9)	1) Living Roof (C4) Tilled Soils (es (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) risible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim Drift D X Algal I Iron D	LOGY ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	ery (B7)	Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron Reduction in T Surface (C7)	1) Living Roof (C4) Tilled Soils (es (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) risible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim Drift D X Algal I Iron D Inunda Spars	JOGY Adrology Indicators: Adicators (minimum of one is one water (A1) Water Table (A2) Aution (A3) In Marks (B1) In Marks (B1) In Marks (B3) Mat or Crust (B4) Deposits (B5) Aution Visible on Aerial Images The Marks (B5) Aution Visible on Aerial Images The Marks (B4) The M	ery (B7)	Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9)	1) Living Roof (C4) Tilled Soils (es (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) risible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROL Wetland Hy Primary Ind X Surface High V X Satura Water Sedim Drift D Iron D Inunda Spars Field Obse	Jogy ydrology Indicators: dicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) hent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imagely Vegetated Concave Suitarvations: ater Present?	ery (B7) face (B8) es <u>X</u> No	Water-Stair Aquatic Fat True Aquat Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9) ain in Remarks s):1"	1) Living Roof (C4) Tilled Soils (es (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) risible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim Drift D Inunda Spars Field Obsel Surface Wa Water Tabl	Jogy Idicators (minimum of one is ce Water (A1) Water Table (A2) Idicators (minimum of one is ce Water (A1) Water Table (A2) Idicators (B3) Water Table (B2) Idicators (B3) Idicators (B1) Idicators (B3) Marks (B1) Idicators (B2) Idicators (B3) Idicators (B3) Idicators (B3) Idicators (B4) Idicators (B4) Idicators (B4) Idicators (B5) Idicators (B5) Idicators (B4) Idicators (B4)	ery (B7) face (B8) es <u>X</u> No es No	Water-Stair Aquatic Fat True Aquat Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck S Gauge or W Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9) ain in Remarks s): 1" s): N/A	Living Roof (C4) Filled Soils (rs (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) I Position (D2) I Test (D5)
Remarks: HYDROL Wetland Hy Primary Ind X Surfac High V X Satura Water Sedim Drift D Iron D Inunda Spars Field Obset Surface Wa Water Tabl Saturation I	Jogy Idicators (minimum of one is ce Water (A1) Water Table (A2) Idicators (minimum of one is ce Water (A1) Water Table (A2) Idicators (B3) Water Table (B2) Idicators (B3) Idicators (B1) Idicators (B3) Marks (B1) Idicators (B2) Idicators (B3) Idicators (B3) Idicators (B3) Idicators (B4) Idicators (B4) Idicators (B4) Idicators (B5) Idicators (B5) Idicators (B4) Idicators (B4)	ery (B7) face (B8) es <u>X</u> No	Water-Stair Aquatic Fat True Aquat Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl	una (B13) ic Plants (B14) Sulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7) Vell Data (D9) ain in Remarks s): 1" s): N/A	Living Roof (C4) Filled Soils (rs (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) risible on Aerial Imagery (C9) Stressed Plants (D1)

Project/Site:	Northeast Corner of	County Line	& Arlington				City/County:	Indianapolis/M	arion	Sampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn						State:	: IN	Sampling Point:	dp11
Investigator(s):	Ben Hess & Paige E	ichelberger						Section, Townsh	nip, Range: S23 T14N R4E	
Landform (hillslope,	terrace, etc.):							Loca	al relief (concave, convex, none):	none
Slope (%):	1%	Lat:		39.6401	1022		Long:	-8	6.05674374	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loar	n, 0 to 1 per	cent slopes (Thra	A)					NWI class	sification: none
Are climatic / hydrol	ogic conditions on the	site typical	for this time of y	ear?		·	Yes	X No	(If no, explain in Remarks	s.)
Are Vegetation	N	, Soil	N	, or Hydrology	N	significantly dist	turbed?	Are "Norm	nal Circumstances" present?	Yes X No
Are Vegetation	N	, Soil	N	, or Hydrology	N	naturally proble	matic?	(If needed	d, explain any answers in Remark	
SUMMARY OF	FINDINGS Atta	ach site n	nap showing	sampling point	locations, t	_ transects. imr	ortant featur	es. etc.		
	getation Present?			Yes x		No.		Sampled Ar	rea	
Hydric Soil Pres	•			Yes	_	No X		a Wetland?		No
Wetland Hydrold				Yes X		No	•			<u> </u>
Remarks: VEGETATION -	Use scientific ı	names of	plants.							
						Absolute	Dominant	Indicator		
Tree Stratum (Plot						% Cover	Species?	Status	Dominance Test worksheet	:
Quercus palusti Fravinus panns						20%	Yes	FACW	Number of Dessires t Carrier	
Fraxinus penns Ulmus americar						30% 10%	Yes No	FACW	Number of Dominant Species That Are OBL, FACW, or FAC	
Ulmus americar Celtis occidenta						10%	No No	FACW	mat Are ODL, FACW, OF FAC	C: <u>5</u> (A)
5.	1113					1076		FAC	Total Number of Dominant	
						70%	= Total Cover		Species Across All Strata:	5 (B)
						1070	_ 10141 00101		openie riores riii enata.	(2)
Sapling/Shrub Strat	um (Plot size: 15' rac	lius)							Percent of Dominant Species	
Celtis occidenta		-				5%	Yes	FAC	That Are OBL, FACW, or FAC	
2. Acer saccharinu	um					10%	Yes	FACW		
3.						_				
4.									Prevalence Index worksheet	t:
5.										
						15%	= Total Cover		Total % Cover of:	Multiply by:
									That Are OBL, FACW, or FAC	
Herb Stratum (Plot				=					OBL species 10%	
Symphyotrichur						65%	Yes	FAC	FACW species 70%	
Boehmeria cylin	ndrica					10%	No	OBL	FAC species 80%	
3.							·		FACU species	x4 =
4. 5.						-			UPL species Column Totals: 160%	x5 =(A) 3.90 (B)
6.						-			Column rotals. 1007	<u>(A)</u> 3.90 (B)
7.						_	· ——		Prevalence Index =	= B/A = 2.44
8.									Trovalorico index	
9.										
10.							·		Hydrophytic Vegetation Ind	licators:
11.										
12.									1-Rapid Test for Hyd	rophytic Vegetation
13.									X 2-Dominance Test is	>50%
14.									3-Prevalence Index is	
15.									4-Morphological Ada	ptations ¹ (Provide supporting
16.									data in Remarks or o	
17.									Problematic Hydroph	hytic Vegetation ¹ (Explain)
18.									1	
19.									¹ Indicators of hydric soil and w	
20									be present, unless disturbed of	or problematic.
						75%	= Total Cover			
1	m (Plot size: 30' radio	ns)				_			Hydrophytic Vegetation	. V. N.
2							= Total Cover		Present? Yes	s_X_ No
							= TOTAL COVER			
Remarks: (Include	photo numbers here o	or on a sepa	rate sheet.)						-	

SOIL								ampling Point: dp11
	cription: (Describe to the	e depth need			onfirm the a	bsence of	indicators.)	
Depth	Matrix			ox Features	- 1	. 2	_	
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-16"	10YR 2/2	98	10YR 7/8	2	C	M	Clay Loam	
	-							
	Concentration, D=Depletion	n, RM=Reduc	ced Matrix, CS=Covered	or Coated Sa	and Grains.		n: PL=Pore Lining	,
•	Indicators ³ :					Test I	ndicators of Hyd	
	sol (A1)		Sandy Gleyed					ganese Masses (F12)
	Epipedon (A2)		Sandy Redox					allow Dark Surface (F22)
	Histic (A3)		Stripped Matr				Other (Ex	xplain in Remarks)
·	gen Sulfide (A4)		Dark Surface					
	ied Layers (A5) Muck (A10)		Loamy Mucky Loamy Gleye)			
	ted Below Dark Surface (A	11)	Depleted Mat					
	Dark Surface (A12)	,	Redox Dark S				³ The hydric soil	I indicators have been updated to
	Mucky Mineral (S1)		Depleted Dar		7)		-	the Field Indicators of Hydric Soils
	Mucky Peat or Peat (S3)		Redox Depre		,			d States, Version 8.0, 2016.
Restrictive	Laver (if observed):							
	Layer (if observed):							
Type:	Layer (if observed):					Hydric S	Soil Present?	Yes_ No X
Type: Depth						Hydric S	Soil Present?	Yes NoX
Type: Depth						Hydric S	Soil Present?	Yes NoX
Type: Depth						Hydric \$	Soil Present?	Yes NoX
Type: Depth						Hydric S	Soil Present?	Yes NoX
Type: Depth						Hydric S	Soil Present?	Yes NoX_
Type: Depth Remarks:	(inches):					Hydric S	Soil Present?	YesNoX
Type: Depth Remarks: HYDROL Wetland Hy	(inches): OGY vdrology Indicators:					Hydric S		
Type: Depth Remarks: HYDROL Wetland Hy Primary Inc	(inches): OGY /drology Indicators: licators (minimum of one is	required: che	11.77			Hydric S	Secondary Indi	cators (minimum of two required)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surface	(inches): LOGY /drology Indicators: licators (minimum of one is the Water (A1)	required: che	X Water-Staine	·	9)	Hydric S	Secondary Indi	cators (minimum of two required) Soil Cracks (B6)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surfac High \	(inches): LOGY rdrology Indicators: licators (minimum of one is be Water (A1) Nater Table (A2)	required: cho	X Water-Staine Aquatic Faun	a (B13)	9)	Hydric S	Secondary Indi Surface S	cators (minimum of two required) Soil Cracks (B6) Patterns (B10)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura	(inches): LOGY Idrology Indicators: Ilicators (minimum of one is be Water (A1) Water Table (A2) ation (A3)	required: che	X Water-Staine Aquatic Faun True Aquatic	a (B13) Plants (B14)		Hydric S	Secondary Indi Surface S Drainage Dry-Seas	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surfac High \ X Satura Water	(inches): LOGY /drology Indicators: licators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1)	required: che	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su	a (B13) Plants (B14) Ifide Odor (C	1)		Secondary Indi Surface S Drainage Dry-Seas Crayfish	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surfac High V X Satura Water Sedim	(inches): LOGY /drology Indicators: licators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1) hent Deposits (B2)	required: che	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) Ifide Odor (C zospheres on	1) Living Root		Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surfac High \ X Satura Water Sedim Drift D	(inches): LOGY /drology Indicators: licators (minimum of one is be Water (A1) Vater Table (A2) ation (A3) Marks (B1) hent Deposits (B2) Deposits (B3)	required: che	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) Ifide Odor (C zospheres on Reduced Iron	1) Living Root (C4)	es (C3)	Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surfac High \ X Satura Water Sedim Drift D Algal	(inches): LOGY /drology Indicators: licators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1) hent Deposits (B2) Deposits (B3) Mat or Crust (B4)	required: cho	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F	a (B13) Plants (B14) Ifide Odor (C zospheres on Reduced Iron Reduction in T	1) Living Root (C4)	es (C3)	Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Solic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift E Algal Iron D	(inches): LOGY Adrology Indicators: licators (minimum of one is be Water (A1) Nater Table (A2) ation (A3) Marks (B1) Inent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)		X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4)	es (C3)	Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift D Algal Iron D	(inches): LOGY /drology Indicators: licators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1) hent Deposits (B2) Deposits (B3) Mat or Crust (B4)	ery (B7)	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F	a (B13) Plants (B14) Iffide Odor (C cospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4) Filled Soils (es (C3)	Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Solic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift E Algal Iron D Inunda Spars	(inches): LOGY Indrology Indicators: Idicators (minimum of one is be Water (A1) Water Table (A2) Indicators (B3) Indicators (B3) Indicators (B4) Indicators	ery (B7)	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Iffide Odor (C cospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4) Filled Soils (es (C3)	Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Solic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift E Algal Iron D Inunda Spars	(inches): LOGY Adrology Indicators: Ilicators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1) Inent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imagely Vegetated Concave Survations:	ery (B7) face (B8)	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Iffide Odor (C cospheres on Reduced Iron Reduction in T urface (C7) Ill Data (D9) n in Remarks	1) Living Root (C4) Filled Soils (es (C3)	Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Solic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift D Inunda Spars Field Obse Surface Wa	(inches): LOGY Idrology Indicators: Ilicators (minimum of one is be Water (A1) Water Table (A2) ation (A3) Marks (B1) Ident Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ation Visible on Aerial Imagely Vegetated Concave Survations: ater Present?	ery (B7) rface (B8) es No	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in 1 urface (C7) Ill Data (D9) n in Remarks : N/A	1) Living Root (C4) Filled Soils (es (C3)	Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Solic Position (D2)
Type: Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift E Algal Iron D Inunda Spars	(inches): LOGY Idrology Indicators: Ilicators (minimum of one is ce Water (A1) Water Table (A2) ation (A3) Marks (B1) Ident Deposits (B2) Deposits (B3) Mat or Crust (B4) Ideposits (B5) ation Visible on Aerial Imagely Vegetated Concave Survations: ater Present? Yellogy Treations: All Presents (A1)	ery (B7) face (B8)	X Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Iffide Odor (C cospheres on Reduced Iron Reduction in T urface (C7) Ill Data (D9) n in Remarks : N/A N/A	1) Living Root (C4) Filled Soils (rs (C3)	Secondary Indi Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	cators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) Solic Position (D2)

Project/Site:	Northeast Corner of	County Line & Arlington				City/County:	Indianapolis/Ma	arion	8	Sampling Date:	5/12/2022
Applicant/Owner:	Kimley Horn					State:	IN	Sampling Point:		dp12	
Investigator(s):	Ben Hess & Paige E	ichelberger					Section, Townshi	p, Range: S23 T14N	R4E		
Landform (hillslope,	, terrace, etc.):							I relief (concave, con		nvex	
Slope (%):	2%	Lat:	39.6400817	6		Long:		6.05668292		Datum: NAD	83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loam	n, 0 to 1 percent slopes (Thr	A)						NWI classific	ation: none)
Are climatic / hydro	logic conditions on the	site typical for this time of y	ear?			Yes	X No	(If no, explain i	n Remarks.)	-	
Are Vegetation	N	, Soil N	, or Hydrology	N s	significantly dis	-		al Circumstances" pre		Yes X	No
Are Vegetation	N	, Soil N	, or Hydrology		naturally proble			explain any answers			· ·
		ich site map showing						, ,	,		
	getation Present?	ion one map enewing		No			Sampled Are	••			
Hydric Soil Pres			Yes X Yes	No		-	a Wetland?	ea .	Yes	No x	,
Wetland Hydrol			Yes	No		_ within	a welland:		163	_ 110	<u> </u>
Remarks:	-9,					-					
VEGETATION	Use scientific r	names of plants									
		iames of plants.			Absolute	Dominant	Indicator				
Tree Stratum (Plot					% Cover	Species?	Status	Dominance Test v	vorksheet:		
Gleditsia triacai	nthos				25%	Yes	FACU				
2. Ulmus rubra					15%	No	FAC	Number of Domina			
Celtis occidenta	alis				20%	Yes	FAC	That Are OBL, FAC	W, or FAC:	4	(A)
4. Acer rubrum					20%	Yes	FAC				
5								Total Number of Do			
					80%	= Total Cover		Species Across All	Strata:	7	(B)
Sapling/Shrub Strat	tum (Plot size: 15' rad	ius)						Percent of Domina	nt Species		
Lonicera maaci	kii				85%	Yes	UPL	That Are OBL, FAC	W, or FAC:	57%	(A/B)
2. Cornus drumm	ondii				5%	No	FAC				<u></u>
3.						· ·					
4.								Prevalence Index	vorksheet:		
5.											
					90%	= Total Cover		Total % Co	ver of:	Mult	iply by:
								That Are OBL, FAC	W, or FAC:		A/B
Herb Stratum (Plot	size: 5' radius)		_					OBL species		x1 =	
Osmorhiza long	gistylis				10%	Yes	FACU	FACW species	10%	x2 =	0.20
2. Impatiens cape					10%	Yes	FACW	FAC species	80%	x3 =	2.40
3. Alliaria petiolata					20%	Yes	FAC	FACU species	40%	x4 =	1.60
4. Geum vernum					5%	No	FACU	UPL species	85%	x5 =	4.25
5								Column Totals:	215%	(A)	8.45 (B)
6.											
7						· ——		Prevaler	ice Index = B/	A =3	3.93
8.											
9. 10.						· ———		Undranhutia Vasa	tation Indiant		
11.						· ———		Hydrophytic Vege	tation muicai	iors:	
						· ——		1 Papid T	act for Hudron	hytia Vagatatia	•
13.						. ———		X 2-Dominar		hytic Vegetation	•
14.						· ——		l —	nce Index is ≤3		
15.								l		ions ¹ (Provide :	supporting
16.						· ——				separate shee	
17.						·				C Vegetation ¹ (E	•
18.									, , ,	•	. ,
19.								¹ Indicators of hydric	soil and wetla	and hydrology r	nust
20.								be present, unless			
					45%	= Total Cover					
L											
Woody Vine Stratur	m (Plot size: 30' radiu	is)						Hydrophytic			
1.	_ `							Vegetation			
2.						· ——		Present?	Yes	X No	
						= Total Cover			_		-
						-					
Remarks: (Include	photo numbers here of	r on a separate sheet.)		_			_	•		_	

rofile Description: (Desc	ribe to the depth no	eded to docume	ent the indicator or	r confirm the a	bsence of	indicators.)	
Depth N	Matrix		Redox Feature	es			
inches) Color (m	noist) %	Color (mois	st) %	Type ¹	Loc ²	Texture	Remarks
0-16" 10YR	3/1 100					Silt Loam	
Type: C=Concentration, [D=Depletion, RM=Re	duced Matrix, CS=	-Covered or Coated	Sand Grains.	² Location	: PL=Pore Lining, N	M=Matrix.
ydric Soil Indicators ³ :	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				dicators of Hydric	
Histosol (A1)		Sar	ndy Gleyed Matrix (S	64)			nese Masses (F12)
Histic Epipedon (A2)		Sar	ndy Redox (S5)			Very Shallo	w Dark Surface (F22)
Black Histic (A3)		Stri	pped Matrix (S6)			Other (Expl	ain in Remarks)
Hydrogen Sulfide (A4))	Dar	rk Surface (S7)			· <u></u>	
Stratified Layers (A5)		Loa	amy Mucky Mineral ((F1)			
2 cm Muck (A10)		Loa	amy Gleyed Matrix (F	F2)			
Depleted Below Dark			oleted Matrix (F3)			_	
Thick Dark Surface (A	.12)		dox Dark Surface (F			³ The hydric soil in	dicators have been updated to
Sandy Mucky Mineral			oleted Dark Surface	, ,		comply with the	e Field Indicators of Hydric Soils
5 cm Mucky Peat or P	eat (S3)	Red	dox Depressions (F8	3)		in the United S	States, Version 8.0, 2016.
3 cm wacky r eat or r							
Restrictive Layer (if obser	ved):						
estrictive Layer (if obser	ved):						
estrictive Layer (if obser	ved):				Hydric S	oil Present?	Yes NoX
estrictive Layer (if obser Type: Depth (inches): emarks:	ved):	_ 			Hydric S	oil Present?	Yes NoX
Restrictive Layer (if obserting Type: Depth (inches): Demarks:					Hydric S	oil Present?	Yes NoX
Restrictive Layer (if obserting to be serting to be sertin	itors:	shook all that any			Hydric S		
Restrictive Layer (if obserting type: Depth (inches): emarks: PyDROLOGY Vetland Hydrology Indicators (minimumostics)	itors:		• •	(RO)	Hydric S	Secondary Indicat	ors (minimum of two required)
Primary Indicators (Main Marks) Surface Water (A1)	itors: m of one is required:	Wa	ter-Stained Leaves	(B9)	Hydric S	Secondary Indicat	ors (minimum of two required) I Cracks (B6)
Restrictive Layer (if obsertype: Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicators (minimus) Surface Water (A1) High Water Table (A2)	itors: m of one is required:	War	ter-Stained Leaves uatic Fauna (B13)	. ,	Hydric S	Secondary Indicat Surface Soi	cors (minimum of two required) I Cracks (B6) atterns (B10)
Restrictive Layer (if obserting Type: Depth (inches): Emarks: IYDROLOGY Vetland Hydrology Indicator (minimuman Surface Water (A1) High Water Table (A2) Saturation (A3)	itors: m of one is required:	War Aqu True	ter-Stained Leaves uatic Fauna (B13) e Aquatic Plants (B	14)	Hydric S	Secondary Indicar Surface Soi Drainage Pa	cors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2)
Restrictive Layer (if obserting to the content of t	ntors: m of one is required:	Wai Aqu True Hyd	ter-Stained Leaves uatic Fauna (B13) e Aquatic Plants (B4 drogen Sulfide Odor	14) (C1)		Secondary Indicate Surface Soi Drainage Pa	cors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)
Restrictive Layer (if obserting to perform the content of the cont	ntors: m of one is required:	Wai Aqu Truu Hyd	uatic Fauna (B13) e Aquatic Plants (B' drogen Sulfide Odor dized Rhizospheres	14) (C1) on Living Roots		Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \	tors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9)
Restrictive Layer (if obserty Type: Depth (inches): Emarks: IYDROLOGY Wetland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	itors: m of one is required:)	Wa' Aqu Truc Hyd Oxic	uter-Stained Leaves uatic Fauna (B13) e Aquatic Plants (B ² drogen Sulfide Odor dized Rhizospheres esence of Reduced I	14) (C1) on Living Roots ron (C4)	s (C3)	Secondary Indicate Surface Soi Drainage Part Dry-Season Crayfish Burtan Naturation Naturation Stunted or S	tors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Primary Indicators (Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4)	itors: m of one is required:)	Wa' Aqu Truc Hyd Oxic Pre:	tter-Stained Leaves uatic Fauna (B13) e Aquatic Plants (B1 drogen Sulfide Odor dized Rhizospheres esence of Reduced Incent Iron Reduction	14) (C1) on Living Root: ron (C4) in Tilled Soils (G	s (C3)	Secondary Indicate Surface Soi Drainage Poi Dry-Season Crayfish But Saturation Voice Stunted or Signification	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Primary Indicators (Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ntors: m of one is required:) 2)	Wai Aqu Aqu Trui Hyd Oxii Pre: Rec Thir	uatic Fauna (B13) e Aquatic Plants (B4 drogen Sulfide Odor dized Rhizospheres esence of Reduced In cent Iron Reduction in Muck Surface (C7	14) (C1) con Living Roots ron (C4) in Tilled Soils (C	s (C3)	Secondary Indicate Surface Soi Drainage Part Dry-Season Crayfish Burtan Naturation Naturation Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
estrictive Layer (if obser Type: Depth (inches): emarks: PYDROLOGY /etland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A	ntors: m of one is required:) 2) 4) Aerial Imagery (B7)	War Aqu Truu Hyd Oxio Pre: Rec Thir	uatic Fauna (B13) e Aquatic Plants (B' drogen Sulfide Odor dized Rhizospheres esence of Reduced Incent Iron Reduction in Muck Surface (C7 uge or Well Data (D)	14) (C1) con Living Roots ron (C4) in Tilled Soils (C) 9)	s (C3)	Secondary Indicate Surface Soi Drainage Poi Dry-Season Crayfish But Saturation Voice Stunted or Signification	cors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) //isible on Aerial Imagery (C9) Stressed Plants (D1)
Primary Indicators (Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated C	ntors: m of one is required:) 2) 4) Aerial Imagery (B7)	War Aqu Truu Hyd Oxio Pre: Rec Thir	uatic Fauna (B13) e Aquatic Plants (B4 drogen Sulfide Odor dized Rhizospheres esence of Reduced In cent Iron Reduction in Muck Surface (C7	14) (C1) con Living Roots ron (C4) in Tilled Soils (C) 9)	s (C3)	Secondary Indicate Surface Soi Drainage Poi Dry-Season Crayfish But Saturation Voice Stunted or Signification	cors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) //isible on Aerial Imagery (C9) Stressed Plants (D1)
Primary Indicators (Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated C Type: Depth (inches): Depth (in	ntors: m of one is required:) 2) 4) Aerial Imagery (B7) oncave Surface (B8)	War Aqu Truu Hyd Oxid Pre: Rec Thir Gau	uatic Fauna (B13) e Aquatic Plants (B ² drogen Sulfide Odor dized Rhizospheres esence of Reduced le cent Iron Reduction in Muck Surface (C7 uge or Well Data (Di aer (Explain in Rema	14) (C1) con Living Roots ron (C4) in Tilled Soils (C) 9)	s (C3)	Secondary Indicate Surface Soi Drainage Poi Dry-Season Crayfish But Saturation Voice Stunted or Signification	cors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) //isible on Aerial Imagery (C9) Stressed Plants (D1)
estrictive Layer (if obser Type: Depth (inches): emarks: PYDROLOGY Vetland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Coield Observations: Surface Water Present?	ntors: m of one is required:) 2) Aerial Imagery (B7) oncave Surface (B8) Yes N	War Aqu Truu Hyd Oxid Pres Rec Thir Gau Oth	uatic Fauna (B13) e Aquatic Plants (B' drogen Sulfide Odor dized Rhizospheres esence of Reduced Incent Iron Reduction in Muck Surface (C7 uge or Well Data (Di er (Explain in Rema	14) (C1) con Living Roots ron (C4) in Tilled Soils (C) 9)	s (C3)	Secondary Indicate Surface Soi Drainage Poi Dry-Season Crayfish But Saturation Voice Stunted or Signification	cors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) //isible on Aerial Imagery (C9) Stressed Plants (D1)
estrictive Layer (if obser Type: Depth (inches): emarks: PYDROLOGY Vetland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Collected Water Present? Vater Table Present?	tors: m of one is required:) 2) Aerial Imagery (B7) oncave Surface (B8) Yes N Yes N	Wai	uatic Fauna (B13) e Aquatic Plants (B' drogen Sulfide Odor dized Rhizospheres esence of Reduced In cent Iron Reduction in Muck Surface (C7 uge or Well Data (Di ier (Explain in Rema	14) (C1) con Living Roots ron (C4) in Tilled Soils (C) 9) arks)	s (C3)	Secondary Indicate Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation N Stunted or S Geomorphic FAC-Neutra	cors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) Il Test (D5)
rype: Depth (inches): Depth (inches): Demarks: Property (inches): Demarks: Demarks	tors: m of one is required:) 2) Aerial Imagery (B7) oncave Surface (B8) Yes N Yes N	Wai	uatic Fauna (B13) e Aquatic Plants (B' drogen Sulfide Odor dized Rhizospheres esence of Reduced Incent Iron Reduction in Muck Surface (C7 uge or Well Data (Di er (Explain in Rema	14) (C1) con Living Roots ron (C4) in Tilled Soils (C) 9) arks)	s (C3)	Secondary Indicate Surface Soi Drainage Poi Dry-Season Crayfish But Saturation Voice Stunted or Signification	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Restrictive Layer (if obsertype: Depth (inches): emarks: IYDROLOGY Vetland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A	ttors: m of one is required:) 2) Aerial Imagery (B7) oncave Surface (B8) Yes N Yes N Yes N	Wai	ter-Stained Leaves uatic Fauna (B13) e Aquatic Plants (B' drogen Sulfide Odor dized Rhizospheres esence of Reduced le cent Iron Reduction in Muck Surface (C7 uge or Well Data (Di er (Explain in Remains) h (inches): N/A h (inches): N/A	14) (C1) s on Living Roots ron (C4) in Tilled Soils (C) 9) arks) Wetland	s (C3) C6)	Secondary Indicate Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation N Stunted or S Geomorphic FAC-Neutra	cors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)

Project/Site:	Northeast Corner of C	County Line & Arlington				City/County:	Indianapolis/Ma	arion	S	ampling Date: 5	/12/2022
Applicant/Owner:	Kimley Horn					State:	IN	Sampling Point:		dp13	
Investigator(s):	Ben Hess & Paige Eig	chelberger					ection, Townsh	ip, Range: S23 T14N	R4E		
Landform (hillslope		. .						al relief (concave, conv		ne	
Slope (%):	1%	Lat:	39.64082918			Long:		6.05468009	,,- <u></u>	Datum: NAD83	R UTM16N
		0 to 1 percent slopes (Thr							NWI classifica		
		site typical for this time of ye				Yes	Y No.	(If no, explain ir		110110	
				NI .	nianificantly dist	_				Von V N	lo.
Are Vegetation	N	, Soil N	, or Hydrology		significantly dist			al Circumstances" pre		Yes X N	
Are Vegetation	<u>N</u>	, Soil N	, or Hydrology		naturally probler			, explain any answers	in Remarks.)		
		ch site map showing	sampling point loca	tions, tra	ansects, imp	ortant feature	es, etc.				
	getation Present?		Yes x	No		Is the	Sampled Ar	ea			
Hydric Soil Pres			Yes x	No		within	a Wetland?		Yes x	No	_
Wetland Hydrol	logy Present?		Yes x	No							
Remarks: VEGETATION	Use scientific na	ames of plants.									
					Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test w	orksheet:		
1.											
2.								Number of Dominar	t Species		
3.								That Are OBL, FAC	W, or FAC:	1	(A)
4.											
5.								Total Number of Do	minant		
						= Total Cover		Species Across All	Strata:	1	(B)
								'			 ``´
Sapling/Shrub Strat	tum (Plot size: 15' radiu	ıs)						Percent of Dominan	t Species		
1.								That Are OBL, FAC	•	100%	(A/B)
2.									,		(1 - 7
3.											
4								Prevalence Index w	orksheet:		
5.								Trevalence macx w	ornoncet.		
0.						= Total Cover		Total % Co	ver of	Multipl	v bv:
						- Total Cover		That Are OBL, FAC		ividitipi	A/B
Herb Stratum (Plot	t size: 5' radius)							OBL species	5%	x1 =	0.05
Packera glabel			•		15%	No	FACW	FACW species	95%		1.90
Alopecurus car					60%	Yes	FACW	FAC species	10%		0.30
Hordeum pusill					10%	No	FAC	FACU species		x4 =	
Veronica pereg					15%	No	FACW	UPL species		x5 =	
5. Ranunculus sc					5%	No	OBL	Column Totals:	110%		2.25 (B)
6. Solidago gigani					5%	No	FACW			_ (, ,	(=)
7.								Prevalen	ce Index = B/A	\ = 2.0	5
8.								1 TOVAICH	oc macx = b//		
9.											
10.								Hydrophytic Veget	ation Indicate	ore:	
11.								Trydrophlytic reget	ation malout	J. J.	
								Y 1-Panid To	st for Hydroph	ytic Vegetation	
13.								X 2-Dominan			
14.								x 3-Prevalen			
										.u ons ¹ (Provide su	pporting
15.											
16.										separate sheet)	
17.								Problemat	ic mydropriylic	Vegetation ¹ (Ex	piairi)
18.								10. 15. 16. 17. 17.	9 1	. 11 - 1-1-1	
19.								¹ Indicators of hydric			St
20								be present, unless of	disturbed or pr	oblematic.	
					110%	= Total Cover					
r											
Woody Vine Stratu	m (Plot size: 30' radius							Hydrophytic			
1								Vegetation			
2								Present?	Yes >	< No	
1						= Total Cover					
Remarks: (Include	photo numbers here or	on a separate sheet.)									
1											

SOIL							Sar	npling Point: dp13
Profile Des	cription: (Describe to the	he depth need	ded to document the	indicator or co	onfirm the a	bsence of	indicators.)	
Depth	Matrix			edox Features			,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3"	10YR 2/1	100	·				Silt Loam	
3-16"	10YR 4/1	98	10YR 5/6			M	Silt Loam	
							·	
				_				-
	-			_			· ———	
								
¹ Type: C=	Concentration, D=Depletion	on RM-Reduc	ced Matrix CS-Covers	ad or Coated S	and Grains	² Location	n: PL=Pore Lining,	M-Matrix
	Indicators ³ :	on, rawi–raedua	Bed Matrix, OD=OOVER	d of Coaled Of	and Orams.		ndicators of Hydri	
•	sol (A1)		Sandy Glev	ed Matrix (S4)			•	anese Masses (F12)
	Epipedon (A2)		Sandy Red					ow Dark Surface (F22)
	Histic (A3)		Stripped M					plain in Remarks)
Hydro	gen Sulfide (A4)		Dark Surfa	ce (S7)				
Stratif	ied Layers (A5)		Loamy Mud	cky Mineral (F1)			
2 cm l	Muck (A10)		Loamy Gle	yed Matrix (F2)				
X Deple	ted Below Dark Surface (A	A11)	X Depleted M					
_	Dark Surface (A12)			k Surface (F6)			•	ndicators have been updated to
	Mucky Mineral (S1)			ark Surface (F	7)			he Field Indicators of Hydric Soils
5 cm l	Mucky Peat or Peat (S3)		Redox Dep	ressions (F8)			in the United	States, Version 8.0, 2016.
Restrictive	Layer (if observed):							
Type:								
Depth	(inches):					Hydric \$	Soil Present?	Yes <u>X</u> No
Depth Temarks:	<u></u>					Hydric \$	Soil Present?	Yes <u>X</u> No
Depth temarks:	LOGY					Hydric S	Soil Present?	Yes X No
Depth emarks:	OGY	is required; ch	ock all that apply)			Hydric \$		
Depth emarks: HYDROL Wetland Hy Primary Ind	OGY rdrology Indicators: icators (minimum of one i	is required: ch		ned Leaves (B	3)	Hydric S	Secondary Indic	ators (minimum of two required)
Depth emarks: IYDROL Vetland Hy Primary Ind Surface	LOGY rdrology Indicators: icators (minimum of one ince Water (A1)	is required: ch	Water-Stai	ned Leaves (BS	9)	Hydric S	Secondary Indic	ators (minimum of two required) oil Cracks (B6)
Depth emarks: HYDROL Vetland Hy Primary Ind Surfac High \	OGY rdrology Indicators: icators (minimum of one icators (A1) Vater Table (A2)	is required: ch	Water-Stai Aquatic Fa	una (B13)		Hydric S	Secondary Indic Surface So Drainage I	ators (minimum of two required) bil Cracks (B6) Patterns (B10)
Depth emarks: HYDROL Wetland Hy Primary Ind Surfac High \ X Satura	LOGY rdrology Indicators: icators (minimum of one ince Water (A1)	is required: ch	Water-Stai Aquatic Fa True Aquat	·		Hydric \$	Secondary Indic Surface So Drainage I Dry-Seaso	ators (minimum of two required) oil Cracks (B6)
Depth emarks: IYDROL Vetland Hy Primary Ind Surfac High \ X Satura Water	rdrology Indicators: licators (minimum of one ince Water (A1) Water Table (A2) lation (A3)	is required: ch	Water-Stai Aquatic Fa True Aquat Hydrogen S	una (B13) ic Plants (B14)	1)		Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B	ators (minimum of two required) bil Cracks (B6) Patterns (B10) on Water Table (C2)
Depth emarks: HYDROL Vetland Hy Primary Ind Surfac High V X Satura Water Sedim	LOGY rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ation (A3) Marks (B1)	is required: chi	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R	una (B13) ic Plants (B14) Sulfide Odor (C	1) Living Roo		Secondary Indic Surface Si Drainage I Dry-Seasc Crayfish B	ators (minimum of two required) bil Cracks (B6) Patterns (B10) bin Water Table (C2) currows (C8)
Depth emarks: HYDROL Vetland Hy Primary Ind Surfac High \ X Satura Water Sedim Drift D	LOGY rdrology Indicators: licators (minimum of one increase (A1) Vater Table (A2) lation (A3) Marks (B1) lent Deposits (B2)	is required: ch	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence of	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or	1) Living Room (C4)	es (C3)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or	ators (minimum of two required) bil Cracks (B6) Patterns (B10) bin Water Table (C2) burrows (C8) Visible on Aerial Imagery (C9)
Depth emarks: IYDROL Vetland Hy Primary Ind Surfac High \ X Satura Water Sedim Drift □ Algal	LOGY rdrology Indicators: icators (minimum of one ice Water (A1) Vater Table (A2) ation (A3) Marks (B1) Jent Deposits (B2) Deposits (B3)	is required: ch	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence of	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or if Reduced Iron	1) Living Room (C4)	es (C3)	Secondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or X Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) by Water Table (C2) burrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Depth Depth Demarks: HYDROL Wetland Hy Primary Ind Surfac High \ X Satura Water Sedim Drift D Algal Iron D	LOGY rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ation (A3) Marks (B1) Ident Deposits (B2) Deposits (B3) Mat or Crust (B4)		Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence C Recent Iron Thin Muck	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or of Reduced Iror on Reduction in	1) Living Room (C4)	es (C3)	Secondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or X Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) bic Position (D2)
Depth Pemarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift D Algal Iron D	rdrology Indicators: licators (minimum of one in the Water (A1) Water Table (A2) lation (A3) Marks (B1) lent Deposits (B2) leposits (B3) Mat or Crust (B4) leposits (B5)	agery (B7)	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence C Recent Iron Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or of Reduced Iror on Reduction in Surface (C7)	1) Living Room (C4) Filled Soils (es (C3)	Secondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or X Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) bic Position (D2)
Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift D Algal Iron D	LOGY rdrology Indicators: icators (minimum of one ice Water (A1) Vater Table (A2) ation (A3) Marks (B1) Ident Deposits (B2) Ideposits (B3) Mat or Crust (B4) Ideposits (B5) Ident Oliver (B5) Ident Oliver (B5) Ident Oliver (B6) Ident Oliver (B6	agery (B7)	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence C Recent Iron Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or of Reduced Iror on Reduction in Surface (C7) Vell Data (D9)	1) Living Room (C4) Filled Soils (es (C3)	Secondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or X Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) bic Position (D2)
Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift D Inunda Spars Field Obse	LOGY rdrology Indicators: icators (minimum of one ice Water (A1) Vater Table (A2) ation (A3) Marks (B1) Ident Deposits (B2) Ident Deposits (B3) Mat or Crust (B4) Idenosits (B5) Ideno Visible on Aerial Imagely Vegetated Concave Servations:	agery (B7)	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence C Recent Iron Thin Muck Gauge or V	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or of Reduced Iror on Reduction in Surface (C7) Vell Data (D9) lain in Remarks	1) Living Room (C4) Filled Soils (es (C3)	Secondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or X Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) bic Position (D2)
Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift D Inunda Spars Field Obse	LOGY Idrology Indicators: Idicators (minimum of one ince Water (A1) Water Table (A2) Idition (A3) Marks (B1) Ident Deposits (B2) Ideposits (B3) Mat or Crust (B4) Ideposits (B5) Idition Visible on Aerial Imagely Vegetated Concave Servations: Inter Present?	agery (B7) urface (B8)	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or V Other (Exp	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or of Reduced Iror on Reduction in Surface (C7) Vell Data (D9) Jain in Remarks	1) Living Room (C4) Filled Soils (es (C3)	Secondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or X Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) bic Position (D2)
Depth Remarks: HYDROL Wetland Hy Primary Ind Surface High \ X Satura Water Sedim Drift D Iron D Inunda Spars Field Obse Surface Wa	LOGY rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ation (A3) Marks (B1) Ident Deposits (B2) Ideposits (B3) Mat or Crust (B4) Ideposits (B5) Ident Deposits (B5) Ident Order (B4) Ident Order (B4	agery (B7) urface (B8) Yes No	Water-Stai Aquatic Fa True Aquat Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or V Other (Exp X Depth (inche	una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or of Reduced Iror on Reduction in Surface (C7) Vell Data (D9) Jain in Remarks	1) Living Room (C4) Filled Soils (rs (C3)	Secondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or X Geomorph	ators (minimum of two required) bil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) bic Position (D2)

Project/Site:	Northeast Corner of 0	County Line & Arlington				City/County:	Indianapolis/Ma	arion	s	ampling Date: 5/	12/2022
Applicant/Owner:	Kimley Horn					State:	IN	Sampling Point:		dp14	
Investigator(s):	Ben Hess & Paige Ei	chelberger					Section, Townsh	ip, Range: S23 T14N	R4E		
Landform (hillslope		. .						al relief (concave, conv		ne	
Slope (%):	1%	Lat:	39.64150265			Long:		6.05451685	,, - <u></u>	Datum: NAD83	UTM16N
		, 0 to 1 percent slopes (Thr						0.00 10 1000	NWI classifica		0
		site typical for this time of y				Yes	Y No.	(If no, explain i		110110	
				NI é	ianificantly dist	· -				Voc V No	
Are Vegetation	N	, Soil N	, or Hydrology		significantly dist			al Circumstances" pre		Yes X No	'
Are Vegetation	<u>N</u>	, Soil N	, or Hydrology		naturally probler			, explain any answers	in Remarks.)		
		ch site map showing	sampling point loca	ations, tra	insects, imp	ortant featur	es, etc.				
	getation Present?		Yes x	No		Is the	Sampled Ar	ea			
Hydric Soil Pres			Yes	No		within	a Wetland?		Yes	Nox	_
Wetland Hydrol	ogy Present?		Yes	No	X						
Remarks: VEGETATION	Use scientific n	ames of plants.									
Tara Charles (Dist	-i 20! di)				Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30 radius)				% Cover	Species?	Status	Dominance Test v	orksheet:		
1								North an of Danis			
2								Number of Dominar	•	•	(4)
3								That Are OBL, FAC	W, or FAC:	2	(A)
4											
5								Total Number of Do			(5)
						= Total Cover		Species Across All	Strata:	2	(B)
0	(District 45) !										
	tum (Plot size: 15' radii	us)						Percent of Dominar			(4.70)
1								That Are OBL, FAC	W, or FAC:	100%	(A/B)
2											
3											
4								Prevalence Index v	orksheet:		
5.											
						= Total Cover		Total % Co		Multiply	
Harb Stratum /Diat	t pizat El radiua)								V, OI FAC.		A/B
Herb Stratum (Plot			-		550/	V	EAC	OBL species	400/	_ x1 =	- 20
Potentilla norve					20%	Yes	FAC	FACW species	10% 90%		.20
2. Rumex crispus						Yes	FAC FAC	FAC species	90%		.70
Juncus tenuis Geranium carol	linianum				10%	No No	UPL	FACU species UPL species	10%	_ x4 =	.50
Geranium caro Hordeum pusilli					10%	No	FAC	Column Totals:	110%	_	.40 (B)
Liatris lancifolia					5%	No	FACW	Column rotals.	11076	_(A)3	.40 (B)
					5%	No	FACW	Dravalan	ce Index = B/A	\ = 3.09	
7. Veronica pereg	IIIIa				376	INO	FACW	Fievalen	ce ilidex = b/F	3.08	<u>'</u>
8. 9.											
10.								Hydrophytic Vege	ation Indicate	ore:	
11.								Tiyarophytic vege	ation mulcati	J13.	
								1-Panid To	st for Hydroph	ytic Vegetation	
13.								X 2-Dominan			
14.						· 			ce rest is >50 ce Index is ≤3.		
						· 				.o ons ¹ (Provide sup	porting
15. 16.						· 		l —		separate sheet)	Porting
17.										Vegetation ¹ (Exp	lain)
									ic riyaropriyac	vegetation (Exp	iaiii)
18.								¹ Indicators of hydric	coil and watla	nd hydrology mu	
19.											·L
20.					4400/	T		be present, unless	disturbed or pr	obiematic.	
<u> </u>					110%	= Total Cover		<u> </u>			
h											
vvoody Vine Stratur	m (Plot size: 30' radius							Hydrophytic			
1								Vegetation			
2.								Present?	Yes	No	
						= Total Cover		1			
_								1			
Remarks: (Include	photo numbers here or	r on a separate sheet.)									
1											

rofile Description: (Describe to t	he depth need	led to document the in-	dicator or co	onfirm the a	bsence of i	ndicators.)	
epth Matrix		Red	ox Features				
nches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16" 10YR 3/1	100					Silt Loam	
							-
ype: C=Concentration, D=Depleti	on, RM=Reduc	ed Matrix, CS=Covered	or Coated Sa	and Grains.	² Location:	PL=Pore Lining,	M=Matrix.
Iric Soil Indicators ³ :	·					dicators of Hydr	
Histosol (A1)		Sandy Gleyed	d Matrix (S4)			Iron-Mang	janese Masses (F12)
Histic Epipedon (A2)		Sandy Redox	(S5)			Very Shal	low Dark Surface (F22)
Black Histic (A3)		Stripped Matr	rix (S6)			Other (Ex	plain in Remarks)
Hydrogen Sulfide (A4)		Dark Surface					
Stratified Layers (A5)		Loamy Mucky					
2 cm Muck (A10)		Loamy Gleye					
Depleted Below Dark Surface (A11)	Depleted Mat	` '			3	
Thick Dark Surface (A12)		Redox Dark S	, ,	- \		•	indicators have been updated to
Sandy Mucky Mineral (S1)		Depleted Dar	•	7)		. ,	he Field Indicators of Hydric Soils
5 cm Mucky Peat or Peat (S3)		Redox Depre	5510115 (F0)			III the Onlea	States, Version 8.0, 2016.
strictive Layer (if observed):							
Туре:					Hydric So	oil Present?	Yes No >
					Hydric Sc	oil Present?	Yes No>
Type: Depth (inches):					Hydric Sc	oil Present?	Yes No>
Type: Depth (inches): narks:					Hydric Sc	oil Present?	Yes No>
Type: Depth (inches): marks:					Hydric Sc	oil Present?	Yes No>
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one	is required: che	11.77			Hydric Sc	Secondary Indic	ators (minimum of two required)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators:	is required: che	eck all that apply) Water-Staine	d Leaves (BS	3)	Hydric Sc	Secondary Indic	
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one	is required: che	11.77	`)	Hydric So	Secondary Indic Surface S Drainage	eators (minimum of two required) oil Cracks (B6) Patterns (B10)
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	is required: che	Water-Staine Aquatic Faun True Aquatic	a (B13) Plants (B14)	•	Hydric So	Secondary Indic Surface S Drainage Dry-Seaso	eators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2)
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	is required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su	a (B13) Plants (B14) Ifide Odor (C	1)		Secondary Indic Surface S Drainage Dry-Seasc Crayfish E	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
Type: Depth (inches): marks: TDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	is required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) Ifide Odor (C zospheres on	1) Living Root		Secondary Indic Surface S Drainage Dry-Seasc Crayfish E	eators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	is required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) Ifide Odor (C zospheres on Reduced Iron	1) Living Root (C4)	s (C3)	Secondary Indic Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted or	eators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	is required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F	a (B13) Plants (B14) Ifide Odor (C zospheres on Reduced Iron	1) Living Root (C4)	s (C3)	Secondary Indic Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted or	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one 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)	·	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in - urface (C7)	1) Living Root (C4)	s (C3)	Secondary Indic Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted or	eators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Image	agery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Ifide Odor (Cospheres on Reduced Iron Reduction in auriace (C7) Ill Data (D9)	1) Living Root (C4) Filled Soils (s (C3)	Secondary Indic Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted or	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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)	agery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F	a (B13) Plants (B14) Ifide Odor (Cospheres on Reduced Iron Reduction in auriace (C7) Ill Data (D9)	1) Living Root (C4) Filled Soils (s (C3)	Secondary Indic Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted or	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Ima Sparsely Vegetated Concave S	agery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Ifide Odor (Cospheres on Reduced Iron Reduction in auriace (C7) Ill Data (D9)	1) Living Root (C4) Filled Soils (s (C3)	Secondary Indic Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted or	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Ima Sparsely Vegetated Concave Seld Observations: urface Water Present?	agery (B7) urface (B8) Yes No _	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Iffide Odor (C cospheres on Reduced Iron Reduction in a rrface (C7) Ill Data (D9) n in Remarks : N/A	1) Living Root (C4) Filled Soils (s (C3)	Secondary Indic Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted or	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) of Visible on Aerial Imagery (C9) of Stressed Plants (D1) onic Position (D2)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one 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 Ima Sparsely Vegetated Concave Seld Observations: urface Water Present?	agery (B7) urface (B8) Yes No Yes No	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in Irrface (C7) Ill Data (D9) In in Remarks In N/A In N/A	1) Living Root (C4) Filled Soils (s (C3)	Secondary Indice Surface S Drainage Dry-Sease Crayfish E Saturation Stunted of Geomorph FAC-Neut	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) a Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2) tral Test (D5)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Ima Sparsely Vegetated Concave Seld Observations: urface Water Present? ater Table Present?	agery (B7) urface (B8) Yes No _	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in Irrface (C7) Ill Data (D9) In in Remarks In N/A In N/A	1) Living Root (C4) Filled Soils (s (C3)	Secondary Indice Surface S Drainage Dry-Sease Crayfish E Saturation Stunted of Geomorph FAC-Neut	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) a Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2) tral Test (D5)
Type: Depth (inches): marks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one 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 Ima Sparsely Vegetated Concave Seld Observations: urface Water Present? vater Table Present? aturation Present? includes capillary fringe)	egery (B7) furface (B8) Yes No Yes No Yes No	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in urface (C7) III Data (D9) In in Remarks : N/A : N/A	1) Living Root (C4) Filled Soils (s (C3) C6)	Secondary Indice Surface S Drainage Dry-Sease Crayfish E Saturation Stunted of Geomorph FAC-Neut	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2) tral Test (D5)
Type: Depth (inches): marks: TOROLOGY etland Hydrology Indicators: imary Indicators (minimum of one 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 Ima Sparsely Vegetated Concave Seld Observations: Inface Water Present? Interaction Present?	egery (B7) furface (B8) Yes No Yes No Yes No	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in urface (C7) III Data (D9) In in Remarks : N/A : N/A	1) Living Root (C4) Filled Soils (s (C3) C6)	Secondary Indice Surface S Drainage Dry-Sease Crayfish E Saturation Stunted of Geomorph FAC-Neut	rators (minimum of two required) oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) a Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2) tral Test (D5)

Project/Site:	Northeast Corner of	County Line & Arl	ington			City/Count	ty: Indianapol	lis/Marion	Sa	ampling Date:	5/12/2022	2
Applicant/Owner:	Kimley Horn					Stat	e: IN	Sampling Point:		dp15		
Investigator(s):	Ben Hess & Paige Ei	chelberger					Section, Tov	wnship, Range: S23 T14N I	R4E			
Landform (hillslope	e, terrace, etc.):						_	Local relief (concave, conv	ex, none): non	e		
Slope (%):	4%	Lat:	39.	64205393		Long:		-86.06006061		Datum: NAD8	33 UTM16	SN
Soil Map Unit Nam	ie: Miami silt loam-Urbai	land complex, 2	to 6 percent slopes, eroc	led (YmsB2)					NWI classificat	tion: none		
Are climatic / hydro	ologic conditions on the	site typical for thi	s time of year?			Yes	s_X_	No (If no, explain in	Remarks.)			
Are Vegetation	N	, Soil	N , or Hydrolo	gy N	significantly d	listurbed?	Are "N	Normal Circumstances" pres	sent?	Yes X	No	
Are Vegetation	N	, Soil	N , or Hydrolo	gy N	naturally prob	lematic?	(If nee	eded, explain any answers i	in Remarks.)			
SUMMARY OF	FINDINGS Atta	ch site map s	showing sampling p	oint location	s, transects, in	nportant featu	ıres, etc.					
Hydrophytic Ve	getation Present?		Yes		No x	ls th	e Sampled	d Area		•		
Hydric Soil Pres			Yes		No X	with	in a Wetla	nd?	Yes	No x		
Wetland Hydro	logy Present?		Yes		No x	_				•		
Remarks:	Hoo opiontifio n	amas of plan	40									
VEGETATION	Use scientific n	arnes or pian	ıs.		Absolute	Dominant	Indicato	or .				
Tree Stratum (Plot	t size: 30' radius)				% Cover		Status		orksheet:			
1.	,							_				
2.							-	Number of Dominan	t Species			
3.						_		That Are OBL, FAC	W, or FAC:	1	(A	A)
4.								<u> </u>				
5							_	Total Number of Do	minant			
						= Total Cover		Species Across All S	Strata:	3	(B	3)
	atum (Plot size: 15' radi							Percent of Dominan				
1								That Are OBL, FAC	W, or FAC:	33%	(A	VB)
2.								_				
3.								— 				
4. 5.							-	Prevalence Index w	orksneet:			
5.						= Total Cover	-	Total % Cov	ver of:	Multi	ply by:	
								That Are OBL, FACV		·	A/	/B
Herb Stratum (Plo	t size: 5' radius)							OBL species		x1 =		
Galium molluge					35%	Yes	FACU	FACW species		x2 =		
2. Poa pratensis					60%	Yes	FAC	FAC species	60%	x3 =	1.80	_
3. Schedonorus a	arundinaceus				10%	No	FACU	FACU species	80%	x4 =	3.20	
4. Trifolium pratei	nse				30%	Yes	FACU	UPL species		x5 =		_
5. Taraxacum off	ficinale				5%	No	FACU	Column Totals:	140%	(A)	5.00	(B)
6												
7							_	Prevalence	ce Index = B/A	= 3	.57	_
8						_						
9.								— I				
10. 11.								Hydrophytic Veget	ation indicato	rs:		
12						_		1 Panid To	et for Hudrophy	tic Vocatation		
13.							-		st for Hydrophy ce Test is >50%		1	
14.									ce Index is ≤3.0			
15.									gical Adaptatio		supporting	
16.									marks or on a s			
17.					· · · · · · · · · · · · · · · · · · ·				ic Hydrophytic \			
18.						_	_	_				
19.								¹ Indicators of hydric	soil and wetlan	ıd hydrology m	nust	
20.								be present, unless of	disturbed or pro	blematic.		
					140%	= Total Cover						
Woody Vine Stratu	ım (Plot size: 30' radiu	s)			<u> </u>			Hydrophytic				
1								Vegetation				
2							_	Present?	Yes	No X		
					-	= Total Cover						
Remarks: (Include	photo numbers here o	on a separate s	neet.)									

SOIL							Sam	pling Point:	dp15
Profile Desc	cription: (Describe to th	e depth neede	d to document the in	dicator or co	onfirm the a	bsence of i	ndicators.)		
Depth	Matrix		Red	dox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	emarks
0-16"	10YR 5/3	100					Silt Loam		
	-	· 							
				. ——					
¹ Type: C=C	Concentration, D=Depletic	n, RM=Reduced	d Matrix, CS=Covered	or Coated Sa	and Grains.	² Location:	PL=Pore Lining,	M=Matrix.	
Hydric Soil	Indicators3:					Test Inc	dicators of Hydric	Soils:	
Histoso	ol (A1)		Sandy Gleye	d Matrix (S4)			Iron-Manga	anese Masses (F1	2)
Histic I	Epipedon (A2)		Sandy Redox	x (S5)			Very Shallo	ow Dark Surface (I	F22)
	Histic (A3)		Stripped Mat				Other (Exp	lain in Remarks)	
	gen Sulfide (A4)		Dark Surface						
	ed Layers (A5)			y Mineral (F1))				
	Muck (A10)			ed Matrix (F2)					
	ted Below Dark Surface (A	A11)	Depleted Ma	` ,			3		
	Dark Surface (A12)		Redox Dark	, ,	_,		•	ndicators have bee	•
	Mucky Mineral (S1)			rk Surface (F7	7)			ne Field Indicators	•
	Mucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	States, Version 8.	0, 2016.
	Layer (if observed):								
Type:	(* I)						". D	.,	
Depth ((inches):					Hydric Sc	oil Present?	Yes	NoX
Primary Indi	DOGY Idrology Indicators: icators (minimum of one is the Water (A1) Vater Table (A2)	s required: chec	Water-Staine Aquatic Faur	, ,))		Surface So	ators (minimum of iil Cracks (B6) 'atterns (B10)	two required)
Satura	ation (A3)		True Aquatio	Plants (B14)			Dry-Season	n Water Table (C2	2)
Water	Marks (B1)		Hydrogen Su	ılfide Odor (C	1)			urrows (C8)	
	ent Deposits (B2)			zospheres on	J	ts (C3)		Visible on Aerial In	
	eposits (B3)			Reduced Iron	` ,			Stressed Plants (I	01)
	Mat or Crust (B4)			Reduction in 1	Filled Soils (C6)		ic Position (D2)	
Iron De	eposits (B5)		Thin Muck S	urface (C7)			FAC-Neutr	al Test (D5)	
Inunda	ation Visible on Aerial Imag	gery (B7)	Gauge or We	ell Data (D9)					
Sparse	ely Vegetated Concave Su	ırface (B8)	Other (Expla	in in Remarks	s)				
Field Obser	vations:								
Surface Wa	iter Present?	∕es No >	Depth (inches): N/A					
Water Table	e Present?	∕es No >	Depth (inches): N/A					
Saturation P	Present?	res No >	Depth (inches): N/A	Wetlan	d Hydrology	/ Present?	Yes	No X
(includes ca	apillary fringe)			· ——					
	ecorded Data (stream gau	ige, monitoring v	vell, aerial photos, pre	vious inspect	ions), if avai	lable:			
Remarks:									
Nomains.									

Project/Site:	Northeast Corner of	County Line & Arlington				City/County:	: Indianapolis/Ma	arion	Sampling Date: <u>5/12/2022</u>
Applicant/Owner:	Kimley Horn					State:	: IN	Sampling Point:	dp16
Investigator(s):	Ben Hess & Paige Ei	chelberger					Section, Townshi	ip, Range: S23 T14N R4E	
Landform (hillslope								Il relief (concave, convex, none): r	none
Slope (%):	4%	Lat:	39.6422270	5		Long:	-86	6.06119523	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Crosby silt loam, fine	-loamy subsoil-Urban land	complex, 0 to 2 percent	slopes (YcIA)				NWI classifi	ication: none
Are climatic / hydro	logic conditions on the	site typical for this time of	year?			Yes	X No	(If no, explain in Remarks.)	-
Are Vegetation	N	, Soil N	, or Hydrology	N s	ignificantly dis	_		al Circumstances" present?	Yes X No
Are Vegetation	N	, Soil N	, or Hydrology		aturally proble			, explain any answers in Remarks.	
		ch site map showin						, . , ,	,
	getation Present?	on one map enewing	Yes X	No	noodio, nin		Sampled Ar	02	
Hydric Soil Pres			Yes	No	Х	-	a Wetland?		No x
Wetland Hydrol			Yes	No	X		ra monana.	100	No <u>_x</u> _
Remarks:									
VEGETATION -	Use scientific n	ames of plants.			Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test worksheet:	
Platanus occide					60%	Yes	FACW		
2. Celtis occidenta					30%	Yes	FAC	Number of Dominant Species	
3.								That Are OBL, FACW, or FAC:	4 (A)
4.									
5.								Total Number of Dominant	
					90%	= Total Cover		Species Across All Strata:	6 (B)
[<u>.</u>									
	tum (Plot size: 15' radi	us)						Percent of Dominant Species	
1. Cornus drumm					30%	Yes	FAC	That Are OBL, FACW, or FAC:	67% (A/B)
2. Lonicera maaci	KII				30%	Yes	UPL		
3.								Dravelance Index worksheets	
4. 5.						· ———		Prevalence Index worksheet:	
J.					60%	= Total Cover		Total % Cover of:	Multiply by:
					0070	_ Total Cover		That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	size: 5' radius)							OBL species	x1 =
Populus deltoid			_		20%	Yes	FAC	FACW species 60%	x2 = 1.20
2. Euonymus fortu	unei				30%	Yes	UPL	FAC species 80%	x3 = 2.40
3.								FACU species	x4 =
4.								UPL species 60%	x5 = 3.00
5.								Column Totals: 200%	(A) 6.60 (B)
6									
7								Prevalence Index = B	3/A = 3.30
8									
9									
10								Hydrophytic Vegetation Indica	ators:
11.									
12.								1-Rapid Test for Hydro	
13.								X 2-Dominance Test is >5	i e e e e e e e e e e e e e e e e e e e
14.								3-Prevalence Index is ≤	ations ¹ (Provide supporting
15.									
16. 17.								data in Remarks or on	a separate sneet) tic Vegetation ¹ (Explain)
18.								i Tobiematic Hydrophyt	ic vegetation (Explain)
19.						· ———		¹ Indicators of hydric soil and wet	land hydrology must
20.								be present, unless disturbed or	
[50%	= Total Cover		_ 5 p. ccc, arricos disturbed Of	F. 227011000
					-370				
Woody Vine Stratur	m (Plot size: 30' radiu	s)						Hydrophytic	
1.		· -						Vegetation	
2.									X No
						= Total Cover			
						-			
Remarks: (Include	photo numbers here o	r on a separate sheet.)							

OIL						Sar		
ofile Description: (Describe to th	e depth needed to			nfirm the ab	sence of	indicators.)		
epth Matrix			Features	_ 1				
ches) Color (moist)	<u>%</u> C	olor (moist)	%	Type ¹	Loc ²	Texture	Re	marks
0-16" 10YR 4/2	100					Silt Loam		
-								
Francia C. Compositivation D. Donletio	DM Dadward M	atrice CC Coursed on	· Cantad Car	-d Craina	21	: PL=Pore Lining,	NA Matrix	
ype: C=Concentration, D=Depletion of the Soil Indicators ³ :	n, RIVI=Reduced IVI	atrix, CS=Covered or	Coated Sar	nd Grains.		dicators of Hydri		
Histosol (A1)		Sandy Gleyed N	Matrix (S4)		1001		anese Masses (F1:	2)
Histic Epipedon (A2)	-	Sandy Redox (S					ow Dark Surface (F	•
Black Histic (A3)	-	Stripped Matrix					plain in Remarks)	
Hydrogen Sulfide (A4)	_	Dark Surface (S				Other (EX	nam m remarks)	
Stratified Layers (A5)	-	Loamy Mucky N						
2 cm Muck (A10)	-	Loamy Gleyed I	, ,					
Depleted Below Dark Surface (A	<u>-</u> (11)	Depleted Matrix						
Thick Dark Surface (A12)	<u>-</u>	Redox Dark Su	` '			³ The hydric soil i	ndicators have bee	en updated to
Sandy Mucky Mineral (S1)	=	Depleted Dark		1		•	ne Field Indicators	•
5 cm Mucky Peat or Peat (S3)	=	Redox Depress		'			States, Version 8.0	
estrictive Layer (if observed):								
Type:								
rype.								
Depth (inches):					Hydric S	oil Present?	Yes	No
Depth (inches):emarks:					Hydric S	oil Present?	Yes	No;
Depth (inches): emarks: YDROLOGY					Hydric S	oil Present?	Yes	No;
Depth (inches): emarks: YDROLOGY Vetland Hydrology Indicators:	s required; check al	I that apply)			Hydric S			
Pepth (inches): Pemarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is	s required: check al		Leaves (B9)		Hydric S	Secondary Indic	ators (minimum of	
Pimary Indicators (minimum of one is Surface Water (A1)	s required: check al	Water-Stained I	` '		Hydric S	Secondary Indic	ators (minimum of boil Cracks (B6)	
Perpth (inches): Permarks: PyDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2)	s required: check al	Water-Stained I	(B13)		Hydric S	Secondary Indic Surface So Drainage I	ators (minimum of bil Cracks (B6) Patterns (B10)	two required)
Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3)	s required: check al	Water-Stained I Aquatic Fauna (True Aquatic Pl	(B13) lants (B14)		Hydric S	Secondary Indic Surface So Drainage I Dry-Seaso	ators (minimum of tobil Cracks (B6) Patterns (B10) In Water Table (C2	two required)
Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	s required: check al	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic	(B13) lants (B14) de Odor (C1))		Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B	ators (minimum of bil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8)	two required)
Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	s required: check al - - - -	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos	(B13) lants (B14) de Odor (C1) spheres on I) Living Roots		Secondary Indic Surface Si Drainage I Dry-Seasc Crayfish B	ators (minimum of total Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Ir	two required)
POROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	s required: check al	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re	(B13) lants (B14) de Odor (C1) spheres on Leduced Iron () Living Roots (C4)	(C3)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or	ators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2 urrows (C8) Visible on Aerial In Stressed Plants (E	two required)
Print (inches): Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	s required: check al	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec	(B13) lants (B14) de Odor (C1) spheres on leduced Iron (duction in Ti) Living Roots (C4)	(C3)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of poil Cracks (B6) Patterns (B10) In Water Table (C2 In Water Table (C3) Visible on Aerial In Stressed Plants (D3)	two required)
Primary Indicators: 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)	- - - - -	Water-Stained I Aquatic Fauna I True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec	(B13) lants (B14) de Odor (C1) spheres on I educed Iron (duction in Ti ace (C7)) Living Roots (C4)	(C3)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of soil Cracks (B6) Patterns (B10) on Water Table (C2 urrows (C8) Visible on Aerial In Stressed Plants (E	two required)
Property (inches): Permarks: Property (inches): Property (inche	- - - - - - gery (B7)	Water-Stained I Aquatic Fauna I True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa	(B13) lants (B14) de Odor (C1) spheres on I educed Iron (duction in Ti ace (C7) Data (D9)) _iving Roots (C4) Iled Soils (Cd	(C3)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of poil Cracks (B6) Patterns (B10) In Water Table (C2 In Water Table (C3) Visible on Aerial In Stressed Plants (D3)	two required)
Property (inches): Proper	- - - - - - gery (B7)	Water-Stained I Aquatic Fauna I True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec	(B13) lants (B14) de Odor (C1) spheres on I educed Iron (duction in Ti ace (C7) Data (D9)) Living Roots (C4) Iled Soils (Cd	(C3)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of poil Cracks (B6) Patterns (B10) In Water Table (C2 In Water Table (C3) Visible on Aerial In Stressed Plants (D3)	two required)
Primary Indicators (minimum of one is 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 Images Sparsely Vegetated Concave Surield Observations:	gery (B7)	Water-Stained I Aquatic Fauna I True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa Gauge or Well I Other (Explain i	(B13) lants (B14) de Odor (C1) spheres on I educed Iron (duction in Ti ace (C7) Data (D9) in Remarks)) Living Roots (C4) Iled Soils (Cd	(C3)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of poil Cracks (B6) Patterns (B10) In Water Table (C2 In Water Table (C3) Visible on Aerial In Stressed Plants (D3)	two required)
Property (inches): Property (inches): Property (etland Hydrology Indicators: Primary Indicators (minimum of one is 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 Images Sparsely Vegetated Concave Surface Water Present?	gery (B7) urface (B8)	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa Gauge or Well I Other (Explain i	(B13) lants (B14) de Odor (C1) spheres on I educed Iron (duction in Ti ace (C7) Data (D9) in Remarks)) Living Roots (C4) Iled Soils (Cd	(C3)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of poil Cracks (B6) Patterns (B10) In Water Table (C2 In Water Table (C3) Visible on Aerial In Stressed Plants (D3)	two required)
POROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is 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 Image Sparsely Vegetated Concave Surface Water Present?	gery (B7) urface (B8) /es No _X /es No _X	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa Gauge or Well I Other (Explain i Depth (inches): Depth (inches):	(B13) lants (B14) de Odor (C1) spheres on I educed Iron (duction in Ti ace (C7) Data (D9) in Remarks) N/A N/A) Living Roots (C4) Iled Soils (Cd	(C3) 6)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	ators (minimum of toil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial In Stressed Plants (Dic Position (D2) ral Test (D5)	two required) nagery (C9)
Prince Water (Ba) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Images (Sparsely Vegetated Concave Surierace Water Present? Water Table Present?	gery (B7) urface (B8)	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa Gauge or Well I Other (Explain i	(B13) lants (B14) de Odor (C1) spheres on I educed Iron (duction in Ti ace (C7) Data (D9) in Remarks)) Living Roots (C4) Iled Soils (Cd	(C3) 6)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ators (minimum of poil Cracks (B6) Patterns (B10) In Water Table (C2 In Water Table (C3) Visible on Aerial In Stressed Plants (D3)	two required)
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Depth (inches): Primarks: Primary Indicators (minimum of one is 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 Image Sparsely Vegetated Concave Surface Water Present? Surface Water Present?	gery (B7) Inface (B8) Ves NoX Ves NoX Ves NoX	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa Gauge or Well I Other (Explain i Depth (inches): Depth (inches):	(B13) lants (B14) de Odor (C1) spheres on Leduced Iron (duction in Ti ace (C7) Data (D9) in Remarks) N/A N/A N/A) Living Roots C4) Iled Soils (Ci	(C3) 6)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	ators (minimum of toil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial In Stressed Plants (Dic Position (D2) ral Test (D5)	two required) nagery (C9)
Property (inches): Permarks: Property (etland Hydrology Indicators: rimary Indicators (minimum of one is 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 Image Sparsely Vegetated Concave Surface Water Present? Vater Table Present? Auturation Present? Includes capillary fringe)	gery (B7) Inface (B8) Ves NoX Ves NoX Ves NoX	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa Gauge or Well I Other (Explain i Depth (inches): Depth (inches):	(B13) lants (B14) de Odor (C1) spheres on Leduced Iron (duction in Ti ace (C7) Data (D9) in Remarks) N/A N/A N/A) Living Roots C4) Iled Soils (Ci	(C3) 6)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	ators (minimum of toil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial In Stressed Plants (Dic Position (D2) ral Test (D5)	two required) nagery (C9)
POROLOGY Tetland Hydrology Indicators: rimary Indicators (minimum of one is 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 Imagents Sparsely Vegetated Concave Surface Water Present? Vater Table Recorded Data (stream gauges)	gery (B7) Inface (B8) Ves NoX Ves NoX Ves NoX	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa Gauge or Well I Other (Explain i Depth (inches): Depth (inches):	(B13) lants (B14) de Odor (C1) spheres on Leduced Iron (duction in Ti ace (C7) Data (D9) in Remarks) N/A N/A N/A) Living Roots C4) Iled Soils (Ci	(C3) 6)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	ators (minimum of toil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial In Stressed Plants (Dic Position (D2) ral Test (D5)	two required) nagery (C9)
Principles (Principles): Primary Indicators (Minimum of one is 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 Images (Sparsely Vegetated Concave Surface Water Present? Vater Table Present?	gery (B7) Inface (B8) Ves NoX Ves NoX Ves NoX	Water-Stained I Aquatic Fauna (True Aquatic PI Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Thin Muck Surfa Gauge or Well I Other (Explain i Depth (inches): Depth (inches):	(B13) lants (B14) de Odor (C1) spheres on Leduced Iron (duction in Ti ace (C7) Data (D9) in Remarks) N/A N/A N/A) Living Roots C4) Iled Soils (Ci	(C3) 6)	Secondary Indic Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	ators (minimum of toil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial In Stressed Plants (Dic Position (D2) ral Test (D5)	two required) nagery (C9)

Project/Site:	Northeast Corner of	County Line & Arlington				City/County:	Indianapolis/M	larion	\$	Sampling Date:	5/12/2022	
Applicant/Owner:	Kimley Horn					State:	IN	Sampling Point		dp17		
Investigator(s):	Ben Hess & Paige E	ichelberger					Section, Townsh	nip, Range: S23 T14N	R4E			
Landform (hillslope	, terrace, etc.):							al relief (concave, con		one		
Slope (%):	2%	Lat:	39.640839	7		Long:	-8	86.06032801		Datum: NAD	083 UTM16I	N
Soil Map Unit Name	e: Treaty silty clay loam	n, 0 to 1 percent slopes (Th	nrA)			·			NWI classific	cation: none	е	
Are climatic / hydro	ologic conditions on the	site typical for this time of	year?			Yes	X No	(If no, explain	n Remarks.)			
Are Vegetation	N	, Soil N	, or Hydrology	N	significantly dist	_		nal Circumstances" pr		Yes X	No	
Are Vegetation	N	, Soil N	, or Hydrology	N	naturally proble			d, explain any answers				_
		ach site map showin			_			, , , ,	,			
	getation Present?	ion one map enemn	Yes				Sampled A	roo				
Hydric Soil Pres			Yes		lo x		a Wetland		Yes	No >	·	
Wetland Hydrol			Yes		10 X	Within	a welland	•	163	_ 110	<u>`</u>	
Remarks:				•	<u> </u>							
VECETATION	Lloo coiontifio r	somes of plants										
VEGETATION	Use scientific r	iames or piams.			Absolute	Dominant	Indicator	1				
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test	worksheet:			
1.												
2								Number of Domina	nt Species			
3.								That Are OBL, FAC	CW, or FAC:	2	(A))
4												
5								Total Number of D				
						= Total Cover		Species Across All	Strata:	4	(B)
Sanling/Shrub Stra	tum (Plot size: 15' rad	ius)						Percent of Domina	nt Species			
Cornus drumm					20%	Yes	FAC	That Are OBL, FAC		50%	(A	/B)
Gleditsia triaca					20%	Yes	FACU	111007110032,1710	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(/*	, ,
3. Fraxinus penns					5%	No	FACW					
Pyrus calleryar					10%	No	UPL	Prevalence Index	worksheet:			
5. Elaeagnus uml					10%	No	UPL	·				
					65%	= Total Cover		Total % Co	over of:	Mult	tiply by:	
						•		That Are OBL, FAC	W, or FAC:		A/I	В
Herb Stratum (Plot	t size: 5' radius)		_					OBL species		x1 =		_
Solidago altissi	ima				40%	Yes	FACU	FACW species	5%	x2 =	0.10	_
2. Vernonia gigan	ntea				5%	No	FAC	FAC species	55%	x3 =	1.65	
3. Poa pratensis					20%	Yes	FAC	FACU species	60%	x4 =	2.40	_
4. Toxicodendron	radicans				10%	No	FAC	UPL species	20%	x5 =	1.00	_
5								Column Totals:	140%	(A)	5.15	(B)
6					_							
7								Prevale	nce Index = B/	A =3	3.68	_
8.					_	· 						
9. 10.					-			Hydrophytic Vege	tation Indica	tore:		
11.					-			nyuropnyuc vege	tation muica	.015.		
12.						·		1-Ranid T	est for Hydron	hytic Vegetation	n	
13.						· 		· I ——	nce Test is >5			
14.					-		-	· I ——	nce Index is ≤			
15.						. ———				tions ¹ (Provide	supporting	
16.					_	· 		· ——		a separate shee		
17.					_					c Vegetation ¹ (I		
18.												
19.								¹ Indicators of hydri	soil and wetla	and hydrology i	must	
20.							-	be present, unless	disturbed or p	roblematic.		
					75%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radiu	is)						Hydrophytic				
1								Vegetation				
2.								Present?	Yes	No X	_	
						= Total Cover		1				
Remarks: (Include	photo numbers here of	or on a separate sheet.)										

rofile Description: (Describe to the	e depth needed to	document the in-	dicator or cor	nfirm the a	bsence of	indicators.)		
Depth Matrix			lox Features			,		
inches) Color (moist)	% C	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-16" 10YR 4/1	100					Silt Loam		
						· <u></u>		
						· -		
						. ——— -		
						. ——— -		
						· -		
Type: C=Concentration, D=Depletion	n, RM=Reduced M	latrix, CS=Covered	or Coated Sar	nd Grains.	² Location	n: PL=Pore Lining, M	l=Matrix.	
dric Soil Indicators ³ :					Test I	ndicators of Hydric		
Histosol (A1)	-	Sandy Gleyed					nese Masses (F12)	
Histic Epipedon (A2)	-	Sandy Redox	,				w Dark Surface (F22	2)
Black Histic (A3)	-	Stripped Matr	, ,			Other (Expla	ain in Remarks)	
Hydrogen Sulfide (A4) Stratified Layers (A5)	-	Dark Surface	` ,					
2 cm Muck (A10)	-	Loamy Gleye	y Mineral (F1)					
Depleted Below Dark Surface (A	-	Depleted Mat						
Thick Dark Surface (A12)	-	Redox Dark S	,			³ The hydric soil inc	dicators have been	updated to
Sandy Mucky Mineral (S1)	-		k Surface (F7))		•	e Field Indicators of	•
5 cm Mucky Peat or Peat (S3)	-	Redox Depre		,		in the United Si	tates, Version 8.0, 2	2016.
	<u>.</u>							
-	<u> </u>							
estrictive Layer (if observed): Type: Depth (inches):					Hydric S	Soil Present?	Yes	No
estrictive Layer (if observed): Type:					Hydric S	Soil Present?	Yes	No:
estrictive Layer (if observed): Type: Depth (inches):	·				Hydric S	Soil Present?	Yes	No
estrictive Layer (if observed): Type: Depth (inches):					Hydric S	Soil Present?	Yes	No;
Estrictive Layer (if observed): Type: Depth (inches):					Hydric S	Soil Present?	Yes	No
estrictive Layer (if observed): Type: Depth (inches): emarks:					Hydric S	Soil Present?	Yes	_ No
rype: Depth (inches): marks: YDROLOGY etland Hydrology Indicators:					Hydric S			
estrictive Layer (if observed): Type: Depth (inches): emarks: YDROLOGY fetland Hydrology Indicators: rimary Indicators (minimum of one is	required: check a				Hydric S	Secondary Indicate	ors (minimum of two	
PAROLOGY Type: Depth (inches): PMAROLOGY Petland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1)	required: check a	Water-Staine	nd Leaves (B9)		Hydric S	Secondary Indicate	ors (minimum of two Cracks (B6)	
estrictive Layer (if observed): Type: Depth (inches): emarks: YDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2)	required: check a	Water-Staine Aquatic Faun	a (B13)		Hydric S	Secondary Indicate Surface Soil Drainage Pa	ors (minimum of two Cracks (B6) atterns (B10)	
Pestrictive Layer (if observed): Type: Depth (inches): PAROLOGY Petland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3)	required: check a	Water-Staine Aquatic Faun True Aquatic	a (B13) Plants (B14)		Hydric S	Secondary Indicate Surface Soil Drainage Pa Dry-Season	ors (minimum of two Cracks (B6) atterns (B10) Water Table (C2)	
Pestrictive Layer (if observed): Type: Depth (inches): Marks: PDROLOGY etland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	required: check al	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul	a (B13) Plants (B14) Ifide Odor (C1)		Secondary Indicate Surface Soil Drainage Pa Dry-Season Crayfish Bur	ors (minimum of two Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)	o required)
estrictive Layer (if observed): Type: Depth (inches): emarks: YDROLOGY [etland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	required: check a	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14) Ifide Odor (C1) zospheres on L) Living Roots		Secondary Indicate Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	ors (minimum of two Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) (isible on Aerial Ima	o required) gery (C9)
rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	required: check a	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F	na (B13) Plants (B14) Ifide Odor (C1) zospheres on I Reduced Iron () Living Roots (C4)	s (C3)	Secondary Indicate Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	ors (minimum of two Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) (isible on Aerial Ima stressed Plants (D1)	o required) gery (C9)
rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	required: check a	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B14) Ifide Odor (C1) zospheres on I Reduced Iron (Reduction in Ti) Living Roots (C4)	s (C3)	Secondary Indicate Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	ors (minimum of two Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) (isible on Aerial Ima stressed Plants (D1)	o required) gery (C9)
rimary Indicators (minimum of one is 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)	-	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su	a (B13) Plants (B14) Ifide Odor (C1) zospheres on I Reduced Iron (Reduction in Ti urface (C7)) Living Roots (C4)	s (C3)	Secondary Indicate Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	ors (minimum of two Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) (isible on Aerial Ima stressed Plants (D1)	o required) gery (C9)
Pestrictive Layer (if observed): Type: Depth (inches): Pemarks: Permarks: Permarks:	- - - - - gery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	la (B13) Plants (B14) Ifide Odor (C1) zospheres on I Reduced Iron (Reduction in Ti urface (C7)) Living Roots (C4) illed Soils (C	s (C3)	Secondary Indicate Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	ors (minimum of two Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) (isible on Aerial Ima stressed Plants (D1)	o required) gery (C9)
estrictive Layer (if observed): Type: Depth (inches): emarks: Primary Indicators (minimum of one is 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 Image Sparsely Vegetated Concave Su	- - - - - gery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Ifide Odor (C1) zospheres on I Reduced Iron (Reduction in Ti urface (C7)) Living Roots (C4) illed Soils (C	s (C3)	Secondary Indicate Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	ors (minimum of two Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) (isible on Aerial Ima stressed Plants (D1)	o required) gery (C9)
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TOGETHER we can do great things

Community

community.

When we say community, we don't just mean the neighborhoods that people call home. We mean everyone and everything with a stake in the work that we do-from our Stantec and industry colleagues to the clients we collaborate with and the people and places we impact. Whether creating, sustaining, or revitalizing a community, we help diverse cultures and perspectives work together toward shared successes. Although our work helps to create physical communities, our ultimate goal is to create something far more meaningful—a sense of

Creativity

For us, creativity is driven by purpose. Knowing that transformation is truly possible inspires us to approach every situation with a fresh perspective.

Our inventive and collaborative approach to problem-solving helps bring big ideas to life through creative solutions.

Whether our contribution is a design that strikes the perfect balance between function and aesthetics, a feat of engineering that redefines what's possible, or a project management approach that delivers results, we strive for outcomes that transcend the challenges they solve and shape the communities we serve for the better.

Client Relationships

We're better together. This belief shapes how we collaborate with our clients, our partners, and our communities.

We listen so we can deeply understand our clients' needs, communicate with purpose so we maintain alignment, and remain open and flexible so we never miss an opportunity to strengthen a project and positively transform a community.



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