

APPLICATION FOR AUTHORIZATION TO DISCHARGE DREDGED OR FILL MATERIAL TO ISOLATED WETLANDS AND/OR WATERS OF THE STATE State Form 51821 (R2 / 11-15)

Indiana Department of Environmental Management

INSTRUCTIONS: 1. Read the instruction sheet before filling out this form.

2. You must complete all applicable sections of this form

1. Applicant Information	2. Agent Information
Name of Applicant GP-CM County Line Partners, LLC	Name of Agent Stantec
Mailing address (<i>Street/ PO Box/ Rural Route, City, State, Zl</i> 350 Massachusetts Avenue, Suite 400 Indianapolis, IN 46204	P Code) Mailing address (Street/ PO Box/ Rural Route, City, State, ZIP Code) 3901 Industrial Boulevard Indianapolis, IN 46254
Daytime Telephone Number	Daytime Telephone Number (463) 269-1622
Fax Number	Fax Number
E-mail address (optional) rgershman@gershmanpartners.com	E-mail address <i>(optional)</i> benjamin.harvey@stantec.com
Contact person <i>(required)</i> Ryan Gershman	Contact person Ben Harvey
3	Project / Tract Location
County Marion	Nearest city or town Indianapolis
U.S.G.S. Quadrangle map name <i>(Topographic map)</i> Beech Grove	Project street address <i>(if applicable)</i> Northeast of County Line Road and Arlington Avenue, Indianapolis, IN 46237
QuarterSectionSW23	TownshipRange14 North4 East
Other location descriptions or driving directions From Indianapolis, take I-65 S to E Southport Road a at the northeast corner of the intersection of Arlington	County Line Road at Arlington Avenue - Northeast Corner and head east. Turn South onto S Arlington Avenue until you reach the project site Avenue and County Line Road.
4. Project Purpose and	Description (Use additional sheet(s) if required.)
Has any construction been started? ☐ Yes ⊠ No	March 2024
If yes, how much work is completed? Purpose of project and overview of activities The purpose of the project is to develop the property is project area, all of which were determined isolated we as an Attachment) and correspondence with the USA Isolated Wetlands by the Corps. It is anticipated that N portion of Wetland 4 are not regulated resources under regulated by IDEM. Each of these wetland areas apped Wetland 1 and Wetland 2 will be entirely impacted with proposed project limits, and those portions beyond the sections of Wetland 3 and Wetland 4 will be discussed 13-18-22.	nto commercial warehouses. A total of 4 wetlands were identified within the tlands in a USACE Jurisdictional Determination dated March 1, 2023 (included CE Project Manager more recently. Wetlands 1, 2, 3, and 4 were identified as Vetland 1, Wetland 2, the emergent portion of Wetland 3, and the impacted er state statute. However, the forested portions of Wetland 3 are anticipated to be ar to meet the definition of "cropland" in Indiana Code. hin the project limits. Portions of Wetland 3 and Wetland 4 extend beyond the project limits will not be impacted. Wetland 1, Wetland 2, and emergent d as impacts in this application but are anticipated to not be regulated under IC

5. Avoidance, Minimization, and Mitigation Information: Applicants must answer all of the following questions (Use additional sheet(s) if necessary - provide a detailed response to all applicable questions.)
A. For projects with Class II isolated wetlands –
1. Is there a reasonable alternative to the proposed activity?
No Class II wetlands requiring a permit will be impacted as wetlands located in active agricultural fields are exempt under IC 13-18-22.
2. Is the proposed activity reasonably necessary or appropriate?
 B. For projects with Class III wetlands, adjacent wetlands, and/or streams, rivers, lakes or other water bodies – 1. Is there a practicable alternative to the proposed activity? The purpose of the project would not be successfully completed without impacts to the Class III Wetlands. Other properties were considered but this property offers the proximity to the interstate that is desirable, and is also available for development The area has been zoned for development, is considered a priority development area by the City of Indianapolis, and a TIF (Tax Increment Financing) district has been proposed in this area to encourage development of the site.
2. Have practicable and appropriate steps to minimize impacts to water resources been taken? Yes, appropriate steps have been taken to avoid impacts to water resources. Eastern portions of Wetland 3 and Wetland 4, totaling an additional 1.0 and 13.1 acres respectively, were eliminated from the project to avoid and minimize impacts, and the portion of the project included most of the forested wetlands of higher quality. This preserves an additional 2.8 acres of isolated forested wetland.
Describe all compensatory mitigation required for unavoidable impacts. Mitigation will be provided through purchase of mitigation bank or In-Leiu Fee credit. Impacts to forested non-exempt wetlands were evaluated to determine required mitigation. Impacts are as follows: Wetland 3 - 0.244 acres, for a total of 0.244 acres of impacted Class 3 forested wetland. Ratio for this impact is 2.5:1 per IC 13-18-22-6 resulting in 0.6 acres/credits of mitigation required.
6. Drawing / Plan Requirements (Applicants must provide the following.)
 a. Top/aerial/overhead views of the project site showing existing conditions and proposed construction. b. Cross sectional view of areas of fill or alterations to streams and other waters. c. North arrow, scale, property boundaries. d. Include wetland delineation boundary <i>(if applicable)</i>. Label all wetlands (jurisdictional, isolated and exempt) as I-1, I-2, I-3, etc. and the mitigation
areas as M-1, M-2, etc. e. Location of all surface waters, including wetlands, erosion control measures, existing and proposed structures, fill and excavation locations, disposal area for excavated material, including quantities, and wetland mitigation site (<i>if applicable</i>).
f. Approximate water depths and bottom configurations (<i>if applicable</i>).
7. Supplemental Application Materials (Applicants must provide the following.)
 a. A wetland delineation of all wetlands on the project site (for projects with wetland impacts). b. At least three photographs of the project site. Indicate the photo locations on the project plans. c. If isolated wetlands are present, a letter from the Corps of Engineers verifying this statement. d. Wetland mitigation plan and monitoring report. e. Classification of all isolated wetlands on the tract (<i>if isolated wetlands are present onsite</i>). f. Copies of all applicable local permits and/or resolutions pertaining to the project or tract. g. Tract history (see instructions). 8. Additional information that MAY be required (IDEM will notify you if needed.)
 a. Erosion control and/or storm water management plans. b. Sediment analysis. c. Species surveys for fish, mussels, plants and threatened or endangered species. d. Stream habitat assessment.

e. Any other information IDEM deems necessary to review the proposed project.

9. Permitting Requirements
a. Does this project require the issuance of a Department of the Army Section 404 Permit from the US Army Corps of Engineers? 🗌 Yes 🖾 No If no, you do not need to answer Part b.
b. Have you applied for an Army Corps of Engineers Section 404 permit? If yes, please supply the Corps of Engineers ID Number, the Corps of Engineers District, the project manager, and a copy of any correspondence with the Corps. If no, contact the Army Corps of Engineers regarding the possible need for a permit application. A permit application was submitted for the project, but as a result of regulatory changes since initial submittal there are now no wetlands under USACE jurisdiction within the project limits.
c. Have you applied for, received, or been denied a permit from the Department of Natural Resources for this project? 🗌 Yes 🛛 No Please give the permit name, permit number, and date of application, issuance or denial.
 d. Have you applied for, received, or been denied any other federal, state, or local permits, variances, licenses, or certifications for this project? Yes No Please give the permit name, agency from which it was obtained, permit number, and date of issuance or denial. Local development permitting obtained or in process.

10. Adjoining Property Owners and Addresses

List the names and addresses of landowners adjacent to the property on which your project is located and the names and addresses of other persons (or entities) potentially affected by your project. Use additional sheet(s) if required.

Name			Name		
Address (number and street)			Address (number and street)		
6021 Royal Gate Ct			6039 Royal Gate Ct		
City	State	ZIP Code	City	State	ZIP Code
Indianapolis	IN	46237-9321	Indianapolis	IN	46237
Name			Name		
Indiana Department of Transpo	ortation		Indianapolis Department of Put	blic Works	
Address (<i>number and street</i>) 100 N Senate Ave Ste N642			Address (number and street) 200 E Washington St Ste 2460		
City	State	ZIP Code	City	State	ZIP Code
Indianapolis	IN	46204	Indianapolis	IN	46204
Name Charles D & Christina D Haydo	on		Name James E Mehling & Susan J El	lspermann	
Address <i>(number and street)</i>			Address (<i>number and street</i>) 212 F 25 th St	•	
City	State	ZIP Code	City	State	ZIP Code
Indianapolis	IN	46237	Ferdinand	IN	47532-9385
Name Carla Jean Phipps			Name Marla Fielder		
Address (number and street) 6103 Royal Gate Place			Address (<i>number and street)</i> 6111 Royal Gate Pl		
City	State	ZIP Code	City	State	ZIP Code
Indianapolis	IN	46237	Indianapolis	IN	46237
Name			Name		
Rachel Lyons			John Howad & Nanacy Susan	Vice	
Address (number and street)			Address (number and street) 6127 Royal Gate Pl		
City	State	7IP Code	City	State	7IP Code
Indianapolis	IN	46237	Indianapolis	IN	46237-9262
Name			Name		
Rodney Forrest & Cathy Lynn	Kirby		Gary Stringer		
Address (number and street) 6135 Royal Gate Pl			Address (number and street) 6143 Royal Gate Pl		
City	State	ZIP Code	City	State	ZIP Code
Indianapolis	IN	46237	Indianapolis	IN	46237

James F & Sue A Winton 6159	David A SR & Wendy C Straub	Navtej & Sarabjot Kaur Singh
Royal Gate Pl Indianapolis, IN	6205 Royal Gate Pl	6213 Royal Gate Pl
46237	Indianapolis, IN 46237	Indianapolis, IN 46237

Michael J & Karla R Woodward	Melissa Ann & Michael Bernard O'Maley	MJRR Property INC
6221 Royal Gate Pl	6229 Royal Gate Pl	2817 Halfaker Way
Indianapolis, IN 46237	Indianapolis, IN 46237	Greenwood, IN 46143

Christy W Mackerodt

10160 N 700 E

Indianapolis, IN 46259-9551

	11. Signature - Statement of Af	firmation
I certify that I am familiar with t accurate, I certify that I have t penalties for submitting false ir discharge to a water of the sta agree to allow representatives federal agencies does not rele	the information contained in this application and, to the best he authority to undertake and will undertake the activities as nformation. I understand that any changes in project design te are not authorized and I may be subject to civil and crimir of the IDEM to enter and inspect the project site. I understa ase me from the requirement of obtaining the authorization	of my knowledge and belief, such information is true and a described in this application. I am aware that there are subsequent to IDEM's granting of authorization to nal penalties for proceeding without proper authorization. I and that the granting of other permits by local, state, or requested herein before commencing the project.
Applicant's Signature:	My chup	Date: 2/27/24 (mm/dd/yyyy)
Print Name:	Ryan Gershman	Title: Principa (

	Worksh	eet – Summary of Onsite	Water Resourc	es and Projec	ct Impacts	
A. Jurisdiction	onal Wetlands	s (Existing Conditions)	Jurisdio	ctional Wetlar	nds (Proposed Impacts)	
Wetland Type	e S	ize of wetland <i>(acreage)</i>	To be Impacted?	Acreage	Fill quantity (cys)	ATF
□em □ss [] FO		☐ Yes ☐ No			
] FO		□ Yes □ No			
EM SS [] FO		□ Yes □ No			
□em □ss [] FO		🗌 Yes 🗌 No			
□em □ss [] FO		🗌 Yes 🗌 No			
□em □ss [] FO		🗌 Yes 🗌 No			
□em □ss [] FO		🗌 Yes 🗌 No			
Describe the type ar	nd composition of	fill material to be placed in wetland	ds on the project site	:		
Describe the type ar	nd composition and	d quantity <i>(cubic yards)</i> of materia	I proposed to be dre	dged or excavated	d from wetlands on the project si	te:
B. Isolate	d Wetlands (E	xisting Conditions)	Isola	ated Wetlands	(Proposed Impacts)	
Wetland Class	Туре	Size of wetland (acreage)	To be Impacted?	Acreage	Fill quantity (cys)	ATF
⊠1 □2 □3	🛛 NF 🗌 F	0.077 (WL01)	Yes 🗌 No	0.077	129	No
⊠1 □2 □3	🛛 NF 🗌 F	0.695 (WL02)	🛛 Yes 🗌 No	0.695	1,100	No
⊠1 □2 □3	🛛 NF 🗌 F	2.45 (WL03)	🛛 Yes 🗌 No	1.401	2,300	No
□1 □2 ⊠3	🗆 NF 🖾 F	1.24 (WL03)	🛛 Yes 🗌 No	0.244	400	No
⊠1 □2 □3	🛛 NF 🗌 F	19.38 (WL04)	🖾 Yes 🛛 No	8.078	13,000	No
□1 □2 ⊠3	🗆 NF 🖾 F	1.80 (WL04)	🗌 Yes 🛛 No	0.00	0	No
Describe the type ar Gravel, Stone, Cle	nd composition of t ean Earthen Fill,	fill material to be placed in isolated Foundations for buildings, acc	d wetlands on the pro cess roads, and pa	oject site: arking lots.		
Describe the type and	d composition and	quantity (cubic yards) of material pr	oposed to be dredge	d or excavated fror	n isolated wetlands on the project	site:
No excavation of r	material is antici	pated but re-grading is anticip	ated.			
C. Bridges and Stream name	Stream Crossi	ngs - provide the following i	nformation for E	ACH structure	(Use additional sheet(s) if red	quired.)
	te					
Description of impac	13					
Length of unstream bank impacte:						
		Left side:		Right sid	de:	
Length of downstrea	m bank impacts:	Left side:		Diabt air		
Bank protection fill p	laced below the O	rdinary High Water Mark		raight sid	JC.	

Bank protection fill p	laced below	the	Ordinary	High	Water	Mark

Bank protection fill placed below the Ordinary High Water Mark:

Area of coverage:

Volume per running foot:

D. Bank Stabilization – provide the following information for EACH segment (Use additional sheet(s) if required.)
Water body name
Description of impacts
Length of shoreline or bank protection

Volume (cubic yards) of bank protection fill placed below the Ordinary High Water Mark per running foot

Area (square feet) of bank protection fill placed below the Ordinary High Water Mark

	E.	Stream Relocation
Water body name		
Description of impacts		
Length of existing channel to be relocated (linear feet)		
Length of new channel to be constructed (linear feet)		
Existing channel to be backfilled?		Type of relocation
		☐ Piping ☐ Open ☐ Channel ☐ Other:
Type of fill and volume (cubic yards)		

F. Open Water Fill
Water body name
Description of impacts
Area of water body to be filled (acres)
Type of fill and volume (cubic yards)





Kimley»Horn

ARLINGTON AVE & CO LINE RD PROPOSED DEVELOPMENT















238100579\07_historical\28_NWC Files\GIS\MXD\PermittingBasemap3.mxd Revised: 2023-06-28 By: bw







DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, LOUISVILLE DISTRICT INDIANAPOLIS REGULATORY OFFICE 8902 OTIS AVENUE, SUITE S106B INDIANAPOLIS, IN 46216

October 25, 2023

Regulatory Division North Branch ID No. LRL-2022-00935-sjk

Mr. Ryan Gershman GP-CM County Line Partners, LLC 350 Massachusetts Avenue, Suite 400 Indianapolis, Indiana 46204

Dear Mr. Gershman:

This is regarding electronic correspondence dated September 26, 2023, from Stantec requesting an Approved Jurisdictional Determination on your behalf for Wetland 4 located generally northwest of Combs Road and County Line Road in Indianapolis, Marion County, Indiana. A location map is enclosed. We have reviewed the submitted data relative to Section 404 of the Clean Water Act.

The U.S. Army Corps of Engineers exercises regulatory authority under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344) for certain activities in "waters of the United States (U.S.)." These waters include all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce.

The reported Wetland 4 is not considered to be a "water of the U.S." and is not regulated under Section 404 of the Clean Water Act. However, this determination does not relieve you of the responsibility to comply with applicable State law. We urge you to contact the Indiana Department of Environmental Management (IDEM), Office of Water Quality at wetlandsprogram@idem.in.gov to determine the applicability of State law to the wetlands mentioned above and verification of the wetland boundaries.

This letter contains an approved jurisdictional determination (JD) for your site. If you object to this JD, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this JD you must submit a completed RFA form to the Lakes and Rivers Division Office at the address on the enclosed NAP RFA form.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **December 24, 2023**.

This jurisdictional determination is valid for a period of 5 years from the date of this letter unless new information warrants revision of the determination before the expiration date. It is not necessary to submit an RFA form to the Division office if you do not object to the JD in this letter.

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation and/or jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center prior to starting work.

If we can be of any further assistance, please contact me by calling 317-543-9424 or emailing Sarah.J.Keller@usace.army.mil. Any correspondence on this matter should reference our Identification Number LRL-2022-00935-sjk.

Sincerely,

Sarah J. Keller Team Leader Indianapolis Regulatory Office

Enclosures Copy Furnished: IDEM (Wrin) Stantec (Harvey)



NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Ap	plicant: GP-CM County Line Partners LLC File Number: LRL-2022-935	Date: 10/25/2023	
At	ached is:	See Section below	
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A	
	PROFFERED PERMIT (Standard Permit or Letter of permission)	В	
	PERMIT DENIAL WITHOUT PREJUDICE	С	
	PERMIT DENIAL WITH PREJUDICE	D	
Х	APPROVED JURISDICTIONAL DETERMINATION	E	
	PRELIMINARY JURISDICTIONAL DETERMINATION	F	
SECTION I The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <u>https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/appeals/</u> or Corps regulations at 33 CFR Part 331.			
A:	INITIAL PROFFERED PERMIT: You may accept or object to the permit		
•	 ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit. OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below. 		
B:	PROFFERED PERMIT: You may accept or appeal the permit		
	ACCEPT: If you received a Standard Permit, you may sign the permit docum	ent and return it to	
	the district engineer for final authorization. If you received a Letter of Permiss accept the LOP and your work is authorized. Your signature on the Standard acceptance of the LOP means that you accept the permit in its entirety, and w appeal the permit, including its terms and conditions, and approved jurisdiction associated with the permit.	ion (LOP), you may Permit or vaive all rights to nal determinations	
•	APPEAL: If you choose to decline the proffered permit (Standard or LOP) bec terms and conditions therein, you may appeal the declined permit under the C Administrative Appeal Process by completing Section II of this form and sendi	cause of certain Corps of Engineers	

terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C. PERMIT DENIAL WITHOUT PREJUDICE: Not appealable

You received a permit denial without prejudice because a required Federal, state, and/or local authorization and/or certification has been denied for activities which also require a Department of the Army permit before final action has been taken on the Army permit application. The permit denial without prejudice is not appealable. There is no prejudice to the right of the applicant to reinstate processing of the Army permit application if subsequent approval is received from the appropriate Federal, state, and/or local agency on a previously denied authorization and/or certification.

D: PERMIT DENIAL WITH PREJUDICE: You may appeal the permit denial You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information for reconsideration

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- RECONSIDERATION: You may request that the district engineer reconsider the approved JD by submitting new information or data to the district engineer within 60 days of the date of this notice. The district will determine whether the information submitted qualifies as new information or data that justifies reconsideration of the approved JD. A reconsideration request does not initiate the appeal process. You may submit a request for appeal to the division engineer to preserve your appeal rights while the district is determining whether the submitted information qualifies for a reconsideration.

F: PRELIMINARY JURISDICTIONAL DETERMINATION: Not appealable You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision	If you have questions regarding the appeal
you may contact:	process, or to submit your request for appeal, you
Sarah Keller	may contact:
U.S. Army Corps of Engineers—Louisville District	Katherine A. McCafferty
Indianapolis Regulatory Office	Regulatory Administrative Appeals Officer
8902 Otis Avenue, S106B	U.S. Army Corps of Engineers,
Indianapolis, IN 46216	Great Lakes and Ohio River Division
(317) 543-9424	550 Main Street, Room 10780
Email: Sarah.J.Keller@usace.army.mil	Cincinnati, Ohio 45202-3222
	Office Phone: 513-684-2699, FAX: 513-684-2460
	e-mail: <u>katherine.a.mccafferty@usace.army.mil</u>

SECTION II – REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. Use additional pages as necessary. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation and will have the opportunity to participate in all site investigations.

	Date:
Signature of appellant or agent.	
Email address of appellant and/or agent:	Telephone number:



DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, LOUISVILLE DISTRICT INDIANAPOLIS REGULATORY OFFICE 8902 OTIS AVENUE, SUITE S106B INDIANAPOLIS, IN 46216

CELRL-RDN

25 OCT 2023

MEMORANDUM FOR RECORD

SUBJECT: US Army Corps of Engineers (Corps) Pre-2015 Regulatory Regime Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023),¹ LRL-2022-00935 (MFR 1 of 1)²

BACKGROUND. An Approved Jurisdictional Determination (AJD) is a Corps document stating the presence or absence of waters of the United States on a parcel or a written statement and map identifying the limits of waters of the United States on a parcel. AJDs are clearly designated appealable actions and will include a basis of JD with the document.³ AJDs are case-specific and are typically made in response to a request. AJDs are valid for a period of five years unless new information warrants revision of the determination before the expiration date or a District Engineer has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.⁴ For the purposes of this AJD, we have relied on section 10 of the Rivers and Harbors Act of 1899 (RHA),⁵ the Clean Water Act (CWA) implementing regulations published by the Department of the Army in 1986 and amended in 1993 (references 2.a. and 2.b. respectively), the 2008 Rapanos-Carabell guidance (reference 2.c.), and other applicable guidance, relevant case law and longstanding practice, (collectively the pre-2015 regulatory regime), and the Sackett decision (reference 2.d.) in evaluating jurisdiction.

This Memorandum for Record (MFR) constitutes the basis of jurisdiction for a Corps AJD as defined in 33 CFR §331.2. The features addressed in this AJD were evaluated consistent with the definition of "waters of the United States" found in the pre-2015 regulatory regime and consistent with the Supreme Court's decision in *Sackett*. This

¹ While the Supreme Court's decision in *Sackett* had no effect on some categories of waters covered under the CWA, and no effect on any waters covered under RHA, all categories are included in this Memorandum for Record for efficiency.

² When documenting aquatic resources within the review area that are jurisdictional under the Clean Water Act (CWA), use an additional MFR and group the aquatic resources on each MFR based on the TNW, interstate water, or territorial seas that they are connected to. Be sure to provide an identifier to indicate when there are multiple MFRs associated with a single AJD request (i.e., number them 1, 2, 3, etc.).

³ 33 CFR 331.2.

⁴ Regulatory Guidance Letter 05-02.

⁵ USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this MFR, jurisdiction under RHA will be referred to as Section 10.

CELRL-RDN

SUBJECT: Pre-2015 Regulatory Regime Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), LRL-2022-00935

AJD did not rely on the 2023 "Revised Definition of 'Waters of the United States,'" as amended on 8 September 2023 (Amended 2023 Rule) because, as of the date of this decision, the Amended 2023 Rule is not applicable in this state due to litigation.

- 1. SUMMARY OF CONCLUSIONS.
 - a. Provide a list of each individual feature within the review area and the jurisdictional status of each one (i.e., identify whether each feature is/is not a water of the United States and/or a navigable water of the United States).
 - i. Wetland 4 (21.18 acres), non-jurisdictional (not a waters of the U.S. and not a navigable waters of the U.S.)
- 2. REFERENCES.
 - a. Final Rule for Regulatory Programs of the Corps of Engineers, 51 FR 41206 (November 13, 1986).
 - b. Clean Water Act Regulatory Programs, 58 FR 45008 (August 25, 1993).
 - c. U.S. EPA & U.S. Army Corps of Engineers, Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States* (December 2, 2008)
 - d. Sackett v. EPA, 598 U.S. _, 143 S. Ct. 1322 (2023)
- 3. REVIEW AREA. 96 acres total (this request excludes the areas associated with the previous AJD issued for non-jurisdictional Wetlands 1, 2, and 3 on 3/1/2023); latitude 39.6396° and longitude -86.0597°; Indianapolis, Marion County, Indiana.
- NEAREST TRADITIONAL NAVIGABLE WATER (TNW), INTERSTATE WATER, OR THE TERRITORIAL SEAS TO WHICH THE AQUATIC RESOURCE IS CONNECTED. East Fork White River via flow into watershed 05120204 to the east or White River via watershed 05120201 to the west (both are on the district Section 10 list).
- 5. FLOWPATH FROM THE SUBJECT AQUATIC RESOURCES TO A TNW, INTERSTATE WATER, OR THE TERRITORIAL SEAS. Wetland 4 has been historically manipulated to alleviate flooding, resulting in two potential flow routes through two watersheds (See Section 10 of this MFR for more information). The

SUBJECT: Pre-2015 Regulatory Regime Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), LRL-2022-00935

eastern portion of the wetland flows through a culvert under Combs Road during high water events, into a city storm sewer system, that flows southeast into a series of two, non-jurisdictional, man-made stormwater ponds and then back into a pipe to Five Points Road, where the storm sewer outfalls into Grubbs Ditch southeast of the intersection of County Line Road and Five Points Road. The total flow path was determined to be approximately 0.82 miles between the wetland inlet at Combs Road and the outfall within Grubbs Ditch, the nearest potential tributary. Grubbs Ditch flows into Leatherwood Creek, Little Sugar Creek, Sugar Creek, Driftwood River, then East Fork White River (31straight-line miles between Wetland 4 and TNW).

The western portion of Wetland 4 historically flowed through a subsurface drainage tile that has been manipulated by INDOT during construction of the I-65/County Line Road interchange, allegedly resulting in reduced drainage of the general region (per statements from the tenant farmer). No evidence of subsurface drains were present within or near Wetland 4 during a Corps site inspection on 11/10/2022 or along the general mapped alignment of the alleged drainage tile per the MapIndy GIS site. The wetland would have to flow through unknown subsurface drainage tile to the west/southwest across Arlington Road and then south to County Line Road where it would need to enter a series of INDOT drainage structures to flow south into Pleasant Creek in Johnson County. The total flow distance based on available maps between Wetland 4 and Pleasant Creek flows into Pleasant Run Creek, then White River where it becomes a Section 10 water at Daviess County (94 straight-line miles between Wetland 4 and TNW)).

- 6. SECTION 10 JURISDICTIONAL WATERS⁶: Describe aquatic resources or other features within the review area determined to be jurisdictional in accordance with Section 10 of the Rivers and Harbors Act of 1899. Include the size of each aquatic resource or other feature within the review area and how it was determined to be jurisdictional in accordance with Section 10.⁷ N/A
- 7. SECTION 404 JURISDICTIONAL WATERS: Describe the aquatic resources within the review area that were found to meet the definition of waters of the United States

⁶ 33 CFR 329.9(a) A waterbody which was navigable in its natural or improved state, or which was susceptible of reasonable improvement (as discussed in § 329.8(b) of this part) retains its character as "navigable in law" even though it is not presently used for commerce, or is presently incapable of such use because of changed conditions or the presence of obstructions.

⁷ This MFR is not to be used to make a report of findings to support a determination that the water is a navigable water of the United States. The district must follow the procedures outlined in 33 CFR part 329.14 to make a determination that water is a navigable water of the United States subject to Section 10 of the RHA.

CELRL-RDN SUBJECT: Pre-2015 Regulatory Regime Approved Jurisdictional Determination in Light of Sackett v. EPA, 143 S. Ct. 1322 (2023), LRL-2022-00935

in accordance with the pre-2015 regulatory regime and consistent with the Supreme Court's decision in *Sackett*. List each aquatic resource separately, by name, consistent with the naming convention used in section 1, above. Include a rationale for each aquatic resource, supporting that the aquatic resource meets the relevant category of "waters of the United States" in the pre-2015 regulatory regime. The rationale should also include a written description of, or reference to a map in the administrative record that shows, the lateral limits of jurisdiction for each aquatic resource, including how that limit was determined, and incorporate relevant references used. Include the size of each aquatic resource in acres or linear feet and attach and reference related figures as needed.

- a. TNWs (a)(1): N/A
- b. Interstate Waters (a)(2): N/A
- c. Other Waters (a)(3): N/A
- d. Impoundments (a)(4): N/A
- e. Tributaries (a)(5): N/A
- f. The territorial seas (a)(6): N/A
- g. Adjacent wetlands (a)(7): N/A

8. NON-JURISDICTIONAL AQUATIC RESOURCES AND FEATURES

- a. Describe aquatic resources and other features within the review area identified as "generally non-jurisdictional" in the preamble to the 1986 regulations (referred to as "preamble waters").⁸ Include size of the aquatic resource or feature within the review area and describe how it was determined to be non-jurisdictional under the CWA as a preamble water. N/A
- b. Describe aquatic resources and features within the review area identified as "generally not jurisdictional" in the *Rapanos* guidance. Include size of the aquatic resource or feature within the review area and describe how it was determined to be non-jurisdictional under the CWA based on the criteria listed in the guidance. N/A

⁸ 51 FR 41217, November 13, 1986.

CELRL-RDN

SUBJECT: Pre-2015 Regulatory Regime Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), LRL-2022-00935

- c. Describe aquatic resources and features identified within the review area as waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA. Include the size of the waste treatment system within the review area and describe how it was determined to be a waste treatment system. N/A
- d. Describe aquatic resources and features within the review area determined to be prior converted cropland in accordance with the 1993 regulations (reference 2.b.). Include the size of the aquatic resource or feature within the review area and describe how it was determined to be prior converted cropland. N/A
- e. Describe aquatic resources (i.e. lakes and ponds) within the review area, which do not have a nexus to interstate or foreign commerce, and prior to the January 2001 Supreme Court decision in "*SWANCC*," would have been jurisdictional based solely on the "Migratory Bird Rule." Include the size of the aquatic resource or feature, and how it was determined to be an "isolated water" in accordance with *SWANCC*. N/A
- f. Describe aquatic resources and features within the review area that were determined to be non-jurisdictional because they do not meet one or more categories of waters of the United States under the pre-2015 regulatory regime consistent with the Supreme Court's decision in *Sackett* (e.g., tributaries that are non-relatively permanent waters; non-tidal wetlands that do not have a continuous surface connection to a jurisdictional water).

Wetland 4 does not have a continuous surface connection to a jurisdictional water and is more than 0.82 miles from the nearest potential tributary. See Section 10 of this MFR for more information.

- 9. DATA SOURCES. List sources of data/information used in making determination. Include titles and dates of sources used and ensure that information referenced is available in the administrative record.
 - a. Corps field inspections and associated site photos: 8/14/2018 (associated with LRL-2018-00726); 11/10/2022.
 - b. "Regulated Waters Delineation Report" dated June 2022 by Cardno/Stantec, including the following data/maps used to support this determination: USACE APT for 5/12/2022; USGS Topo, 7.5' Beech Grove, IN quad (Accessed 5/25/2022); NWI and HUC14 map (accessed 6/3/2022); FEMA DFIRM (accessed 5/25/2023); USDA-NRCS Web Soil Survey, Marion County (accessed 5/25/2023); 5/12/2022 site photos.

CELRL-RDN

SUBJECT: Pre-2015 Regulatory Regime Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), LRL-2022-00935

- c. Approved Jurisdictional Determination dated 3/1/2023 for Wetlands 1, 2, and 3 and associated supporting information.
- d. LiDAR (Hillshade, DEM), Section 10 waters, watershed boundary (National Regulatory Viewer, accessed 11/1/2022, 9/26/2023).
- e. 1937, 1956, 1993, 1997, 1999, 2008, 2010, 2016, 2017, 2018 aerials with city storm sewer and legal drains layers and measurements to nearest potential tributaries (MapIndy).
- f. June 2019 Google Streetview from Combs Road.
- 10. OTHER SUPPORTING INFORMATION. Wetland 4 appears in aerial photos dating back to 1937 and has been a persistent feature than experiences regular, seasonal inundation. Historically, the wetland may have flowed through a mapped subsurface drainage tile to the southwest ("Peggs Drain" as labeled on MapIndy GIS), but the presence of any subsurface drain could not be confirmed through either the 5/12/2022 delineation inspection completed by Cardno/Stantec or the Corps' site inspection on 11/10/2022. Additionally, the tenant farmer stated in 2018 that regional drainage was adversely impacted in the 1980s after INDOT constructed the County Line interchange with I-65, which made flooding worse. Off-site, subsurface flow from Wetland 4 to the west could not be verified during site inspections, and no evidence of surface flow was observed. Any potential subsurface flow path would require flow through a series of tiles, INDOT culverts, and roadside ditches to reach Pleasant Creek to the south more than 1.3 miles away from Wetland 4. In 2017, a swale was constructed to attempt to artificially drain Wetland 4 into a culvert under Combs Road to the east (into a different 8-digit HUC watershed) to alleviate flooding. Based on Corps site inspections on 8/14/2018 and 11/10/2022, water appears to enter the culvert only during extreme flooding events. Based on available maps from the MapIndy GIS system, the culvert drains into a city storm sewer system that flows through two non-jurisdictional, man-made stormwater ponds within a residential development, back into a storm sewer pipe, and eventually outfalls 0.82-mile to the east into Grubbs Drain, the nearest potential tributary. Therefore, there is no evidence that Wetland 4 possesses a "continuous surface connection" to a jurisdictional, relatively permanent body of water connected to traditional navigable waters.
- 11.NOTE: The structure and format of this MFR were developed in coordination with the EPA and Department of the Army. The MFR's structure and format may be subject to future modification or may be rescinded as needed to implement additional guidance from the agencies; however, the approved jurisdictional determination described herein is a final agency action.



DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, LOUISVILLE DISTRICT INDIANAPOLIS REGULATORY OFFICE 8902 OTIS AVENUE, SUITE S106B INDIANAPOLIS, IN 46216

March 1, 2023

Regulatory Division North Branch ID No. LRL-2022-935-sjk

Mr. Benjamin Harvey Cardno 3901 Industrial Boulevard Indianapolis, Indiana 46254

Dear Mr. Harvey:

This is regarding your electronic correspondence dated October 17, 2022, requesting a jurisdictional determination on behalf of Kimley-Horn and Associates for certain resources identified on a 96-acre site located northeast of the intersection of County Line Road and Arlington Road in Indianapolis, Marion County, Indiana. A location map is enclosed. We have reviewed the submitted data relative to Section 404 of the Clean Water Act.

The U.S. Army Corps of Engineers exercises regulatory authority under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344) for certain activities in "waters of the United States (U.S.)." These waters include all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce.

The reported isolated Wetlands 1, 2, and 3 do not appear to be used or be susceptible to use in interstate or foreign commerce. As such, the wetlands are not considered to be "waters of the U.S." and are not regulated under Section 404 of the Clean Water Act. However, this determination does not relieve you of the responsibility to comply with applicable State law. We urge you to contact the Indiana Department of Environmental Management (IDEM), Office of Water Quality at wetlandsprogram@idem.in.gov to determine the applicability of State law to the isolated wetlands mentioned above and verification of the wetland boundaries.

This letter contains an approved jurisdictional determination (JD) for your site. If you object to this JD, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this JD you must submit a completed RFA form to the Lakes and Rivers Division Office at the following address:

US Army Corps of Engineers Attn: Appeal Review Officer, CELRD-PD-REG 550 Main Street, Room 10780 Cincinnati, OH 45202-3222 In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **May 1, 2023**.

This jurisdictional determination is valid for a period of 5 years from the date of this letter unless new information warrants revision of the determination before the expiration date. It is not necessary to submit an RFA form to the Division office if you do not object to the JD in this letter.

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation and/or jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center prior to starting work.

If we can be of any further assistance, please contact me by calling 317-543-9424 or emailing Sarah.J.Keller@usace.army.mil. Any correspondence on this matter should reference our Identification Number LRL-2022-935-sjk.

Sincerely,

Sarah J. Keller Team Leader Indianapolis Regulatory Office

Enclosures Copy Furnished: IDEM (Wrin, Randolph)



892011		
NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL		
Applicant: Kimley-Horn and Associates	File Number: LRL-2022-935	Date: 3/1/2023
Attached is:		See Section below
INITIAL PROFFERED PERMIT (Standard Permit	or Letter of permission)	А
PROFFERED PERMIT (Standard Permit or Letter	of permission)	В
PERMIT DENIAL		С
X APPROVED JURISDICTIONAL DETERMINATI	ION	D
PRELIMINARY JURISDICTIONAL DETERMIN	ATION	E
SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <u>http://www.usace.army.mil/CECW/Pages/reg_materials.aspx</u> or Corps regulations at 33 CFR Part 331.		
A: INITIAL PROFFERED PERMIT: You may accept or	object to the permit.	
 ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit. OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) 		
modify the permit to address all of your concerns, (b) modify the p the permit having determined that the permit should be issued as p district engineer will send you a proffered permit for your reconsid	permit to address some of your objection previously written. After evaluating yo deration, as indicated in Section B belo	ons, or (c) not modify ur objections, the w.
B: PROFFERED PERMIT: You may accept or appeal the	permit	
• ACCEPT: If you received a Standard Permit, you may sign the permit authorization. If you received a Letter of Permission (LOP), you may signature on the Standard Permit or acceptance of the LOP means to appeal the permit, including its terms and conditions, and approximately appeared to the terms and conditions.	ermit document and return it to the dist may accept the LOP and your work is a that you accept the permit in its entiret ved jurisdictional determinations assoc	rict engineer for final authorized. Your y, and waive all rights iated with the permit.
• APPEAL: If you choose to decline the proffered permit (Standard may appeal the declined permit under the Corps of Engineers Adm form and sending the form to the division engineer. This form mu date of this notice.	l or LOP) because of certain terms and ninistrative Appeal Process by complet 1st be received by the division engineer	conditions therein, you ing Section II of this within 60 days of the
C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.		
D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.		
• ACCEPT: You do not need to notify the Corps to accept an appro of this notice, means that you accept the approved JD in its entirety	oved JD. Failure to notify the Corps wi y, and waive all rights to appeal the ap	thin 60 days of the date proved JD.
• APPEAL: If you disagree with the approved JD, you may appeal a Appeal Process by completing Section II of this form and sending by the division engineer within 60 days of the date of this notice.	the approved JD under the Corps of Er the form to the division engineer. This	gineers Administrative s form must be received
E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.		

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal	If you only have questions regarding the appeal process you may
process you may contact:	also contact:
Sarah Keller	Katherine A. McCafferty
U.S. Army Corps of Engineers—Louisville District	Regulatory Administrative Appeals Officer
Indianapolis Regulatory Office	U.S. Army Corps of Engineers,
8902 Otis Avenue, S106B	Great Lakes and Ohio River Division
Indianapolis, IN 46216	550 Main Street, Room 10780
(317) 543-9424	Cincinnati, Ohio 45202-3222
Email: Sarah.J.Keller@usace.army.mil	Office Phone: 513-684-2699, FAX: 513-684-2460
	e-mail: katherine.a.mccafferty@usace.army.mil

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	** * *		
		Date:	Telephone number:
Signature of appellant or agent.			

APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 3/1/2023

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: LRL-2022-935-sjk

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:IN County/parish/borough: Marion City: Indianapolis

Center coordinates of site (lat/long in degree decimal format): Lat. 39.6396° N, Long. -86.0597° W.

Universal Transverse Mercator:

Name of nearest waterbody: Pleasant Run Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A

Name of watershed or Hydrologic Unit Code (HUC): 05120201

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. <u>REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):</u>

Office (Desk) Determination. Date: 11/2/2022

Field Determination. Date(s): 11/10/2022

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are no "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

- a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - TNWs, including territorial seas
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters

Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: acres.

- **c. Limits (boundaries) of jurisdiction** based on: **Pick List** Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):³
 - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: The reported Wetlands 1 (0.08 ac), 2 (0.69 ac), and 3 (3.69 ac) are located in isolated depressions with no hydrologic or ecologic connection to Waters of the U.S. and are not susceptible to use in interstate or foreign commerce. As such, they are not WOUS.

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size:	Pick List
Drainage area:	Pick List
Average annual rainfa	all: inches
Average annual snow	fall: inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ☐ Tributary flows through Pick List tributaries before entering TNW.

Project waters are Pick List river miles from TNW.
Project waters are Pick List river miles from RPW.
Project waters are Pick List aerial (straight) miles from TNW.
Project waters are Pick List aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: Tributary stream order, if known:

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

	(b)	General Tributary Characteristics (check all that apply): Tributary is: Image: Natural Image: Artificial (man-made). Explain: Image: Manipulated (man-altered). Explain:
		Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
		Primary tributary substrate composition (check all that apply):
		Tributary condition/stability [e.g., highly eroding, sloughing banks].Explain:Presence of run/riffle/pool complexes.Explain:Tributary geometry:Pick ListTributary gradient (approximate average slope):%
	(c)	<u>Flow:</u> Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: . Other information on duration and volume:
		Surface flow is: Pick List. Characteristics:
		Subsurface flow: Pick List. Explain findings: Dye (or other) test performed: .
		Tributary has (check all that apply):
		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Mean High Water Mark indicated by: oil or scum line along shore objects survey to available datum; fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):
(iii)	Che Cha	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain:

Identify specific pollutants, if known:

.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
- (b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Pick List**. Explain:

Surface flow is: Pick List Characteristics:

Subsurface flow: **Pick List**. Explain findings: Dye (or other) test performed:

(c) <u>Wetland Adjacency Determination with Non-TNW:</u>

- Directly abutting
- Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - Ecological connection. Explain:
 - Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: **Pick List**. Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: . Identify specific pollutants, if known: .

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List** Approximately () acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- **3.** Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
- 2. <u>RPWs that flow directly or indirectly into TNWs.</u>
 - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
 - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
Provide estimates for jurisdictional waters in the review area (check all that apply):

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
 - Identify type(s) of waters:
- 3. Non-RPWs⁸ that flow directly or indirectly into TNWs.
 - Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
 - Identify type(s) of waters:

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

- 7. Impoundments of jurisdictional waters.⁹
 - As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
 - Demonstrate that impoundment was created from "waters of the U.S.," or
 - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
 - Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain:
- Other factors. Explain:

Identify water body and summarize rationale supporting determination:

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).
 - Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: 4.46 acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Wetland delineation report dated June 2022 by Cardno.

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

 \square Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps:

Corps navigable waters' study:

U.S. Geological Survey Hydrologic Atlas:

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: 7.5' Beech Grove quad (delineation report).

USDA Natural Resources Conservation Service Soil Survey. Citation: Web Soil Survey, Marion County (delineation report).

National wetlands inventory map(s). Cite name: map in delineation report.

State/Local wetland inventory map(s):

FEMA/FIRM maps: panel 18081C0039E eff date 1/29/2021 and Panel 18097C0264F eff date 4/19/2016 (delineation report).

100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): undated aerial in delineation report; 3/29/2016, 6/18/2016, 8/25/2017, 9/5/2017, 5/10/2018, 5/11/2018, 11/19/2021, 9/15/2022 (DigitalGlobe); 1937, 1941, 1956, 1972, 1978, 1979, 1986, 1993, 1995, 1997, 1999, 2000,

2001, 2002, 2003, 2005, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 (MapIndy); Google Streetview 2019 .

or 🔀 Other (Name & Date): Site photos in delineation report (9/14/2022); USACE site photos (11/10/2022).

Previous determination(s). File no. and date of response letter:

Applicable/supporting case law:

Applicable/supporting scientific literature:

Other information (please specify):LiDAR DEM/Hillshade (NRV); WETS data (dleineation report); Fall 2017 aerial with storm sewers and county regulated drains; Approved JD issued for western adjacent parcel, LRL-2022-181; administrative record for previous action on parcel to north, LRL-2018-726.

B. ADDITIONAL COMMENTS TO SUPPORT JD: Wetland 1, 2 and 3 are located in depressions near or adjacent to road infrastructure that do not flow outside of their respective boundaries. A county regulated drain named "Peggs" is mapped south of the location of Wetland 3. A breather structure is present in the vicinity of dp03, and the USACE site inspection noted an inlet structure on the east side of Arlington Road across from dp03. However, Wetland 3 appears to be contained within its depressional area and would not enter the potential subsurface tile.

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife Early Coordination/Environmental Assessment

DNR#: ER-25606

Request Received: May 8, 2023

Requestor:

Ben Blocher Stantec 3901 Industrial Boulevard Indianapolis, IN 46254

Project:

Development of a property for future warehouse and retail space, including the construction of parking space, sidewalks, and structure foundations, northwest of the Arlington Avenue and County Line Road intersection

County/Site Info: Marion County

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

Regulatory Assessment:

Formal approval by the Department of Natural Resources under the regulatory programs administered by the Division of Water is not required for this project.

Natural Heritage Database:

The Natural Heritage Program's data have been checked. A Bald Eagle (*Haliaeetus leucocephalus*) nest has been documented within 0.5 miles of the project.

Fish and Wildlife Comments:

Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts. The following are recommendations that address potential impacts identified in the proposed project area:

A) Heritage Species:

The documented Bald Eagle nest near the project area was destroyed by natural causes in 2021. No significant negative effects are expected.

B) Site Layout / Conservation Design:

No preliminary site layout was provided for review making it difficult to comment on how the proposed development will impact fish, wildlife, and botanical resources. There are a number of forested and wetland areas within the project limits that are likely important habitat sites in a rapidly developing urban area. It is understood that some of the forested and wetland areas will be preserved as green space and that a 10 acre area will be planted along the northern boundary of the property but none of those details were provided for review. The Division of Fish and Wildlife recommends that the developer further explore ways to minimize and avoid impacts using conservation design principles and practices. Conservation design is a design system that takes into account the natural landscape and ecology of a development site and facilitates development while

maintaining the most valuable natural features and functions of the site. Conservation design includes a collection of site design principles and practices that can be combined to create environmentally sound development. The main principles for conservation design are flexibility in site design and lot size, thoughtful protection and management of natural areas, reduction of impervious surface areas, and sustainable stormwater management. The following link is a good introduction to the concept of conservation design: https://www.cmap.illinois.gov/about/2040/supporting-materials/process-archive/strategy-papers/conservationdesign/principles-and-practices

C) Existing Pond:

Submitted maps and aerial photos appear to show a pond in the northwest corner of the project area. Ponds can be important habitat features in urban areas. Avoiding impacts to the pond is recommended if possible. The Division of Fish and Wildlife has guidelines available for private pond management on our website: https://www.in.gov/dnr/fish-and-wildlife/fishing/private-pond-and-lake-management/.

D) Wetlands:

Several of the areas identified as wetlands often maintain surface water for extended periods. The forested areas around these wetlands provide an important refuge to wetland species in an otherwise urban landscape. Avoiding wetlands and nearby forested areas will significantly reduce impacts to wildlife. We recommend contacting and coordinating with the Indiana Department of Environmental Management (IDEM) 401 program (https://www.in.gov/idem/wetlands/2344.htm) and the US Army Corps of Engineers (USACE) 404 program (https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/Obtain-a-Permit/) to discuss wetland issues. Impacts to wetlands should be mitigated at the appropriate ratio if required (see http://iac.iga.in.gov/iac/20200527-IR-312200284NRA.xml.pdf).

E) Urban Tree Removal:

The Division of Fish and Wildlife recommends avoiding removing urban trees to the greatest extent possible and replacing trees that must be removed. Urban trees are important to fish and wildlife resources in urban areas. Indiana's urban trees also provide millions of dollars of tangible benefits to Indiana communities by their presence in the urban environment. Their shade and beauty contribute to the quality of life. They provide significant increases in real estate values, create attractive settings for commercial businesses, and improve community neighborhood appeal. Trees decrease energy consumption by providing shade and acting as windbreaks. They reduce water treatment costs and impede soil erosion by slowing the runoff of stormwater. Trees also cool the air temperature, cleanse pollutants from the air, and produce oxygen while absorbing carbon dioxide. Trees are an integral component of the urban environment. Proactively managing and maintaining a street tree population will ultimately maximize the benefits afforded by their aesthetic and ecological functions. The following links give a good overview of the benefits of urban tree conservation and how to select the right species to avoid the negative impacts of non-native invasive species such as the common and popular Bradford pear: https://www.in.gov/dnr/forestry/forestry-publications-and-presentations/ (scroll down to the Community & Urban Forestry section).

F) Drainage and Stormwater Management:

The Division of Fish and Wildlife recommends considering a more sustainable approach to stormwater management. The traditional model of stormwater management aims to drain runoff as quickly as possible with the help of channels and pipes, which increases peak flows and costs of stormwater management. This type of solution only transfers drainage problems from one section of a basin to another. A more sustainable approach should aim to rebuild the natural water cycle by using storage techniques (retention basins, constructed wetlands, raingardens, etc.) and recharging groundwater using infiltration techniques (infiltration basins or trenches, pervious pavement, etc.). The following links give a good overview of traditional and sustainable stormwater management systems and their pros and cons for consideration during the design of the proposed project: https://www.epa.gov/greeningepa/epa-facility-stormwater-management;

https://www.epa.gov/greeningepa/stormwater-management-practices-epa-facilities.

G) Landscaping:

Consider using native plants for any proposed on-site landscaping and revegetation. The following is a link to information on landscaping with native plants on the Indiana Native Plant Society (INPS) website: https://indiananativeplants.org/landscaping/.

H) LED Lighting:

Most developers are trending toward LED lighting. Certain types of LED lighting can have negative impacts on both human and wildlife health and safety. Scientific evidence suggests that artificial light at night has negative and deadly effects on many organisms including amphibians, birds, mammals, insects and plants (https://www.darksky.org/light-pollution/wildlife/). A June 2016 American Medical Association (AMA) report, "Human and Environmental Effects of Light Emitting Diode Community Lighting," concluded that "white LED street lighting patterns may contribute to the risk of chronic disease in the populations of cities in which they have been installed."

The International Dark-Sky Association has developed recommendations (https://www.darksky.org/ourwork/lighting/lighting-for-citizens/led-guide/) for communities choosing LED lighting systems that will aid in the selection of lighting that is energy and cost efficient, yet ensures safety and security, protects wildlife, and promotes the goal of reducing light pollution:

- Always choose fully shielded fixtures that emit no light upward.

- Use "warm-white" or filtered LEDs (CCT < 3,000 K; S/P ratio < 1.2) to minimize harmful blue light emission.
- Look for products with adaptive controls like dimmers, timers, and motion sensors.
- Consider dimming or turning off lights during non-peak overnight hours.
- Avoid the temptation to over-light because of the higher luminous efficiency of LEDs.
- Only light the exact space and in the amount required for particular tasks.

The additional measures listed below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

- Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Central Indiana as soon as possible upon completion; turftype grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only. A native herbaceous seed mixture must include at least 5 species of grasses and sedges and 5 species of wildflowers.
- 2. Minimize and contain within the project limits all tree and brush clearing.
- 3. Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (3 inches or greater diameter-at-breast height, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 4. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the waterbody or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 5. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
- 6. Plant five trees, 1 inch to 2 inches in diameter-at-breast height, for each tree which is removed that is 10 inches or greater in diameter-at-breast height.
- 7. Do not excavate or place fill in any riparian wetland.

Contact Staff:

Our agency appreciates this opportunity to be of service. Please contact me at mbuffington@dnr.in.gov or (317) 233-4666 if we can be of further assistance.

Matt Buffington

Date: June 5, 2023

Matt Buffington Environmental Unit Supervisor Division of Fish and Wildlife

Regulated Waters Delineation Report

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

June 2022



now



Document Information

Prepared for	Kimley-Horn and Associates
Client Contact	Alen Fetahagic
Project Name	Regulated Waters Delineation Report Northeast Parcel of County Line and Arlington, Indianapolis, Marion County, Indiana
Project Number	J193137M36
Cardno Contact	Ben Harvey, PWS
Date	June 2022



Expect More. Experience Better.

Kimley-Horn and Associates 250 East 96th Street, Suite 580, Indianapolis, IN 46240

Prepared by:



now



Cardno, Inc. 3901 Industrial Boulevard, Indianapolis, Indiana 46254

Table of Contents

1	Introdu	ction		.5			
2	Regulat	ulatory Definitions6					
	2.1 Wetlands						
		2.1.1	Hydrophytic Vegetation	. 6			
		2.1.2	Hydric Soils	. 7			
		2.1.3	Wetland Hydrology	. 7			
		2.1.4	Wetland Definition Summary	. 8			
	2.2	Streams,	Rivers, Watercourses & Jurisdictional Ditches	. 8			
3	Backgr	ound Info	rmation	.9			
	3.1	Existing M	1aps	. 9			
		3.1.1	National Wetland Inventory	. 9			
		3.1.2	National Flood Hazard Layer	. 9			
		3.1.3	Stream Stats Basin Analysis	. 9			
		3.1.4	National Hydrography Dataset	. 9			
		3.1.5	Soil Survey 1	10			
	3.2	Climate D	ata1	11			
4	Method	ology and	d Description1	2			
	4.1	Regulated	d Waters Investigation1	12			
		4.1.1	Site Photographs1	12			
		4.1.2	Delineation Data Sheets 1	12			
		4.1.3	Stream Data Sheets1	12			
	4.2	Technical	Descriptions 1	13			
		4.2.1	Data Point and Wetland Descriptions1	13			
5	Jurisdie	ctional Ar	nalysis1	9			
	5.1	U.S. Army	/ Corps of Engineers 1	19			
	5.2	Indiana D	epartment of Environmental Management1	19			
		5.2.1	401 Water Quality Certification 1	19			
		5.2.2	Isolated Wetland Law1	19			
	5.3	Indiana D	epartment of Natural Resources2	20			
6	Summa	ry and Co	onclusion2	21			
	6.1	Summary		21			
		6.1.1	Wetlands and Waterways2	21			
		6.1.2	Floodways and Floodplains2	21			
	6.2	Conclusio	ın2	21			
7	Referer	nces		22			

Tables

Table 3-1	Soil Types Within the Northeast Parcel of County Line and Arlington Study Area	0
Table 3-2	Calculation of Normal Weather Conditions (WET) 1	1
Table 6-1	Features Identified Within the Northeast Parcel of County Line and Arlington Study Area	1

Appendices

Appendix A	Figures
Figure 1 Figure 2 Figure 3 Figure 4 Figure 5	Project Location NWI & Watershed Construction in a Floodway Constraints Soil Survey & NHD Delineated Features
Appendix B	Site Photographs
Appendix C	Wetland Delineation Data Sheets – Midwest Region

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
ТОВ	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 nonwetlands. These plants predominately occur with hydric soils, often in geomorphic settings where water saturates the soils or floods the soil surface at least seasonally.

FAC (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.

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.

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.

Symbol	Description	Hydric
CrA	Crosby silt loam, fine-loamy subsoil,0 to 2 percent slopes	No
MmB2	Miami silt loam, 2 to 6 percent slopes, eroded	No
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

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

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

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 normal 10 to 14: normal 15 to 18: wetter than normal		<u>conditior</u> (1) Dry (2) Norm (3) Wet	al	<u>.</u>			
						*Sum:	13

 Table 3-2
 Calculation of Normal Weather Conditions (WET)

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.

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 Site Photographs

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 **Delineation Data Sheets**

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 Data Point and Wetland Descriptions

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

Feature	USGS/NWI Identified	l Feature	Regulatory Status ²	Dimensions (FT)		QHEI/HHEI	Linear Feet	Acreage
Name		Class ¹		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
τοτα	10	S WETLAND		PEM		Non-JD		22.60
				PFO				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.

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

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.

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.
- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at <u>http://websoilsurvey.nrcs.usda.gov/.</u> Accessed [8/8/2022].
- StreamStats, United States Geological Survey. Available online at <u>https://streamstats.usgs.gov.</u> Accessed [8/8/2022].
- U.S. Army Corps of Engineers 2018. National Wetland Plant List, version 3.4 <u>http://wetland-plants.usace.army.mil/</u> U.S. Army Corps of Engineers Engineer Research and Development Center Cold Regions Research and Engineering Laboratory, Hanover, NH
- U.S. Drought Monitor. 2021. U.S. Drought Monitor. Website: <u>http://droughtmonitor.unl.edu/</u>. Site Accessed [8/8/2022].

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













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

APPENDIX

SITE PHOTOGRAPHS


DP01, View Looking North



DP01, View Looking East



DP01, View Looking South



DP01, View Looking West





DP02, View Looking North



DP02, View Looking East



DP02, View Looking South



DP02, View Looking West





DP03, View Looking North



DP03, View Looking East



DP03, View Looking South



DP03, View Looking West





DP04, View Looking North



DP04, View Looking East



DP04, View Looking South



DP04, View Looking West





DP05, View Looking North



DP05, View Looking East



DP05, View Looking South



DP05, View Looking West

Site Photographs County Line Road and S. Arlington Ave, Northeast Parcels Regulated Waters Delineation Report Kimely-Horn and Associates Marion County, Indiana



J193137M36



DP06, View Looking North



DP06, View Looking East



DP06, View Looking South



DP06, View Looking West

Site Photographs County Line Road and S. Arlington Ave, Northeast Parcels Regulated Waters Delineation Report Kimely-Horn and Associates Marion County, Indiana



Project Numbe J193137M36



DP07, View Looking North



DP07, View Looking East



DP07, View Looking South



DP07, View Looking West





DP08, View Looking North



DP08, View Looking East



DP08, View Looking South



DP08, View Looking West





DP09, View Looking North



DP09, View Looking East



DP09, View Looking South



DP09, View Looking West





DP10, View Looking North



DP10, View Looking East



DP10, View Looking South



DP10, View Looking West

Cardno

Site Photographs County Line Road and S. Arlington Ave, Northeast Parcels Regulated Waters Delineation Report Kimely-Horn and Associates 3901 Industrial Blvd. Indianapolis, IN 46254 USA Phone (+1) 317-388-1982 Fax (+1) 317-388-1982 Marion County, Indiana www.cardno.con



DP11, View Looking North



DP11, View Looking East



DP11, View Looking South



DP11, View Looking West





DP12, View Looking North



DP12, View Looking East



DP12, View Looking South



DP12, View Looking West





DP13, View Looking North



DP13, View Looking East



DP13, View Looking South



DP13, View Looking West





DP14, View Looking North



DP14, View Looking East



DP14, View Looking South



DP14, View Looking West





DP15, View Looking North



DP15, View Looking East



DP15, View Looking South



DP15, View Looking West





DP16, View Looking North



DP16, View Looking East



DP16, View Looking South



DP16, View Looking West





DP17, View Looking North



DP17, View Looking East



DP17, View Looking South



DP17, View Looking West



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

APPENDIX

WETLAND DELINEATION DATA SHEETS – MIDWEST REGION

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: dp01
Investigator(s):	Ben Hess & Paige Eichelberger				Section, Townsh	ip, Range: S23 T14N R4E
Landform (hillslope	, terrace, etc.):				Loca	al relief (concave, convex, none): none
Slope (%):	1% Lat:	39.63984257		Long:	-8	6.06345175 Datum: NAD83 UTM16N
Soil Map Unit Nam	e: Treaty silty clay loam, 0 to 1 percent slopes (Thr	A)				NWI classification: none
Are climatic / hydro	logic conditions on the site typical for this time of y	ear?		Yes	X No	(If no, explain in Remarks.)
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	l, explain any answers in Remarks.)
SUMMARY OF	FINDINGS Attach site map showing	sampling point locations,	transects, imp	portant featur	res, etc.	
Hydrophytic Ve	getation Present?	Yes x	No	Is the	Sampled Ar	ea
Hydric Soil Pres	sent?	Yes x	No	within	n a Wetland?	Yes <u>x</u> No
Wetland Hydrol	ogy Present?	Yes <u>x</u>	No			
Remarks:						
VEGETATION	Use scientific names of plants.					
Tree Office (C)			Absolute	Dominant	Indicator	
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:
2			<u> </u>			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: 2 (B)
						()
Sapling/Shrub Stra	tum (Plot size: 15' radius)					Percent of Dominant Species
1.						That Are OBL, FACW, or FAC: 100% (A/B)
2.						
3.						
4.				·		Prevalence Index worksheet:
5.						
				= Total Cover		Total % Cover of: Multiply by:
						That Are OBL, FACW, or FAC: A/B
Herb Stratum (Plot	t size: 5' radius)	-	50/		FACIN	OBL species X1 = EA OW x00 0.00
1. Alopecurus car	vina		5%	Yes Voc	FACW	FAC w species 10% $x2 = 0.20$
3	ji na		578	163	1700	FACUspecies x4 -
4.			<u> </u>	·		UPL species x5 =
5.						Column Totals: 10% (A) 0.20 (B)
6.				·		
7.			_			Prevalence Index = B/A = 2.00
8.						
9.						
10.						Hydrophytic Vegetation Indicators:
11						
12.						X 1-Rapid Test for Hydrophytic Vegetation
13						X 2-Dominance Test is >50%
14.						x 3-Prevalence index is ≤3.0°
15.						
10.						data in Kemarks or on a separate sneet) Problematic Hydrophytic Vegetation ¹ (Evolution)
18			<u> </u>	·		
19.						¹ Indicators of hydric soil and wetland hydrology must
20.				·		be present, unless disturbed or problematic
			10%	= Total Cover		
L						
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic
1.	· · · ·					Vegetation
2.						Present? Yes X No
				= Total Cover		
Remarks: (Include	photo numbers here or on a separate sheet.)					

Color (moist) % Color (moist) % Type ¹ Loc ² Te 0-16" 10YR 5/1 98 10YR 5/6 2 C M Laam 1 10YR 5/1 98 10YR 5/6 2 C M Laam 1 10YR 5/1 98 10YR 5/6 2 C M Laam 1 10YR 5/1 98 10YR 5/6 2 C M Laam 1 10YR 5/1 98 10YR 5/6 2 C M Laam 1 10YR 5/1 98 10YR 5/6 2 C M Laam 1 10YR 5/1 5 3 10YR 5/6 2 C M Laam 1 10YPE 2 C Startafield Layers (AS) 10YR 5/6	Texture Remarks n
Di-16" 10YR 5/1 98 10YR 5/6 2 C M Loam Type: C 0YR 5/1 98 10YR 5/6 2 C M Loam Type: C 0YR 5/1 98 10YR 5/6 2 C M Loam Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=P yfrit Soll Indicators?: Test Indicator Test Indicator Test Indicator Histos (A1) Sandy Gleyed Matrix (S6)	=Pore Lining, M=Matrix. iors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
OT 1011 Cut 00 1011 Cut 1	Pore Lining, M=Matrix. :ors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=P dric Soil Indicators ¹ : Test Indicator Histoso (A1) Sandy Gleyed Matrix (S4) Histoso (A1) Dark Surface (S7) Black Histic (A3) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Mucky Mineral (F1) 5 cm Mucky Peat or Peat (S3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) in: strictive Layer (If observed): Type:	=Pore Lining, M=Matrix. :ors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Ype: C-Concentration, D-Depletion, RM-Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locator: PL-P. Yre: C-Concentration, D-Depletion, RM-Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locator: PL-P. Histos Elpedon (A2) Sandy Gleyed Matrix (S4) Histos Elpedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Suttide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Boark Surface (F6) ³ The 1 S ond Mucky Mineral (S1) Depleted Dark Surface (F7) S ond Mucky Mineral (S1) Redox Depressions (F8) strictive Layer (if observed): Type: Type:	=Pore Lining, M=Matrix. :ors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=P Afric Soil Indicators ¹ : Test Indicator Histosol (A1) Sandy Redox (S5) Histosol (A2) Sandy Redox (S5) Black Histosi (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Mucky Mineral (F2) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Stratified Layers (If observed): Trype: Type: Depleted Selow Dark Surface (T7) Surface Water (A1) Water-Stained Leaves (B9) X High Water Table (A2) Aquatic Fauna (B13) Second Sec	=Pore Lining, M=Matrix. tors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Send Grains. ² Location: PL=P rdric Soil Indicators?: Test Indicator Histosol (A1) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S4) Hydrogen Suffide (A4) Dark Surface (S7) Stratified Layers (A6) Loarny Mucky Mineral (F1) 2 cm Muck (A10) Loarny Mucky Mineral (F2) Depleted Below Dark Surface (A11) X Stratified Layers (A5) Loarny Mucky Mineral (S1) Depleted Dealew Dark Surface (A12) Redox Dark Surface (F6) S cm Mucky Peat or Peat (S3) Redox Depressions (F8) in 1 strictive Layer (if observed): Type: Depleted Matrix (S1) Second YDROLOGY Etficit (A2) Aquatic Fauna (B13) X K Sufface Water (A1) Water-Stained Leaves (B9) X K Sufface Water (A1) Water Atalice Odor (C1) Second YPROLOGY Muck (A10) Yet (A10) Second Water Marks (B1) Hydrogen Sufface (A2) Aquatic Fauna (B13) X K Sufface Water (A1) Hydrogen Sufface (A2) Aquatic Fauna (B13) X <t< td=""><td>=Pore Lining, M=Matrix. tors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)</td></t<>	=Pore Lining, M=Matrix. tors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=P; ydric Soil Indicators ¹ : Test Indicator Histosol (A1) Sandy Redox (S5) Sandy Redox (S5) Histo Spiepdon (A2) Sandy Redox (S5) Sandy Redox (S5) Stratified Layers (A5) Loamy Mucky Mineral (F1) Sandy Gleved Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A2) Loamy Gleved Matrix (F3) Thick Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Thick Dark Surface (F7) cor Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) cor cor Sort Mucky Peat or Peat (G3) Redox Dark Surface (F8) in : strictive Layer (if observed): Type: peptied Interface fmar Depth (inches): High Water Table (A2) Aquatic Fauna (B13) X K Sufface Water (A1) Water Stained Leaves (B9) X High Water Table (A2) Aquatic Fauna (B13) X K Sufface Or Sufface Or Sufface (C1) Sector Sector Sediment Deposits (B2) Oxidized Rhizospheres on Living	=Pore Lining, M=Matrix. tors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Type: Concentration, D=Depletion, RM=Reduced Matrix, CS=Coverd or Coated Sand Grains. *Location: PL=P; ydric Soil Indicators ³ : Test Indicator Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Bolow Dark Surface (A11) X Depleted Bolow Dark Surface (A12) Redox Dark Surface (F6) Standy Mucky Mineral (S1) Depleted Dark Surface (F7) Standy Mucky Mineral (S1) Depleted Dark Surface (F7) Strictive Layer (If observed): Type: Type: Depleted Matrix (S1) Depleted Vark Surface (F1) Strictive Layer (If observed): Type: Matrix (S1) Matrix (S1) Matrix Fauna (B13) Strictive Layer (If observed): True Aquatic Plants (B14) YBROLOGY Mater Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (C1) Striace Water (A1) Water Marks (B1) Mydrogen Sulfide Odor (C1) Matrix Arks (B1) Striace Water (A1) Hydrogen Su	Pore Lining, M=Matrix. tors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Type: Calconentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=P. ydric Soll Indicators?: Test Indicator Test Indicator Histos (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S4) Dark Surface (S7) Sandy Redox (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Calcany Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Thick Dark Surface (A11) X Sandy Mucky Mineral (S1) Depleted Matrix (F3) Redox Dark Surface (F7) cord 5 cm Mucky Peet or Peat (S3) Redox Depressions (F8) in: in: estrictive Layer (if observed): Type: Depleted Dark Surface (A12) X YDROLOGY Secorr X Saturation (A3) X X surface Water (A1) Water-Stained Leaves (B9) X X X Saturation (A3) True Aquatic Plans (B14) X X Y breace Water (A1) Water Gauna (B13) X X X X Saturation (A3) True Aquatic Plans (B14) X	Pore Lining, M=Matrix. tors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Test Indicators ¹ : Test Indicators Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5)	tors of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Thick Dark Surface (A12) Redox Dark Surface (F6) S andy Mucky Mineral (S1) Depleted Dark Surface (F7) S andy Mucky Mineral (S1) Depleted Dark Surface (F7) s andy Mucky Mineral (S1) Depleted Dark Surface (F7) s andy findextors: marks: YDROLOGY etitad Hydrology Indicators: marks: YDROLOGY etitad Hydrology Indicators: High Water Table (A2) A guatic Fauna (B13) X X Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Suffide Odor (C1) Second (C3) S aduration (A3) True Aquatic Plants (B14) Mark Marks (B1) Water Marks (B2) Oxidized Rhizospheres on Living Roots (C3) Doridized Rhizospheres on Living Roots (C3) Setument (A3) True Aquati	Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) X Depleted Below Dark Surface (A11) X Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Dark Surface (F7) estrictive Layer (if observed): Type: Type: Depleted Dark Surface (F8) marks: Water-Stained Leaves (B9) X Surface Water (A1) X Surface Water (A1) YDROLOGY Water-Stained Leaves (B9) Y X Yuter Soil Presemarks: Hydric Soil Presemarks: YDROLOGY Vater Arabic (A2) Yuter Marks (B1) Hydrogen Sulfide Odor (C1) X Saturation (A3) True Aquatic Flants (B13) X Saturation (A3) Presence of Reduced Iron (C4) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Presence of Reduced Iron (C4)	Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loarny Mucky Mineral (F1) 2 cm Muck (A10) Loarny Mucky Mineral (F2) Depleted Below Dark Surface (A11) X Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) com Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type: Pepth (inches): Depth (inches): Hydric Soil Pres mmarks: Water A11 YDROLOGY Water A11 Ydride Water (A1) Water-Stained Leaves (B9) X Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) X Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Secons (C3) Drift Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) X Algal Mat or Crus (B4) Recent Iron Reduction in Tilled Soils (C6) X Iron Deposits	Other (Explain in Remarks)
Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) 3 The I Sandy Mucky Mineral (S1) Co Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type: Depleted Dark Surface (R7) Depleted Dark Surface (F7) cor stratictive Layer (if observed): Type: Type: Deplet (inches): Deplet dHark Surface (R1) Water-Stained Leaves (B9) X Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) X Surface Water (A1) Hydrogen Sulfide Odor (C1) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Aqiagi Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Iron Deposits (B5) Thin Muck Surface (C7) Startartion Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave	_
Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type:	
2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³ The I Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) coil 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) in : estrictive Layer (if observed): Type:	
Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ⁵ The f Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) cor s cm Mucky Peat or Peat (S3) Redox Depressions (F8) in r estrictive Layer (if observed): Type:	
Thick Dark Surface (A12) Redox Dark Surface (F6) ³ The I Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) coi 6 cm Mucky Peat or Peat (S3) Redox Depressions (F8) in : estrictive Layer (if observed): Type:	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) coi 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) in estrictive Layer (if observed): Type:	e hydric soil indicators have been updated to
	comply with the Field Indicators of Hydric Soils
Type:	in the United States, Version 8.0, 2016.
Type:	
Hydric Soil Pres Pepth (inches):	
Depth (inches).	rocont? Voc V No
rimary Indicators (minimum of one is required: check all that apply) Secon X Surface Water (A1) Water-Stained Leaves (B9) X High Water Table (A2) Aquatic Fauna (B13) X X Saturation (A3) True Aquatic Plants (B14) X Water Marks (B1) Hydrogen Sulfide Odor (C1) X X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) X Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Iron Deposits (B5) Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) eld Observations: urface Water Present? Yes No Depth (inches): 1" vater Table Present? Yes No Depth (inches): >18" Wetland Hydrology Presence ncludes capillary fringe) wetland lybrology Presence wetland lybrology Presence Surface	
X Surface Water (A1) Water-Stained Leaves (B9) X High Water Table (A2) Aquatic Fauna (B13) X X Saturation (A3) True Aquatic Plants (B14) X Water Marks (B1) Hydrogen Sulfide Odor (C1) X X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Y Drift Deposits (B3) Presence of Reduced Iron (C4) X Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Iron Deposits (B5) Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) X Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) X Burface Water Present? Yes No Depth (inches): 1" Vater Table Present? Yes No Depth (inches): >18" Water Table Present? Yes No Depth (inches): Surface Wetland Hydrology Presence No Depth (inches): Surface Wetland Hydrology Presence Saturation Present? Yes No Depth (inches): Surface Wetland Hydrology Presence <th>condary Indicators (minimum of two required)</th>	condary Indicators (minimum of two required)
High Water Table (A2) Aquatic Fauna (B13) X Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Bufface Water Present? Yes Yes No Depth (inches):1" Vater Table Present? Yes No Saturation Present? Yes No Depth (inches):1" Wetland Hydrology Presence includes capillary fringe) Depth (inches): Surface Wetland Hydrology Presence Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Soil Cracks (B6)
X Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Bufface Water Present? Yes Yes No Saturation Present? Yes Yes No Depth (inches): 1" Water Table Present? Yes Yes No Depth (inches): Surface Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Surface Bacorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drainage Patterns (B10)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Depth (inches): <u>1"</u> Surface Water Present? Yes X No Vater Table Present? Yes X Depth (inches): <u>>18"</u> Saturation Present? Yes X No Depth (inches): jurface Wetland Hydrology Prese Inchudes capillary fringe) Depth (inches): jurface Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: User Table Present? Yes No Depth (inches): Vater Table Present? Yes Yes No Depth (inches): Surface Water Table Present? Yes Yes No Depth (inches): Surface Wetland Hydrology Prese ncludes capillary fringe) Depth (inches): surface Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	_ Cravfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Use the state of the state	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Iron Deposits (B5) Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Understand Surface Water Present? Yes No Vater Table Present? Yes No Yes No Depth (inches): >1" Water Table Present? Yes No Depth (inches): >18" Gauge capillary fringe) Wetland Hydrology Presence Wetland Hydrology Presence Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Statianal photos, previous inspections), if available:	_ Stunted or Stressed Plants (D1)
Algan Match Ordst (D4) Intervent Individuation In The double (D5) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Use the state of the st	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Other (Explain in Remarks) Surface Water Present? Yes X Vater Table Present? Yes No Depth (inches): 1" Vater Table Present? Yes No Depth (inches): >18" Gaturation Present? Yes X Depth (inches): >18" Gaturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Presencludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	EAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Ield Observations: Other (Explain in Remarks) Jurface Water Present? Yes X No Depth (inches): 1" Vater Table Present? Yes No X Depth (inches): >18" Vater Table Present? Yes No X Depth (inches): >18" Vater Table Present? Yes X No Depth (inches): >18" Vater Table Present? Yes X No Depth (inches): Surface Metland Hydrology Present? Yes X No Depth (inches): Surface Wetland Hydrology Present No Depth (inches): Surface Surface Wetland Hydrology Present Surface No Depth (inches): Surface Surface Wetland Hydrology Present No Depth (inches): Surface Surface Wetland Hydrology Present No Depth (inches): Surface Surface Wetland Hydrology Present No Depth (inches): Surface Surface Surface Describe Re	
ield Observations:	
ield Observations: burface Water Present? Yes X No Depth (inches): 1" Vater Table Present? Yes No X Depth (inches): >18" Vater Table Present? Yes X No X Depth (inches): >18" Vater Table Present? Yes X No X Depth (inches): Surface Wetland Hydrology Prese vaturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Prese ncludes capillary fringe) Depth (inches): Surface Wetland Hydrology Prese Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Surface Water Present? Yes X No Depth (inches): 1" Vater Table Present? Yes No X Depth (inches): >18" Saturation Present? Yes X No Depth (inches): >18" Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Prese Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Prese Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Prese Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Prese Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Prese Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Surface Surface	
Vater Table Present? Yes No X Depth (inches): >18" Baturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Prese Includes capillary fringe) Depth (inches): Surface Surface Wetland Hydrology Prese Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Caturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Prese ncludes capillary fringe)	
ncludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	sent? Yes X No
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

Project/Site:	Northeast Corner of County Line & Arlington			City/County	: Indianapolis/Ma	arion S	ampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn			State	: IN	Sampling Point:	dp02
Investigator(s):	Ben Hess & Paige Eichelberger				Section, Townshi	ip, Range: S23 T14N R4E	
Landform (hillslope	e terrace, etc.):				Loca	I relief (concave, convex, none); nor	ne
Slope (%):	1% Lat:	39.63953101		Lona:	-86	5.06330334	Datum: NAD83 UTM16N
Soil Map Unit Nam	e: Crosby silt loam, fine-loamy subsoil. 0 to 2 perce	nt slopes (CrA)				NWI classifica	ation: none
Are climatic / hvdro	logic conditions on the site typical for this time of v	ear?		Yes	X No	(If no explain in Remarks)	
Are Vegetation	N Soil N	or Hydrology N	significantly dist	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation		or Hydrology N	naturally proble	matic?	/If needed	explain any answers in Remarks)	
	EINDINGS Attach site man showing	N		ortont footur			
SUMMART UP	Findings Attach site map showing	sampling point locations, th	ansects, imp		es, elc.		
Hydrophytic Ve	getation Present?	Yes N	0 <u> </u>	IS the	Sampled Ar	ea	No
Wetland Hydrol	logy Present?	Ves N		within		Tes	
-	logy i resent:		<u> </u>				
Remarks:							
VEGETATION	Use scientific names of plants.					1	
			Absolute	Dominant	Indicator		
Tree Stratum (Plot	t size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:	
1			·				
2						Number of Dominant Species	
3			·			That Are OBL, FACW, or FAC:	0 (A)
4							
5			·			Total Number of Dominant	
				= Total Cover		Species Across All Strata:	3 (B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)					Percent of Dominant Species	
1						That Are OBL, FACW, or FAC:	0% (A/B)
2							
3					·		
4				·		Prevalence index worksheet:	
5.				Tatal Causa		Total % Orwar af	Note define the state of
				= Total Cover		That Are OBL EACW or EAC:	Multiply by:
Herb Stratum (Plot	t size: 5' radius)					OBL species	
1 Cansella hursa		-	40%	Yes	FACU	FACW species	x2 -
2 Thlaspi arvens	e		40%	Yes	FACU	FAC species	x3 =
3. Stellaria media			30%	Yes	FACU	FACU species 125%	x4 = 5.00
4. Erigeron annul	18		5%	No	FACU	UPL species	x5 =
5. Sonchus asper	r r		5%	No	FACU	Column Totals: 125%	(A) 5.00 (B)
6. Allium vineale			5%	No	FACU		()
7.				·		Prevalence Index = B/A	4.00
8.			·	·			
9.			·	·			
10.			·	·		Hydrophytic Vegetation Indicate	ors:
11.				·			
12.						1-Rapid Test for Hydroph	ytic Vegetation
13.				·		2-Dominance Test is >50	%
14.						3-Prevalence Index is ≤3.	0 ¹
15.				·		4-Morphological Adaptation	ons ¹ (Provide supporting
16.				·		data in Remarks or on a	separate sheet)
17.				·		Problematic Hydrophytic	Vegetation ¹ (Explain)
18.							
19.				·		¹ Indicators of hydric soil and wetla	nd hydrology must
20.				·		be present, unless disturbed or pre-	oblematic.
			125%	= Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic	
1						Vegetation	
2						Present? Yes	No X
				= Total Cover			
Remarks: (Include	photo numbers here or on a separate sheet.)						

inches) 0-16"	Matuix		Deday			· · · · · · · · ,	
0-16"	Color (moist)	<u>%</u>	Ior (moist)			2 Toxturo	Pomarka
0-16				70 Ty			Remarks
	10YR 4/3	100				Silt Loam	
					i .		
<u> </u>					i		
Type: C=Cor	centration. D=Depletion	on. RM=Reduced Ma	trix. CS=Covered or C	Coated Sand Gr	ains. ² Loc	ation: PL=Pore Lining, N	/-Matrix.
vdric Soil Inc	dicators ³ :				Te	est Indicators of Hydric	Soils:
Histosol (A1)		Sandy Gleved Ma	atrix (S4)		Iron-Manga	nese Masses (F12)
Histic Epi	pedon (A2)	—	Sandy Redox (S5	5)		Verv Shallo	w Dark Surface (F22)
Black His	tic (A3)	—	Stripped Matrix (S	, S6)		Other (Expl	ain in Remarks)
Hvdrogen	Sulfide (A4)	-	Dark Surface (S7)			,
Stratified	Lavers (A5)	—	Loamv Muckv Mir	, neral (F1)			
2 cm Muc		—	Loamy Gleved Ma	atrix (F2)			
Depleted	Below Dark Surface ()	A11)	Depleted Matrix (F3)			
Thick Dar	rk Surface (A12)	,	Redox Dark Surfa	, ace (F6)		³ The hydric soil in	dicators have been updated to
Sandy Mu	uckv Mineral (S1)	—	Depleted Dark Su	urface (F7)		comply with the	e Field Indicators of Hvdric Soils
5 cm Muc	ky Peat or Peat (S3)	—	Redox Depressio	ns (F8)		in the United S	States, Version 8.0, 2016.
	vor (if choonyod);			. ,			
	yer (il observed):						
Depth (inc	thos):				Hydr	ric Sail Present?	Vos No X
YDROLO	GY						
Primary Indicat	tors (minimum of one i	is required: check all	that apply)			Secondary Indicat	
Surface V	Vater (A1)	is required. check an	Water-Stained Le	aves (B9)			tors (minimum of two required)
	r Table (A2)	_		aves (B5)		Surface Soi	tors (minimum of two required)
Ligh Wat			Aquatia Equipa (P	12)		Surface Soi	tors (minimum of two required) I Cracks (B6)
High Wat		—	Aquatic Fauna (B	13) http://B14)		Surface Soi	tors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2)
High Wat	n (A3) arko (B1)	_	Aquatic Fauna (B True Aquatic Plar	13) nts (B14) Oder (C1)		Surface Soi Drainage Pa Dry-Season	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2)
High Wat Saturatior Water Ma	arks (B1)	-	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide	13) hts (B14) Odor (C1)	n Rooto (C2)	Surface Soi Drainage Pa Dry-Season Crayfish Bu	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8)
High Wat Saturatior Water Ma Sediment	arks (B1) Deposits (B2)		Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp	13) hts (B14) Odor (C1) heres on Living	g Roots (C3)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9)
High Wat Saturation Water Ma Sediment Drift Depo	arks (B1) Deposits (B2) posits (B3) posits (D4)		Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	13) nts (B14) Odor (C1) heres on Living uced Iron (C4)	Roots (C3)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
High Wat Saturatior Water Ma Sediment Drift Depo Algal Mat	arks (B1) Deposits (B2) Deposits (B3) or Crust (B4)		Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	13) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S	g Roots (C3) Goils (C6)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic	tors (minimum of two required) I Cracks (B6) atterns (B10) b Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
High Wat Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo	arks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5)	- - - - -	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac	13) Odor (C1) heres on Living uced Iron (C4) inction in Tilled S ice (C7)	g Roots (C3) Goils (C6)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	tors (minimum of two required) Il Cracks (B6) atterns (B10) In Water Table (C2) Irrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2) al Test (D5)
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	arks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima		Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S ice (C7) ata (D9) Benedic)	g Roots (C3) Soils (C6)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	tors (minimum of two required) Il Cracks (B6) atterns (B10) In Water Table (C2) Irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) al Test (D5)
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Y	r (A3) r Deposits (B2) or Crust (B4) osits (B5) n Visible on Aerial Ima Vegetated Concave Si	agery (B7)	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in	13) odor (C1) heres on Living uced Iron (C4) iction in Tilled S ee (C7) ata (D9) Remarks)	g Roots (C3) Soils (C6)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation N Stunted or S Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely	rrks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave Si	agery (B7)	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S ce (C7) ata (D9) Remarks)	g Roots (C3) Soils (C6)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	tors (minimum of two required) Il Cracks (B6) atterns (B10) o Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely ' ield Observat Surface Water	rrks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave So tions: Present?	agery (B7) urface (B8) Yes No _X	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S ee (C7) ata (D9) Remarks) N/A	g Roots (C3) Goils (C6)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	tors (minimum of two required) Il Cracks (B6) atterns (B10) In Water Table (C2) Irrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) al Test (D5)
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V ield Observat Surface Water Vater Table Pt	arks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) In Visible on Aerial Ima Vegetated Concave So tions: Present?	agery (B7) urface (B8) Yes No X Yes No X	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in Depth (inches):	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S te (C7) ata (D9) Remarks) <u>N/A</u> <u>N/A</u>	g Roots (C3) Soils (C6)	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or \$ Geomorphic FAC-Neutra	tors (minimum of two required) Il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V ield Observat Surface Water Vater Table Pr Saturation Pres	arks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave S tions: Present? resent?	agery (B7) urface (B8) Yes No X Yes No X Yes No X	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in Depth (inches): Depth (inches):	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S ee (C7) ata (D9) Remarks) N/A N/A N/A	g Roots (C3) Soils (C6)	ology Present?	tors (minimum of two required) Il Cracks (B6) atterns (B10) n Water Table (C2) rrrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes NoX
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V ield Observat Surface Water Vater Table Pr Saturation Press includes capill	arks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave Si tions: Present? resent? sent? ary fringe)	agery (B7) urface (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u>	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in Depth (inches): Depth (inches):	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) uction in Tilled S ee (C7) ata (D9) Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> W	g Roots (C3) Soils (C6) /etland Hydr	Surface Soi Drainage P Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	tors (minimum of two required) Il Cracks (B6) atterns (B10) n Water Table (C2) rrrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes NoX
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely ¹ ield Observat Surface Water Vater Table Pr Saturation Pres includes capill Describe Reco	arks (B1) Deposits (B2) or Crust (B4) osits (B5) n Visible on Aerial Ima Vegetated Concave S tions: Present? resent? resent? ary fringe) orded Data (stream gau	agery (B7) urface (B8) Yes No X Yes No X Yes No X	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in Depth (inches): Depth (inches):	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) uction in Tilled S ce (C7) ata (D9) Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> <u>N/A</u> w s inspections),	g Roots (C3) Soils (C6) /etland Hydr if available:	ology Present?	tors (minimum of two required) Il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes NoX
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely ield Observat Surface Water Vater Table Pro Saturation Press includes capill Describe Reco	rks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave So tions: Present? resent? resent? sent? ary fringe) prded Data (stream gat	agery (B7) urface (B8) Yes No X Yes No X Yes No X Yes No X	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in Depth (inches): Depth (inches): Depth (inches):	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S ce (C7) ata (D9) Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> <u>N/A</u> <u>N/A</u> s inspections),	9 Roots (C3) Soils (C6) /etland Hydr if available:	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	tors (minimum of two required) Il Cracks (B6) atterns (B10) In Water Table (C2) Irrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) al Test (D5) Yes NoX
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely 'ield Observat Surface Water Vater Table Pr Saturation Pres includes capill Describe Reco	arks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave S tions: Present? resent? resent? sent? ary fringe) orded Data (stream gat	agery (B7) urface (B8) Yes No X Yes No X Yes No X Yes No X	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in Depth (inches): Depth (inches): Depth (inches):	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S ee (C7) ata (D9) Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> w s inspections),	g Roots (C3) Soils (C6) /etland Hydr if available:	Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	tors (minimum of two required) Il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes <u>No X</u>
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely ' Teld Observat Surface Water Vater Table Pres includes capill Describe Reco	arks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave S tions: Present? resent? sent? ary fringe) orded Data (stream gat	agery (B7) urface (B8) Yes No X Yes No X Yes No X uge, monitoring well,	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in Depth (inches): Depth (inches): Depth (inches):	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) iction in Tilled S ice (C7) ata (D9) Remarks) <u>N/A</u> <u>N/A</u> w s inspections),	g Roots (C3) Soils (C6)	ology Present?	tors (minimum of two required) Il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes NoX
High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely ' ield Observat Surface Water Vater Table Pres includes capill Describe Reco	arks (B1) Deposits (B2) Dosits (B3) or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave Si tions: Present? resent? sent? ary fringe) orded Data (stream gat	agery (B7) urface (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u> uge, monitoring well,	Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in Depth (inches): Depth (inches): Depth (inches):	13) hts (B14) Odor (C1) heres on Living uced Iron (C4) uction in Tilled S ee (C7) ata (D9) Remarks) N/A N/A N/A w s inspections),	g Roots (C3) Soils (C6) /etland Hydr if available:	ology Present?	tors (minimum of two required) Il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes NoX

Proiect/Site:	Northeast Corner of County Line & Arlington		City/County:	Indianapolis/Ma	arion Sampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn		State	IN	Sampling Point: dp03
Investigator(s):	Ben Hess & Paige Eichelberger			Section. Townshi	ip. Range: S23 T14N R4E
Landform (hillslope	terrace. etc.):			Loca	I relief (concave, convex, none): none
Slope (%):	2% Lat: 39.63889944		Lona:	-86	3.06292519 Datum: NAD83 UTM16N
Soil Map Unit Nam	e: Treaty silty clay loam, 0 to 1 percent slopes (ThrA)				NWI classification: none
Are climatic / hvdro	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 sig	nificantly dist	urbed?	Are "Norm	al Circumstances" present? Yes X No
Are Vegetation	N Soil N or Hydrology N nat	turally probler	matic?	(If needed	explain any answers in Remarks)
	EINDINGS Attach site man showing sampling point locations tran	socts imr	ortant featur		
	actation Dropont?	sects, imp		Sompled Ar	
Hydric Soil Pres	getation Present? Yes No	v	is the	Sampled An	aa Ves No v
Wetland Hydrol	logy Present? Yes X No	^	within		
Remarks:	<u> </u>				
VEGETATION	Use scientific names of plants.				<u> </u>
	·	Absolute	Dominant	Indicator	
Tree Stratum (Plot	t size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
1					
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: 2 (B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)				Percent of Dominant Species
1					That Are OBL, FACW, or FAC: 100% (A/B)
2					
3					
4					Prevalence Index worksheet:
5.					T
r			= Total Cover		Total % Cover of: Multiply by:
Lingh Chartery (Dist					CPL session with
Herb Stratum (Pio		60%	Vee	EAC)A/	OBL species X1 = EACIN/ appaging 75% x2 1.50
1. Packera glaber		25%	Voc	FACIO	FAC w species 75% $x2 = 1.50$
2. Rumex crispus		10%	No	FAC	FACIlispecies 23% $x_3 = 0.73$
		5%	No	FACW	
5		570		TAOM	Column Totals: 100% (A) 2.25 (B)
6	· · · · · · · · · · · · · · · · · · ·				
7					Prevalence Index = $B/A = 2.25$
8.					
9.					
10.					Hydrophytic Vegetation Indicators:
11.					
12.					1-Rapid Test for Hydrophytic Vegetation
13.					X 2-Dominance Test is >50%
14.					3-Prevalence Index is ≤3.0 ¹
15.					4-Morphological Adaptations ¹ (Provide supporting
16.					data in Remarks or on a separate sheet)
17.					Problematic Hydrophytic Vegetation ¹ (Explain)
18.					
19.					¹ Indicators of hydric soil and wetland hydrology must
20.					be present, unless disturbed or problematic.
		100%	= Total Cover		
Woody Vine Stratu	m (Plot size: 30' radius)				Hydrophytic
1.					Vegetation
2.					Present? Yes X No
			= Total Cover		
	-				
Remarks: (Include	photo numbers here or on a separate sheet.)				-

Profile Desc	ription: (Describe to	the depth needed t	o document the in	dicator or co	onfirm the a	bsence of	indicators.)	
Depth	Matrix		Rec	dox Features				
(inches)	Color (moist)	% C	color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16"	10YR 4/1	100					Silt Loam	Mixed
0-16"	10YR 4/2	100					Silt Loam	
¹ Type: C=C	oncentration, D=Deple	etion, RM=Reduced M	latrix, CS=Covered	or Coated Sa	and Grains.	² Location	n: PL=Pore Lining, N	Л=Matrix.
Hydric Soil I	ndicators ³ :					Test li	ndicators of Hydric	Soils:
Histoso	l (A1)		Sandy Gleye	d Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic E	pipedon (A2)		Sandy Redo	(S5)			Very Shallo	w Dark Surface (F22)
Black H	listic (A3)		Stripped Mat	rix (S6)			Other (Expl	ain in Remarks)
Hydroge	en Sulfide (A4)		Dark Surface	e (S7)				
Stratifie	d Layers (A5)		Loamy Muck	y Mineral (F1))			
2 cm M	uck (A10)		Loamy Gleye	ed Matrix (F2)				
Deplete	d Below Dark Surface	e (A11)	Depleted Ma	trix (F3)				
Thick D	ark Surface (A12)		Redox Dark	Surface (F6)			³ The hydric soil in	dicators have been updated to
Sandy M	Mucky Mineral (S1)		Depleted Da	rk Surface (F7	7)		comply with the	e Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)	Redox Depre	essions (F8)			in the United S	States, Version 8.0, 2016.
Restrictive I	aver (if observed):							
Type:	ayer (ir observed).							
Depth (ii	nches):					Hvdric S	Soil Present?	Yes No X
-1 - (,		
HYDROL	OGY							
Wetland Hvd	Irology Indicators:							
Primary Indic	ators (minimum of on	e is required: check a	ll that apply)				Secondary Indicat	tors (minimum of two required)
Surface	Water (A1)		Water-Staine	ed Leaves (B9	3)		Surface Soi	I Cracks (B6)
High W	ater Table (A2)		Aquatic Faur	na (B13)	,		Drainage P	atterns (B10)
X Saturati	ion (A3)		True Aquatic	Plants (B14)			Dry-Season	Water Table (C2)
Water M	Marks (B1)	•	Hydrogen Su	Ifide Odor (C'	1)		Cravfish Bu	rrows (C8)
Sedime	nt Deposits (B2)		Oxidized Rhi	zospheres on	Living Root	s (C3)	Saturation \	/isible on Aerial Imagery (C9)
Drift De	(B2)		Presence of	Reduced Iron	(C4)	0 (00)	Stunted or S	Stressed Plants (D1)
	at or Crust (B4)	•	Becent Iron [Poduction in T	(U) Filled Soils ((2 6)	X Geomorphi	Position (D2)
	nosite (B5)		Thin Muck Si			50)		$D_{\rm L} = 0.0000000000000000000000000000000000$
	posits (BS)							i Test (DS)
		Surface (DP)	Gauge of we	in in Domorko				
Sparser	y vegetated Concave	Surface (Bo)		in in Remarks	5)			
Field Observ	vations:							
Surface Wate	er Present?	Yes No X	Depth (inches)): N/A				
Water Table	Present?	Yes No X	Depth (inches)): N/A				
Saturation Pr	esent?	Yes X No	Depth (inches)	: Surface	Wetland	d Hydrolog	gy Present?	Yes X No
(includes cap	billary fringe)							
Describe Re	corded Data (stream (gauge, monitoring wel	I, aerial photos, pre	vious inspecti	ions), if avai	lable:		
Remarks [.]								
1								

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: dp04
Investigator(s):	Ben Hess & Paige Eichelberger				Section, Townsh	ip, Range: S23 T14N R4E
Landform (hillslope	, terrace, etc.):				Loca	al relief (concave, convex, none): none
Slope (%):	0% Lat:	39.63739554		Long:	-8	6.06236431 Datum: NAD83 UTM16N
Soil Map Unit Nam	e: Treaty silty clay loam, 0 to 1 percent slopes (The	A)				NWI classification: none
Are climatic / hydro	ologic conditions on the site typical for this time of y	ear?		Yes	X No	(If no, explain in Remarks.)
Are Vegetation	N , Soil N	, or Hydrology N	significantly dist	turbed?	Are "Norm	al Circumstances" present? Yes X No
Are Vegetation	N , Soil N	, or Hydrology N	naturally proble	matic?	(If needed	, explain any answers in Remarks.)
SUMMARY OF	FINDINGS Attach site map showing	sampling point locations,	transects, imp	portant featur	es, etc.	
Hydrophytic Ve	getation Present?	Yes x	No	Is the	Sampled Ar	ea
Hydric Soil Pres	sent?	Yes x	No	within	n a Wetland?	Yes <u>x</u> No
Wetland Hydrol	logy Present?	Yes <u>x</u>	No			
Remarks:						
VEGETATION	Use scientific names of plants.					
Trop Strature (D)			Absolute	Dominant	Indicator	Demission Test werkelset
Plot	i size: 30' radius)		% Cover	Species?	Status	Dominance Test 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 Stra	tum (Plot size: 15' radius)					Percent of Dominant Species
1.						That Are OBL, FACW, or FAC: 100% (A/B)
2.						
3.				·		
4						Prevalence Index worksheet:
5.						
				= Total Cover		Total % Cover of: Multiply by:
						That Are OBL, FACW, or FAC: A/B
Herb Stratum (Plot	t size: 5' radius)	-	50/		EA CIA/	OBL species X1 = FACIAL species 20%
1. Myosurus minii	mus		5%	Yes Voc		FAC w species 20% $x2 = 0.40$
3. Veronica perec	rrina		10%	Yes	FACW	
4.	gma			100	171011	UPL species x5 =
5.						Column Totals: 20% (A) 0.40 (B)
6.				·		
7.					·	Prevalence Index = B/A = 2.00
8.						
9.						
10						Hydrophytic Vegetation Indicators:
11						
12						X 1-Rapid Test for Hydrophytic Vegetation
13.						2-Dominance Test is >50%
14.						X 3-Prevalence index is ≤3.0°
15.						4-iviorphological Adaptations (Provide supporting
10						aata in Kernarks or on a separate sneet) Problematic Hydrophytic Vegetation ¹ (Evoluin)
18				·		
19.						¹ Indicators of hydric soil and wetland hydrology must
20.						be present, unless disturbed or problematic
			20%	= Total Cover		
L			2070			
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic
1.	· · · · ·					Vegetation
2.						Present? Yes X No
				= Total Cover		
Remarks: (Include	photo numbers here or on a separate sheet.)					

Depth					minn the a	bsence of	indicators.)	
	Matrix		Red	ox Features	_ 4			
(Inches)	Color (moist)	<u>%</u> C	olor (moist)	%	Туре'	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	
						_		
¹ Type: C=C	oncentration, D=Depletio	n, RM=Reduced M	atrix, CS=Covered	or Coated Sa	and Grains.	² Locatio	n: PL=Pore Lining, N	=Matrix.
Hydric Soil I	ndicators ³ :	,	,			Test I	ndicators of Hydric	Soils:
Histoso	l (A1)		Sandy Gleyed	Matrix (S4)			Iron-Mangar	nese Masses (F12)
Histic E	pipedon (A2)	-	Sandy Redox	(S5)			Very Shallow	v Dark Surface (F22)
Black H	listic (A3)	-	Stripped Matr	ix (S6)			Other (Expla	iin in Remarks)
Hydroge	en Sulfide (A4)		Dark Surface	(S7)				
Stratifie	d Layers (A5)		Loamy Mucky	Mineral (F1)			
2 cm M	uck (A10)	-	Loamy Gleyed	d Matrix (F2)				
Deplete	ed Below Dark Surface (A	.11)	X Depleted Mat	rix (F3)				
Thick D	ark Surface (A12)		Redox Dark S	Surface (F6)			³ The hydric soil inc	licators have been updated to
Sandy M	Mucky Mineral (S1)	_	Depleted Dar	k Surface (F	7)		comply with the	Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)	_	Redox Depres	ssions (F8)			in the United S	tates, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Type:								
Depth (ir	nches):					Hydric S	Soil Present?	Yes X No
HYDROL	DGY							
Wetland Hyd								
D	Irology Indicators:							/ · · · / · · · · · ·
Primary Indic	Irology Indicators: cators (minimum of one is	required: check al	I that apply)	d Loovee (P(Secondary Indicate	ors (minimum of two required)
Primary Indic	Trology Indicators: cators (minimum of one is Water (A1)	required: check al	I that apply) Water-Stained	d Leaves (BS))		Secondary Indicate	ors (minimum of two required) Cracks (B6)
Primary Indic Surface High W	Irology Indicators: cators (minimum of one is a Water (A1) ater Table (A2)	required: check al -	I that apply) Water-Staine Aquatic Fauna	d Leaves (BS a (B13)))		Secondary Indicate	ors (minimum of two required) Cracks (B6) Itterns (B10)
Primary Indic Surface High W Saturati	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3)	required: check al	I that apply) Water-Stained Aquatic Fauna True Aquatic	d Leaves (B9 a (B13) Plants (B14)))		Secondary Indicate X Surface Soil Drainage Pa Dry-Season	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2)
Primary Indic Surface High W Saturati Water N	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) wt Danasita (B2)	required: check al - - -	l that apply) Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul	d Leaves (BS a (B13) Plants (B14) fide Odor (C)) 1)	o (C2)	Secondary Indicat X Surface Soil Drainage Pa Dry-Season Crayfish Bur	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8)
Primary Indic Surface High W Saturati Water M Sedime	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) wht Deposits (B2) provite (B2)	required: check al - - - -	l that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz	d Leaves (Bs a (B13) Plants (B14) fide Odor (C cospheres on)) 1) Living Root	s (C3)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9)
Primary Indic Surface High W Saturati Water M Sedime Drift De	Irology Indicators: cators (minimum of one is e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) ot as Crunt (B4)	required: check al - - - - - - -	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron) 1) Living Root (C4)	s (C3)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1)
Primary India Surface High W Saturati Water M Sedime Drift De Algal M	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) mt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	required: check al - - - - - - - - - -	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in) 1) Living Root (C4) Tilled Soils ((s (C3) C6)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Itressed Plants (D1) Position (D2)
Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Asciel Imperiation	required: check al	I that apply) Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in Eduction in Inface (C7)) Living Root (C4) Filled Soils ((s (C3) C6)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundat	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) m Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Imag	s required: check al - - - - - - - - - - - - - - - - - - -	I that apply) Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in reface (C7) II Data (D9) a in Pomarka	1) Living Root (C4) Filled Soils ((s (C3) C6)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) ttterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturati Water M Sedime Drift De Algal M Iron De Inundat Sparsel	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) wh Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Su	e required: check al - - - - - - - - - - - - - - - - - - -	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduced Iron Reduction in ⁻ Irface (C7) Il Data (D9) n in Remarks)) Living Root (C4) Filled Soils ((s (C3) C6)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundat Sparsel	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Su vations:	gery (B7)	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in ⁻ irface (C7) II Data (D9) n in Remarks)) Living Root (C4) Filled Soils ((s (C3) C6)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Itressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundat Sparsel	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Imaged Vegetated Concave Succession Vations: er Present?	s required: check al 	I that apply) Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in Reduction in rface (C7) II Data (D9) n in Remarks)) Living Root (C4) Filled Soils ((s (C3) C6)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Itressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate Water Table	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) m Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Imag y Vegetated Concave Su vations: er Present? Present? Y	s required: check al 	I that apply) Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches)) Depth (inches)	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in rface (C7) II Data (D9) n in Remarks N/A	1) Living Root (C4) Filled Soils ((s (C3) C6)	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) ttterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate Vater Table	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) m Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aerial Imag y Vegetated Concave Su vations: er Present? Present? Y resent? Y	gery (B7) res No X res No X res No X	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches): Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in [–] trface (C7) II Data (D9) n in Remarks <u>N/A</u> <u>N/A</u>	1) Living Root (C4) Filled Soils ((s (C3) C6) d Hydrolog	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) ttterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturati Water M Sedime Drift De Algal M Iron De, Inundat Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) m Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Su vations: er Present? Present? Y	a required: check al a a a a a a a a a a a a a a a a b a b a b a b a b	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches): Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduced Iron Reduction in [–] trface (C7) II Data (D9) n in Remarks <u>N/A</u> <u>N/A</u>)) Living Root (C4) Filled Soils ((5) Wetland	s (C3) C6) d Hydrolog	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5) Yes X No
Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Su Vations: er Present? Present? Present? Suppose the set of	e required: check al gery (B7) rface (B8) res No X res No X res No X res No X res No X res No X	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches): Depth (inches): Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in ⁻ irface (C7) II Data (D9) n in Remarks <u>N/A</u> <u>N/A</u> <u>N/A</u>)) Living Root (C4) Filled Soils ((5) Wetland	s (C3) C6) d Hydrolog	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Itressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Imag y Vegetated Concave Su vations: er Present? Present? Present? Y poillary fringe) corded Data (stream gau	s required: check al	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches): Depth (inches): Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in [–] and the cospheres on Reduction in [–] II Data (D9) II Data (D9) II Data (D9) II Data (D9) II Data (D9) II N/A II N/A	1) Living Root (C4) Filled Soils ((5) Wetland	s (C3) C6) d Hydrolog	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) ttterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturat. Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) m Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Su vations: er Present? Present? Yresent? Yresent? Yresent gau	e required: check al	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches): Depth (inches): Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduced Iron Reduction in [–] riface (C7) II Data (D9) n in Remarks N/A N/A	1) Living Root (C4) Filled Soils ((;) Wetland	s (C3) C6) d Hydrolog	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5) Yes X No
Primary Indic Surface High W Saturat. Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) wh Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Su vations: er Present? Present? Yeresent?	e required: check al	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches): Depth (inches): Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in ⁻ riface (C7) II Data (D9) n in Remarks N/A N/A N/A)) Living Root (C4) Filled Soils ((5) Wetland ions), if avail	s (C3) C6) d Hydrolog	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Itressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturat Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Su vations: er Present? Present? Present? Suppose the set of	e required: check al	I that apply) Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches): Depth (inches): Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in [–] arface (C7) II Data (D9) n in Remarks N/A N/A N/A)) Living Root (C4) Filled Soils ((5) Wetland	s (C3) C6) d Hydrolog	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Itressed Plants (D1) Position (D2) I Test (D5)
Primary Indic Surface High W Saturat Water N Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red	Irology Indicators: cators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) ont Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Imag y Vegetated Concave Su rations: er Present? Present? Present? Source of the second sec	required: check al	I that apply) Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches): Depth (inches): Depth (inches):	d Leaves (BS a (B13) Plants (B14) fide Odor (C cospheres on Reduced Iron Reduction in ⁻ erface (C7) Il Data (D9) n in Remarks N/A N/A N/A)) Living Root (C4) Filled Soils ((;) Wetland	s (C3) C6) d Hydrolog	Secondary Indicate X Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) Cracks (B6) ttterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) I Test (D5)

Project/Site:	Northeast Corner of County Line & Arlington			City/County:	Indianapolis/Ma	arion	Sampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn			State:	IN	Sampling Point:	dp05
Investigator(s):	Ben Hess & Paige Eichelberger			5	Section, Townsh	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):				Loca	I relief (concave, convex, none):	none
Slope (%):	1% Lat:	39.63737676		Long:	-86	6.05999453	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loam, 0 to 1 percent slopes (ThrA)					NWI class	ification: none
Are climatic / hydro	logic conditions on the site typical for this time of yea	r?		Yes	X No	(If no, explain in Remarks.)
Are Vegetation	N , Soil N	, or Hydrology N	significantly dist	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	<u>N</u> , Soil <u>N</u>	, or Hydrology N	naturally problem	natic?	(If needed	, explain any answers in Remarks	s.)
SUMMARY OF	FINDINGS Attach site map showing s	ampling point locations, t	ransects, imp	ortant featur	es, etc.		
Hydrophytic Ve	getation Present?	Yes <u>x</u> N	o	Is the	Sampled Ar	ea	
Hydric Soil Pres	sent?	Yes <u>x</u> N	0	within	a Wetland?	Yes	<u>K</u> No
welland Hydrol	ogy Present?		0				
Remarks:							
VEGETATION	Use scientific names of plants.					1	
Tana Circle (T			Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:	
1						Number of Dominant Species	
3						That Are OBL_EACW_or EAC	2 (A)
4.							
5.						Total Number of Dominant	
				= Total Cover		Species Across All Strata:	2 (B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant Species	
1						That Are OBL, FACW, or FAC	100% (A/B)
2							
3.							
4						Prevalence Index worksheet:	
5.				Tatal Causa		Total % Course of	N de altéra de a de se
				= Total Cover		That Are OBL_FACW_or FAC:	A/B
Herb Stratum (Plot	t size: 5' radius)					OBL species 6%	x1 = 0.06
1. Myosurus minii	mus		1%	No	FACW	FACW species 16%	x2 = 0.32
2. Alopecurus car	rolinianus		5%	Yes	FACW	FAC species	x3 =
3. Veronica pereg	rina		10%	Yes	FACW	FACU species	x4 =
4. Ranunculus sc	eleratus		2%	No	OBL	UPL species	x5 =
5. Eleocharis obtu	ISA		4%	No	OBL	Column Totals: 22%	(A) 0.38 (B)
6							
7						Prevalence Index =	B/A = <u>1.73</u>
8				·			
9					<u> </u>	Hydrophytic Vogotation Indi	ators
11						injurophytic vegetation indi	
12.						X 1-Rapid Test for Hvdr	ophytic Vegetation
13.						X 2-Dominance Test is :	>50%
14.						X 3-Prevalence Index is	≤3.0 ¹
15.						4-Morphological Adap	tations ¹ (Provide supporting
16.						data in Remarks or o	n a separate sheet)
17.						Problematic Hydroph	ytic Vegetation ¹ (Explain)
18.							
19						Indicators of hydric soil and w	etland hydrology must
20						be present, unless disturbed o	r problematic.
			22%	= Total Cover			
Woods View Of						Hudronbu ⁴¹	
1 vvoody vine Stratur	m (Plot size: 30 radius)					Negotation	
2						Present? Voc	X No
<u>.</u>				= Total Cover		185	
Remarks: (Include	photo numbers here or on a separate sheet.)					4	
	. ,						

Depth	Matrix		Re	dox Features				
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16"	10YR 5/1		10YR 7/6	3	<u> </u>	М	Clay Loam	
n	(<u> </u>							
Type: C=C	Concentration, D=Deple	tion, RM=Reduc	ed Matrix, CS=Covered	d or Coated S	and Grains.	² Locatio	n: PL=Pore Linin	g, M=Matrix.
ydric Soil	Indicators ³ :					Test	Indicators of Hyd	Iric Soils:
Histoso	ol (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Mar	nganese Masses (F12)
Histic E	Epipedon (A2)		Sandy Redo	x (S5)			Very Sha	allow Dark Surface (F22)
Black H	Histic (A3)		Stripped Ma	trix (S6)			Other (E	xplain in Remarks)
Hydrog	gen Sulfide (A4)		Dark Surfac	e (S7)				
Stratifie	ed Layers (A5)		Loamy Much	ky Mineral (F1	l)			
2 cm N	luck (A10)		Loamy Gley	ed Matrix (F2))			
Deplet	ed Below Dark Surface	(A11)	X Depleted Ma	atrix (F3)			2	
Thick [Dark Surface (A12)		Redox Dark	Surface (F6)			°The hydric so	I indicators have been updated to
Sandy	Mucky Mineral (S1)		Depleted Da	rk Surface (F	7)		comply with	the Field Indicators of Hydric Soils
5 cm N	lucky Peat or Peat (S3)	Redox Depr	essions (F8)			in the Unite	d States, Version 8.0, 2016.
estrictive l	Layer (if observed):							
Type:								
Depth (inches):					Hydric	Soil Present?	Yes X No
	OGY							
emarks: IYDROL Vetland Hyd	OGY drology Indicators:							
emarks: IYDROL Vetland Hy Primary Indi	OGY drology Indicators: cators (minimum of one	e is required: che	eck all that apply)				Secondary Ind	icators (minimum of two required)
emarks: IYDROL Vetland Hyr Primary Indi X Surface	OGY drology Indicators: cators (minimum of one e Water (A1)	e is required: che	eck all that apply) Water-Stain	ed Leaves (B	9)		Secondary Ind Surface	icators (minimum of two required) Soil Cracks (B6)
emarks: IYDROL Vetland Hy Primary Indi X Surface High W	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2)	e is required: che	eck all that apply) Water-Stain Aquatic Fau	ed Leaves (B na (B13)	9)		Secondary Ind	icators (minimum of two required) Soil Cracks (B6) 9 Patterns (B10)
emarks: Vetland Hyu Primary Indi X Surface High W X Satura	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3)	e is required: che	eck all that apply) Water-Stain Aquatic Fau True Aquatic	ed Leaves (B na (B13) c Plants (B14)	9)		Secondary Ind Surface Drainage Dry-Sea	icators (minimum of two required) Soil Cracks (B6) 9 Patterns (B10) son Water Table (C2)
emarks: IYDROL Vetland Hyd Primary Indi X Surface High W X Satura Water	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1)	e is required: che	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C	9)) 21)		Secondary Ind Surface Drainage Dry-Sea Crayfish	icators (minimum of two required) Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
emarks: YDROL Vetland Hyd Primary Indi X Surfact High W X Satura Water Sedimo	OGY drology Indicators: cators (minimum of ond e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	e is required: che	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or	9)) 21) n Living Roots	; (C3)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio	icators (minimum of two required) Soil Cracks (B6) ∋ Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
IYDROL Vetland Hyd Primary Indi X Surfac High W X Satura Water Sedime Drift Do	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	e is required: che	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror	9)) C1) n Living Roots n (C4)	5 (C3)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted	icators (minimum of two required) Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
emarks: IYDROL Vetland Hyd Primary Indi X Surface High W X Satura Water Sedime Drift Do X Algal M	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4)	e is required: che	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in	9)) 21) n Living Roots n (C4) Tilled Soils (C	5 (C3) (6)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor	icators (minimum of two required) Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)
emarks: IYDROL Vetland Hyr Primary Indi X Surface High W X Satura Water Sedime Drift De X Algal M Iron De	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)	e is required: che	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7)	9)) C1) n Living Roots n (C4) Tilled Soils (C	; (C3) ;6)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
emarks: IYDROL Vetland Hyr Primary Indi X Surface High W X Satura Water Sedime Drift De X Algal M Iron De Inunda	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aerial Ir	e is required: che	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9)	9)) c1) n Living Roots n (C4) Tilled Soils (C	; (C3) ; (C3)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
emarks: IYDROL Vetland Hy Primary Indi X Surface High W X Satura Water Sedime Drift De Algal M Iron De Inunda Sparse	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial In-	e is required: che nagery (B7) Surface (B8)	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark	9) 21) n Living Roots n (C4) Tilled Soils (C s)	5 (C3) 56)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
IYDROL Vetland Hyd Primary Indi X Surfac High W X Satura Water Sedime Drift Do X Algal M Iron De Inunda Sparse	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aerial In- ely Vegetated Concave	e is required: che nagery (B7) Surface (B8)	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark	9) 21) n Living Roots n (C4) Tilled Soils (C s)	; (C3) ;6)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
emarks: IYDROL Vetland Hyn Primary Indi X Surface High W X Satura Water Sedime Drift Do X Algal M Iron De Inunda Sparse Sield Obser Surface Wai	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial In ely Vegetated Concave vations: ter Present?	e is required: che nagery (B7) Surface (B8)	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark	9) 21) n Living Roots n (C4) Tilled Soils (C s)	; (C3) (6)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
emarks: IYDROL Vetland Hyp Primary Indi X Surface High W X Satura Water Sedime Drift De X Algal M Iron De Inunda Sparse Sield Obser Surface Water Table	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial In- ely Vegetated Concave vations: ter Present?	e is required: che nagery (B7) Surface (B8) Yes X No Yes No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark	9)) c1) n Living Roots n (C4) Tilled Soils (C s)	; (C3) ;6)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
emarks: Vetland Hyperimary India X Surface High W X Saturaa Water Sedime Drift De X Algal M Iron De Inunda Sparsee Surface Water Surface Water	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Ir ely Vegetated Concave vations: ter Present? Present?	e is required: che nagery (B7) Surface (B8) Yes X No Yes X No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla Depth (inches Depth (inches	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark	9) C1) n Living Roots n (C4) Tilled Soils (C s) Wetland	5 (C3) 56)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)
emarks: IYDROL Vetland Hyp Primary Indi X Surface High W X Satura: Water Sedime Drift De X Algal M Iron De Inunda Sparse Sield Obser Surface Wai Water Table Saturation P	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Ir ely Vegetated Concave vations: ter Present? e Present? pillary fringe)	e is required: che nagery (B7) Surface (B8) Yes X No Yes X No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla Depth (inches Depth (inches	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark c): <u>1"</u> c): <u>N/A</u>	9) C1) n Living Roots n (C4) Tilled Soils (C s) Wetland	5 (C3) 56) Hydrolo	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) Yes X No
emarks: IYDROL Vetland Hy Primary Indi X Surface High W X Satura: Water Sedime Drift De X Algal M Iron De Inunda Sparsee Surface Wa' Nater Table Saturation P (includes ca Describe Re	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Ir ely Vegetated Concave vations: ter Present? Present? Present? pillary fringe) ecorded Data (stream of	e is required: che nagery (B7) Surface (B8) Yes X No Yes X No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inches Depth (inches Depth (inches	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark c): <u>1"</u> c): <u>N/A</u> c): <u>Surface</u>	9) 21) n Living Roots n (C4) Tilled Soils (C s) Wetland	5 (C3) 56)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) Yes <u>X</u> No
emarks: IYDROL Vetland Hy Primary Indi X Surface High W X Satura Water Sedime Drift De Algal M Iron De Inunda Sparse Surface Water Surface Water Surface Water Surface Water Saturation P (includes ca Describe Reference)	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aerial In- ely Vegetated Concave vations: ter Present? Present? pillary fringe) ecorded Data (stream g	e is required: che nagery (B7) Surface (B8) Yes X No Yes X No Yes X No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla Depth (inches Depth (inches Depth (inches Depth (inches	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark c): 1" c): N/A c): Surface	9) 21) n Living Roots n (C4) Tilled Soils (C s) Wetland tions), if availa	5 (C3) (C3) (C3) (C3) (C3) (C3) (C3) (C3)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatic X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) obic Position (D2) utral Test (D5) Yes X No
IVDROL Vetland Hyu Primary Indi X Surfac High W X Satura Water Sedime Drift De X Algal M Iron De Inunda Sparse Field Obser Surface Wa' Water Table Saturation P (includes ca Describe Re	OGY drology Indicators: cators (minimum of on- e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aerial In- ely Vegetated Concave vations: ter Present? e Present? Present? pillary fringe) acorded Data (stream g	e is required: che nagery (B7) Surface (B8) Yes X No Yes X No yauge, monitoring	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla Depth (inches Depth (inches Depth (inches Depth (inches	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark c): 1" .): N/A c): Surface evious inspec	9) 21) n Living Roots n (C4) Tilled Soils (C s) Wetland tions), if availa	s (C3) S6) Hydrolo able:	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) Yes X No
	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial In ely Vegetated Concave vations: ter Present? e Present? pillary fringe) acorded Data (stream g	e is required: che nagery (B7) Surface (B8) Yes X No Yes No Yes X No jauge, monitoring	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck St Gauge or W Other (Explation) Depth (inchests) Depth (inchests) Q well, aerial photos, process	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark c): <u>1"</u> c): <u>N/A</u> c): <u>Surface</u>	9) 1) n Living Roots n (C4) Tilled Soils (C s) Wetland tions), if availa	; (C3) ;;() ;;() ;() ;() ;() ;() ;() ;() ;()	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio Stunted X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) P Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) Yes X No
	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial In- ely Vegetated Concave vations: ter Present? Present? pillary fringe) ecorded Data (stream g	e is required: che nagery (B7) Surface (B8) Yes X No Yes No Yes X No gauge, monitoring	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla Depth (inches Depth (inches Depth (inches g well, aerial photos, pre	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark c): 1" c): N/A c): Surface	9)) 1) n Living Roots n (C4) Tilled Soils (C s) Wetland tions), if availa	5 (C3) (C3) (C3) (C3) (C3) (C3) (C3) (C3)	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) P Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) Yes X No
Imarks: If VDROL Vetland Hy Primary Indi X Surface High W X Satura Water Sedime Drift De X Algal N Iron De Inunda Sparsee Saturation P Surface Wa Nater Table Saturation P Surface Wa Nater Table Remarks:	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial In ely Vegetated Concave vations: ter Present? e Present? pillary fringe) ecorded Data (stream of	e is required: che nagery (B7) Surface (B8) Yes X No Yes No Yes X No gauge, monitoring	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla Depth (inches Depth (inches g well, aerial photos, press	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark c): 1" c): N/A c): Surface	9) C1) n Living Roots n (C4) Tilled Soils (C s) Wetland tions), if availa	5 (C3) 56) Hydrolo able:	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) Yes X No
emarks: IYDROL Vetland Hyr Primary Indi X Surface High W X Satura: Water Sedime Drift De X Algal M Iron De Inunda Sparse Vater Table Saturation P includes ca Describe Re Remarks:	OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Ir ely Vegetated Concave vations: ter Present? e Present? Present? pillary fringe) ecorded Data (stream of	e is required: che nagery (B7) Surface (B8) Yes X No Yes X No Yes X No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck Si Gauge or W Other (Explation) Depth (inchesting) X Depth (inchesting) g well, aerial photos, process	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remark c): <u>1"</u> c): <u>1"</u> c): <u>N/A</u> c): <u>Surface</u>	9) 21) n Living Roots n (C4) Tilled Soils (C s) Wetland tions), if availa	5 (C3) 56) Hydrolo able:	Secondary Ind Surface Drainage Dry-Sea Crayfish Saturatio X Geomor X FAC-Ne	icators (minimum of two required) Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5)

Project/Site:	Northeast Corner of County Line & Arlington			City/County:	: Indianapolis/M	arion S	ampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn			State:	: IN	Sampling Point:	dp06
Investigator(s):	Ben Hess & Paige Eichelberger			5	Section, Townsh	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):				Loca	al relief (concave, convex, none): no	ne
Slope (%):	1% Lat:	39.63763178		Long:	-8	6.06013674	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Crosby silt loam, fine-loamy subsoil, 0 to 2 perce	ent slopes (CrA)				NWI classifica	ation: none
Are climatic / hydro	logic conditions on the site typical for this time of y	ear?		Yes	X No	(If no, explain in Remarks.)	
Are Vegetation	N, Soil N	, or Hydrology N	significantly dist	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	N , Soil N	, or Hydrology N	naturally probler	natic?	(If needed	, explain any answers in Remarks.)	
SUMMARY OF	FINDINGS Attach site map showing	sampling point location	s, transects, imp	ortant featur	es, etc.		
Hydrophytic Ve	getation Present?	Yes x	No	Is the	Sampled Ar	ea	
Hydric Soil Pres	sent?	Yes <u>x</u>	No	within	n a Wetland?	Yes	No <u>x</u>
vvetland Hydrol	logy Present?	Yes	N0 X				
Remarks:							
VEGETATION	Use scientific names of plants.						
	· · · · · · ·		Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:	
1							
2						That Are OPL EACING or EACIN	2 (4)
3						That Are OBL, FACW, of FAC:	(A)
5						Total Number of Dominant	
J				= Total Cover		Species Across All Strata:	2 (B)
						opolioo / lorooo / lir ollalar	(3)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant Species	
1.						That Are OBL, FACW, or FAC:	100% (A/B)
2.							
3.							
4.						Prevalence Index worksheet:	
5.							
				= Total Cover		Total % Cover of:	Multiply by:
						That Are OBL, FACW, or FAC:	<u>A/B_</u>
Herb Stratum (Plot	t size: 5' radius)	-	109/	No	EAC)M/	OBL species	X1 =
Alopecurus car	rolinianus		10%	Ves	FACW	FACW Species 75%	x2 = 1.50
3 Veronica pereo	nina		25%	Yes	FACW	FACU species 6%	x4 = 0.24
4. Capsella bursa	-pastoris		5%	No	FACU	UPL species	x5 =
5. Erigeron canad	lensis		1%	No	FACU	Column Totals: 81%	(A) 1.74 (B)
6.							
7.				·		Prevalence Index = B/A	.= 2.15
8.							
9.							
10						Hydrophytic Vegetation Indicate	ors:
11							
12.						X 1-Rapid Test for Hydroph	ytic Vegetation
13.						X 2-Dominance Test is >50 2 Provolonce Index is <60	% 0 ¹
14							.v ons ¹ (Provide supporting
15.						data in Romarka or on a	soparate shoet)
17						Problematic Hydrophytic	Vegetation ¹ (Explain)
18							
19.						¹ Indicators of hydric soil and wetla	nd hydrology must
20.						be present, unless disturbed or pr	oblematic.
			81%	= Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic	
1						Vegetation	
2						Present? Yes	< No
				= Total Cover			
						ļ	
Remarks: (Include	pnoto numbers here or on a separate sheet.)						

inches) 0-16"	Matula		De-l-				indicator 3.)	
0-16"	IVIATRIX	%	Redo:	x reatures		1 cc^2	Texture	Remarks
0-16"		<u></u> <u></u>		70	туре	LUC		Remarks
	101R 5/1	100					Slit Loam	
		·					·	
		·						
		·						
Type: C=Cor	ncentration, D=Depletio	on, RM=Reduced Ma	atrix, CS=Covered o	r Coated Sa	nd Grains.	² Locatior	n: PL=Pore Lining, M	=Matrix.
ydric Soil Ind	dicators ³ :					Test li	ndicators of Hydric	Soils:
Histosol ((A1)	-	Sandy Gleyed	Matrix (S4)			Iron-Mangan	ese Masses (F12)
Histic Epi	ipedon (A2)	_	Sandy Redox (S5)			Very Shallow	/ Dark Surface (F22)
Black His	STIC (A3) S Sulfido (A4)	-	Stripped Matrix	((56) 87)			Other (Expla	in in Remarks)
Hyuruger		-	Dark Surface (07) Minoral (E1)				
2 cm Mu		-	Loamy Gleved	Matrix (F2)				
	Below Dark Surface (4		X Depleted Matri	x (F3)				
Thick Da	rk Surface (A12)		Redox Dark Si	urface (F6)			³ The hydric soil inc	licators have been updated to
Sandy M	ucky Mineral (S1)	-	Depleted Dark	Surface (F7)		comply with the	Field Indicators of Hydric Soils
5 cm Mu	cky Peat or Peat (S3)	-	Redox Depress	sions (F8)	,		in the United St	ates, Version 8.0, 2016.
estrictive La	ver (if observed):		·	()				
	yei (ii obseiveu).							
Depth (inc	ches).					Hydric S	oil Present?	Yes X No
YDROLO	GY ology Indicators:							
rimary Indica	tors (minimum of one i	s required: check all						
	Nator (A1)	•	that apply)				Secondary Indicate	ors (minimum of two required)
Surface V		·	that apply) Water-Stained	Leaves (B9))		Secondary Indicate	ors (minimum of two required) Cracks (B6)
Surface \ High Wat	ter Table (A2)		that apply) Water-Stained Aquatic Fauna	Leaves (B9) (B13))		Secondary Indicato	ors (minimum of two required) Cracks (B6) tterns (B10)
Surface \ High Wat Saturation	ter Table (A2) n (A3)	-	that apply) Water-Stained Aquatic Fauna True Aquatic P	Leaves (B9) (B13) lants (B14))		Secondary Indicato Surface Soil Drainage Pa Dry-Season	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2)
Surface \ High Wat Saturation Water Ma	ter Table (A2) n (A3) arks (B1)	- - -	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi	Leaves (B9) (B13) lants (B14) de Odor (C1)		Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8)
Surface \ High Wat Saturation Water Ma Sediment	ter Table (A2) n (A3) arks (B1) t Deposits (B2)	- - - -	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on)) Living Root	s (C3)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9)
Surface \ High Wat Saturatio Water Ma Sediment Drift Dep	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	- - - -	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron) Living Root (C4)	s (C3)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1)
Surface \ High Wat Saturatio Water Ma Sediment Drift Depu	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	- - - - - -	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T) Living Root (C4) illed Soils ((s (C3) C6)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Surface \ High Wan Saturatio Water Ma Sediment Drift Depe Algal Mat Iron Depe	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	- - - - - - -	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7)) Living Root (C4) illed Soils ((s (C3) C6)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Surface \ High Was Saturatio Water Ma Sediment Drift Depu Algal Mat Iron Depo Inundatio	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima	- - - - gery (B7)	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9)) Living Root (C4) illed Soils ((s (C3) C6)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dept Algal Mat Iron Dept Inundatio Sparsely	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave St	 gery (B7) urface (B8)	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks)) Living Root (C4) illed Soils ((s (C3) C6)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely ield Observa	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave St tions:	gery (B7) urface (B8)	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron educed Iron reduction in T face (C7) Data (D9) in Remarks)) Living Root (C4) illed Soils ((s (C3) C6)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Surface \ High War Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely ield Observa Surface Water	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave St tions:	gery (B7) urface (B8) Yes <u>No X</u>	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks)) Living Root (C4) illed Soils ((s (C3) C6)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Surface \ High War Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely ield Observa Surface Water Vater Table P	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave St tions: r Present?	gery (B7) urface (B8) YesNoX YesNoX	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain Depth (inches): Depth (inches):	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks) <u>N/A</u> N/A) Living Root (C4) illed Soils ((s (C3) C6)	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely Field Observa Gurface Water Vater Table P Gaturation Pre	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave Su tions: r Present?	gery (B7) 	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain Depth (inches): Depth (inches):	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u>) Living Root (C4) illed Soils ((s (C3) C6) d Hydrolog	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5) Yes No X
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely Surface Water Vater Table P Saturation Pre Sa	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave St tions: r Present?	gery (B7) urface (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u>	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surl Gauge or Well Other (Explain Depth (inches): Depth (inches):	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron educed Iron eduction in T face (C7) Data (D9) in Remarks) <u>N/A</u> <u>N/A</u>) Living Root (C4) illed Soils ((s (C3) C6) I Hydrolog	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5) Yes NoX
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely Field Observa Surface Water Vater Table P Saturation Pre includes capil Describe Reco	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave So tions: r Present? Sent? lary fringe) orded Data (stream gau	gery (B7) urface (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u>	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain Depth (inches): Depth (inches): aerial photos, previous	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> <u>N/A</u>) Living Root (C4) illed Soils (() Wetland	s (C3) C6) d Hydrolog able:	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5) Yes NoX
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely Field Observa Surface Water Nater Table P Saturation Pre includes capill Describe Recc	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave St tions: r Present?	gery (B7) urface (B8) Yes No X Yes No X Yes No X Yes No X	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain Depth (inches): Depth (inches): aerial photos, previo	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks) <u>N/A</u> <u>N/A</u> N/A Outs inspection) Living Root (C4) illed Soils (() Wetland	s (C3) C6) d Hydrolog able:	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	res (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5) Yes <u>No X</u>
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely ield Observa Surface Water Vater Table P Saturation Pre includes capil Describe Recco Remarks:	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave St Vegetated Concave St tions: r Present?	gery (B7) urface (B8) Yes No X Yes No X Yes No X Yes No X	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain Depth (inches): Depth (inches): aerial photos, previo	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> ous inspection) Living Root (C4) illed Soils (() Wetland ons), if avail	s (C3) C6) d Hydrolog able:	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	Yes <u>Ves No X</u>
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely Field Observa Surface Water Vater Table P Saturation Pre includes capill Describe Reco Remarks:	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave Su tions: r Present?	gery (B7) urface (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u> Jge, monitoring well,	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain Depth (inches): Depth (inches): aerial photos, previous	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> ous inspection) Living Root (C4) illed Soils (() Wetland ons), if avail	s (C3) C6) Hydrolog able:	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	res (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5) Yes NoX
Surface \ High Wa' Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Inundatio Sparsely ield Observa Surface Water Vater Table P Saturation Pre includes capill Describe Reco Remarks:	ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave St tions: r Present? Present? Sent? lary fringe) orded Data (stream gau	gery (B7) urface (B8) Yes No X Yes No X Yes No X	that apply) Water-Stained Aquatic Fauna True Aquatic P Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain Depth (inches): Depth (inches): aerial photos, previo	Leaves (B9) (B13) lants (B14) de Odor (C1 ospheres on educed Iron eduction in T face (C7) Data (D9) in Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> ous inspection) Living Root (C4) illed Soils (() Wetland	s (C3) C6) I Hydrolog able:	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic X FAC-Neutral	res (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5) Yes <u>No X</u>

Project/Site:	Northeast Corner of County Line & Arlington			City/County	: Indianapolis/Ma	arion	Sampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn			State	: IN	Sampling Point:	dp07
Investigator(s):	Ben Hess & Paige Eichelberger				Section, Townsh	ip, Range: S23 T14N R4E	
Landform (hillslope	e, terrace, etc.):				Loca	al relief (concave, convex, none): none
Slope (%):	1% Lat:	39.63779278		Long:	-86	6.05966551	Datum: NAD83 UTM16N
Soil Map Unit Nam	e: Treaty silty clay loam, 0 to 1 percent slopes (Thr	A)				NWI clas	ssification: none
Are climatic / hydro	plogic conditions on the site typical for this time of y	ear?		Yes	X No	(If no, explain in Remark	.s.)
Are Vegetation	N , Soil N	, or Hydrology N	significantly dist	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	N , Soil N	, or Hydrology N	naturally probler	matic?	(If needed	, explain any answers in Remar	'ks.)
SUMMARY OF	FINDINGS Attach site map showing	sampling point locations	, transects, imp	ortant featur	es, etc.		
Hydrophytic Ve	getation Present?	Yes X	No	Is the	Sampled Ar	ea	
Hydric Soil Pres	sent?	Yes x	No	withir	a Wetland?	Yes	x No
Wetland Hydrol	logy Present?	Yes X	No			_	
Remarks:							
VEGETATION	Use scientific names of plants.					1	
Troc Stratum (Diat			Absolute	Dominant	Indicator	Deminente Test werkeles	
1 (FIOL	size. So facius)		% Cover	Species?	Status	Dominance Test workshee	a.
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:	2 (B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)					Percent of Dominant Species	5
1. Cornus drumm	nondii		100%	Yes	FAC	That Are OBL, FACW, or FA	C: 100% (A/B)
2.							
3.							
4						Prevalence Index workshee	et:
5.							
			100%	= Total Cover		Total % Cover of:	Multiply by:
Lineb Otrething (Dist						That Are OBL, FACW, or FAU	<u></u> <u>A/B</u>
Herb Stratum (Pio		-	609/	Vaa	FAC	OBL species	XI =
2 Geum vernum			5%	No	FAC	FAC species 175	$x_2 = 0.10$
3 Agrimonia parv	viflora		5%	No	FACW	FACU species 5%	$x_{4} = 0.20$
4. Viola sororia	ino a		5%	No	FAC	UPL species	x5 =
5. Toxicodendron	radicans		10%	No	FAC	Column Totals: 185	% (A) 5.55 (B)
6.							
7.						Prevalence Index	= B/A = 3.00
8.							
9.							
10.						Hydrophytic Vegetation Inc	dicators:
11							
12.						1-Rapid Test for Hy	drophytic Vegetation
13.						X 2-Dominance Test is	s >50%
14						X 3-Prevalence Index	is ≤3.0'
15.						4-Morphological Ada	aptations (Provide supporting
16.						data in Remarks or	on a separate sheet)
17							brytic vegetation (Explain)
18.						¹ Indicators of hydric soil and	wetland bydrology must
19.						he present unless disturbed	or problematic
			85%	= Total Cover		so present, unless disturbed	or problematic.
			0070				
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic	
1.						Vegetation	
2.						Present? Ye	es X No
				= Total Cover			
Remarks: (Include	photo numbers here or on a separate sheet.)					•	
1							

Type Topol Lock Texture Remarks D-15" 10YR 4/1 97 10YR 6/8 3 C M Set Loam M D-16" 10YR 4/1 97 10YR 6/8 3 C M Set Loam M Type C.C.Concentration, D.D.Depletion, RM-Rebuced Multix, CS-COvered of Coated Stard Grains *Leastic: PL-Pore Lining, M-Matrix. M Hydric Soll Indicators": Test Indicators of Hydric Solies Inco-Minggrase Bases (F12) Molecular Set	(inches)	Motrix		Podoy Fo	aturas			
Date Bill Cold (MOSV) # 194 Cold Test Date Networks 0:10: 107R 68 3 C M Sit Loam Networks "Type: Cold (MOSV) # 3 C M Sit Loam Networks "Type: Cold (MOSV) # 3 C M Sit Loam Networks "Type: Cold (MOSV) # Sit Loam Networks Networks Networks "Type: Cold (MOSV) # Sit Loam Networks Networks Networks Networks "Type: Cold (MOSV) Sit Loam Networks Networks </th <th></th> <th>Color (moist)</th> <th></th> <th>Redux Fe</th> <th>atures</th> <th>1.002</th> <th>Toxturo</th> <th>Pomorko</th>		Color (moist)		Redux Fe	atures	1.002	Toxturo	Pomorko
D10 1017k 401 97 1017k 608 3 C M Sit Loam "Type:					% Type		Texture	Remarks
Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coaled Sand Grains. *Location: PL=Pore Lining, M=Matrix. Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coaled Sand Grains. *Location: PL=Pore Lining, M=Matrix. Test Indicators of Hydric Solis:	0-16"	10YR 4/1	97	10YR 6/8	3 0	IVI	Silt Loam	
Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sarcd Grains. Test Indicators of Hydric Solis::::::::::::::::::::::::::::::::::::								
"Type: C-Concentration, D=Deptetion, RM=Reduced Matrix, CS=Coverd of Coated Sund Grains. "Accestion: PL=Pore Lining, M=Matrix. "Type: C-Concentration, D=Deptetion, RM=Reduced Matrix, CS=Coverd of Coated Sund Grains." Accestion: PL=Pore Lining, M=Matrix. "Histoid (A1) Sandy Gleyed Matrix (S1) Histoid (A1) Sandy Gleyed Matrix (S3) Black Histoid (A1) Dark Surface (S2) Black Histoid (A1) Dark Surface (S7) Stratified Layers (A5) Learny Moreky Morean (E1) Deptoted Boards Dark Surface (S1) Deptoted Matrix (F3) Sandy Mucky Mineral (S1) Deptoted Dark Surface (F7) Sandy Mucky Mineral (S1) Deptoted Dark Surface (F7) Sandy Mucky Mineral (S1) Depteted Dark Surface (F7) Sandy Mucky Mineral (S1) Depteted Dark Surface (F7) Type: Depteted Surface (F7) Sandy Mucky Mineral (S1) Depteted Dark Surface (F7) Sandy Mucky Mineral (S1) Depteted Dark Surface (F7) Sandy Mucky Mineral (S1) Depteted Dark Surface (F7) Sandy Cleyed Indicators (F7) Sandy Cleyed Matrix (S4) Sandy Cleyed Indicators (F7) Type: Sandy Cleyed Indicators (F7) Sandy Cleyed Matrix (S4) Sandy Cleyed Indicators (F7) Sandy Cleyeed Matrix (S4)<	,							
"Type: C-Cancentration, D-Depletion, RM-Reduced Matrix, CS=Covered or Coated Sand Grains. "Location: PL=Fore Lining, M-Matrix, Plant Sandy Reduced Matrix (S4) Test Indicators of Hydric Solis: Heise: Epideon (A2) Sandy Reduced S(S) Inor-Managenee Masses (F12) Brack Histic (A3) Singped Matrix (S6) Other (Explain in Remarks) Depleted Bonko Dark Surface (A11) Depleted Matrix (F3) Other (Explain in Remarks) Straffed Layers (A5) Learny Olymped Matrix (F3) The hydric soli indicators have been updated to comply with the Field Indicators and been updated to sond bark Surface (F12) Sandy Maday Mineral (S1) Depleted Matrix (F3) The hydric soli indicators have been updated to comply with the Field Indicators of Hydric Solis in the United Strates, Version 8.0, 2016. VENETIONEL SURFICIENT Type: Type: The hydric Soli Indicators (Minimum of two required) Matrix (B1) Depleted Dark Surface (F1) Socondary Indicators (minimum of no required: hock all that apply) Socondary Indicators (minimum of two required) Sandy Matrix (B1) Matrix States (F1) Depleted Dark Surface (C2) Dray-Sanson Water Table (C2) Saturation (A3) Hydrigon Sulface C(C1) Dray-Sanson Water Table (C2) Surface States (F1) Surface States (F1) Saturation (A3) Hydrigon Sulface C(C1) Dray-Sanson Water Table (C2) <								
*Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Lacator: FL=Pone Lining, M=Matrix. *Hatsoc [A1]								
Type: C-Concentration, D-Dapletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains *Location: PE-Ever Lining, M-Matrix, Upper Soli Indicators of Hydric Solis: Histoc pipedon (A2) Sandy Gleyed Matrix (S4) Iron-Marganese Masses (F12) Black Histic (A3) Striped Matrix (S6) Other (Explain in Remarks) Hydrog Solitified (A4) Dark Surface (S7) Other (Explain in Remarks) Pydrog Solitified (A1) Learny Upped Matrix (S6) Other (Explain in Remarks) Depleted Blow Dark Surface (S7) Learny Upped Matrix (S6) Other (Explain in Remarks) Depleted Blow Dark Surface (S7) Redox Dark Surface (F7) orom/by with the Field Indicators have been updated to comply with the Field Indicators and Hydric Solis Samdy Mucky Mineral (S1) Depleted Dark Surface (F7) orom/by with the Field Indicators of Hydric Solis Samtrictic Larger (f observed): Type:								
Type: C-Concentration. D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ^a Location: PL=Pore Lining, M=Matrix. Type: C-Concentration. D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ^a Location: PL=Pore Lining, M=Matrix. Type: C-Concentration. D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ^a Location: PL=Pore Lining, M=Matrix. Histos (L1) Sandy Gleyed Matrix (S6) Unor-Manganeen Masses (F12) Histos (LA) Dark Surface (S7) Unor (Explain in Remarks) Stratified Layrers (A6) Dark Mudy Mineral (F1) Depleted Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Dark Surface (FF) completed Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (FF) completed States. Version 8.0, 2016. Settrictle Layer (If observed): Type: completed States. Version 8.0, 2016. Yper (Inches): Hydric Soil Present? Yes_X No Type: Depleter (Iso) Secondary Indicators (minimum of two required) X Surface Soil Cracks (B6) Dranage Patterns (B10) Dranage Patterns (B10) <td>·······</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> ·</td> <td></td>	·······						·	
Test indicators of Hydric Solts: Histo Eippedon (A2) Sandy Gleyed Matrix (S4)	¹ Type: C=Co	oncentration, D=Depletion	on, RM=Reduced M	Atrix, CS=Covered or Co	ated Sand Grains.	² Location	: PL=Pore Lining, N	//=Matrix.
Hisic Spipolon (A2) Sandy Redox (S5) Itor - Manganese Masses (F12) Hisic Epipolon (A2) Sandy Redox (S5) Uvery Shallow Dark Surface (F22) Hydrogen Suffice (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Dark Mukky (S8) Other (Explain in Remarks) Depleted Bed Work Surface (A11) Compy Gleyed Matrix (F2) *The hydric soil indicators have been updated to comply with the Field Indicators of Hydric Soils in the United States, Version 8.0, 2016. Serie Mukky Mineral (S1) Depleted Bark (F2) in the United States, Version 8.0, 2016. Serie Trick Layer (If observed): Redox Depressions (F8) in the United States, Version 8.0, 2016. Type:	lydric Soil Ir	ndicators ³ :	,	,		Test In	ndicators of Hydric	Soils:
Histic Epipedon (A2) Sandy Redox (S5) Very Shallow Dark Surface (F22) Histic Kilsiic (A3) Stripped Matrix (F6) Other (Explain in Romarks) Histic Kilsiic (A4) Dark Surface (S7) Other (Explain in Romarks) Stratified Layers (A5) Learny Mudy Minreal (F1) Depleted Matrix (F3) 2 cm Mudx (A10) Demy Mudy Minreal (F1) Depleted Matrix (F3) Thick Dark Surface (A11) Depleted Dark Surface (F7) Compy with the Field Indicators Introductors of Hydric Soils in the United States, Version 8.0, 2016. Saturation (F1) Depleted Dark Surface (F7) Secondary Indicators (F8) in the United States, Version 8.0, 2016. Saturation (F1) Depleted Dark Surface (F7) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Water (F1) Water-Stained Laaves (B9) Surface Soil Cracks (B6) Dry-Season (F1) Surface Water (A1) Water-Stained Laaves (B9) Surface Water Table (C2) Surface Water Table (C2) Year Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagory (C9) Saturation Visible on Aerial Imagory (C9) Saturation (A3) Presence of Reduced Inn (C4) Saturation Visible on Aerial Imagory (C9) Saturation Craeseres (Paints (D1)	Histosol	l (A1)		Sandy Gleyed Matr	ix (S4)		Iron-Manga	nese Masses (F12)
Bits Histic (A3) Bitripped Matrix (S3) Cher (Explain in Remarks) Hydrogen Sullide (A4) Dark Surface (S7) Cher (Explain in Remarks) Stratified Jayers (A5) Loamy Mucky Mineral (F1) Comm Muck (A10) Coamy Gleyed Matrix (F2) Depleted Bow Dark Surface (A11) X Depleted Matrix (F3) The hydric soil indicators have been updated to comply with the Field Indicators of Hydric Soils 5 or Muck (A10) Depleted Dark Surface (F6) ** The hydric soil indicators of Hydric Soils 5 or Muck (P3) Startified Jayers (A5) Depleted Dark Surface (F7) comply with the Field Indicators of Hydric Soils 5 or Muck (P3) in the United States , Varsion B.0, 2016. Startified Jayers (Matrix Layers) Hydric Soil Present? Yes X No Depleted Dark Surface (F8) Surface Soil Cracks (B6) Surface Soil Cracks (B6) YMENCLOGY Aquata Fauna (B13) Surface Soil Cracks (B6) Dry-Beson Vater Table (C2) X Surface Water (A1) Aquata Fauna (B13) Dry-Beson Vater Table (C2) Dry-Beson Vater Table (C2) X Surface Water (A1) Hydrogen Sutified Otor (C1) Dry-Beson Vater Table (C2) Dry-Beson Vater Table (C2) X Surface Vater Matrix (B1) Hydrogen Sutified Otor (C1) Dry-Beson Vater Table (C2) Startarian Vater Soila Tacks (B1) Sediment	Histic E	pipedon (A2)		Sandy Redox (S5)			Very Shallo	w Dark Surface (F22)
Implyingen Sulface (Ar) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Matrix (F2) Depleted Stew Dark Surface (A11) X Thick Dark Surface (A21) Redex Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Settrictive Layer (If observed): Type: Type: Depleted Set (S3) Depleted Set (S3) Redox Depressions (F8) in the United States , Version 8.0, 2016. Settrictive Layer (If observed): Type: Depth (Inches): Hydric Soil Present? Yes_X_No_ demarks: Primary Match Variant States (A11) Austraction (A3) Type (If advance (Intimum of two required) X Surface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10) X Surface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10) X Surface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10) X Surface (G2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Surface (B2) Oxidized Rhizospheres on Living Roots	Black H	listic (A3)		Stripped Matrix (S6	i)		Other (Expl	ain in Remarks)
Image: Standing Layers (A5) Learny Mucky Mineral (F1) 2 cm Muck (A10) Learny Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Som Mucky Mineral (S1) Depleted Dark Surface (F7) Depleted Below Dark Surface (F6) comply with the Field Indicators of Hydric Solis Setrictive Layer (If observed): Type: Depleted Bydrog Indicators: Hydric Soli Present? Yes_X_No	Hydroge	en Sulfide (A4)		Dark Surface (S7)				
	Stratifie	ed Layers (A5)		Loamy Mucky Mine	ral (F1)			
□ Oppleted Balow Dark Surface (A11) X Depleted Mark (F3) Thick Dark Surface (A12) Perform Surface (A12) Perform Surface (F7) Perform Surface (F7) Comply with the Field Indicators of Hydric Solis in the United States, Version 8.0, 2016. Restrictive Layer (If observed): Type:	2 cm Mi	uck (A10)		Loamy Gleyed Mat	rix (F2)			
Image: Surface (A12) Redox Dark Surface (F6) **The hydric Soli indicators have been updated to comply with the Field Indicators of Hydric Solis Solis Solis Solis Solid Indicators Pare Deept (S3) Redox Depressions (F8) in the United States, Version 8.0, 2016. Retrictive Layer (If observed): Type: Type:	Deplete	ed Below Dark Surface (A11)	X Depleted Matrix (F3	3)			
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators of Hydric Soils in the United States, Version 8.0, 2016. Restrictive Layer (If observed): Type:	Thick D	ark Surface (A12)		Redox Dark Surfac	e (F6)		³ The hydric soil in	dicators have been updated to
	Sandy N	Mucky Mineral (S1)		Depleted Dark Surf	ace (F7)		comply with th	e Field Indicators of Hydric Soils
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) YUDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Yudrace Water (A1) Water Stained Leaves (B9) Yudrace Water (A1) Water Able (A2) Aquatic Fauna (B13) Dry/Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B2) Drift Deposits (B2) Inin Muck Surface (C7) Gauge or Weil Data (C2) Innuctation Visible on Aerial Imagery (B7) Gauge or Weil Data (D9) Startace (C7) Innuctation Present? Yes No Depth (inches): The Appent (inches): Surface Water Table Present? Yes No Depth (inches): Surface Water Table Present? Yes No Depth (inches): 1* Water Table Present? Yes Yes No Depth (inches):	5 cm Mi	ucky Peat or Peat (S3)		Redox Depressions	s (F8)		in the United S	States, Version 8.0, 2016.
Type:	Restrictive I	aver (if observed):						
Depth Inchesi: Yes X No Depth Inchesi: X No No Itemarks: Itemarks: Itemarks: Secondary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required) X High Water Table (A2) Aquatic Fauna (B13) Durface Soil Cracks (B6) Surface Soil Cracks (B6) Yes Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Sturated or Stressed Plants (D1) Drift Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Sturated or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduced Iron (C4) Sturated or Stressed Plants (D1) Sturated or Yespatch Gauge or Well Data (D9) Yes	Type.	ayer (il observeu).						
Injuite doil Present? Teg	Dopth (ii	nchos):				Hydric S	oil Procont?	Vos X No
Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required) X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Inductors): N/A Sutrace Vater Present? Yes X No Yes X No Depth (inches): M/A Depth (inches): Surface Wetland Hydrology Present?	Netland Hyd	Irology Indicators:						
X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes X No Depth (inches): N/A Mater Table Present? Yes X Depth (inches): Surface Wetland Hydrology Present? Yes X No Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X <td< th=""><th>Primary Indic</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Primary Indic							
High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Fauna (B13) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crafish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Surface Water Present? Yes X No Depth (inches): <u>1</u> * Water Table Present? Yes X No Depth (inches): <u>1</u> * Water Table Present? Yes X No Depth (inches): <u>1</u> * Water Table Present? Yes X No Depth (inches): <u>1</u> * Depth (inches): Surface Wetland Hydrology Present? Yes X No Depth Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	,	cators (minimum of one i	is required: check a	III that apply)			Secondary Indica	tors (minimum of two required)
X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stuned or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Fac-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Sturation Present? Yes No Depth (inches): 1" Water Table Present? Yes No Depth (inches): N/A Saturation Present? Yes No Depth (inches): Surface Micrula Scapillary fringe) Depth (inches): Surface Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	X Surface	cators (minimum of one i Water (A1)	is required: check a	III that apply) Water-Stained Lear	ves (B9)		Secondary Indica	tors (minimum of two required) I Cracks (B6)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Wetland Hydrology Present? Yes X No Saturation Present? Yes X No Depth (inches): N/A Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	X Surface High Wa	cators (minimum of one i Water (A1) fater Table (A2)	is required: check a	Ill that apply) Water-Stained Lea Aquatic Fauna (B13	ves (B9) 3)		Secondary Indica Surface Soi Drainage P	tors (minimum of two required) I Cracks (B6) atterns (B10)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Persent? Yes Staturation Present? Yes X No Depth (inches): 1" Water Table Present? Yes X No Depth (inches): N/A Depth (inches): Surface Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	X Surface High Wa X Saturation	cators (minimum of one i e Water (A1) fater Table (A2) ion (A3)	is required: check a	III that apply) Water-Stained Lea Aquatic Fauna (B13 True Aquatic Plants	ves (B9) 3) \$ (B14)		Secondary Indica Surface Soi Drainage P.	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Sutarcation Present? Yes No Depth (inches): N/A Mater Table Present? Yes No Depth (inches): N/A Saturation Present? Yes No Depth (inches): Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	X Surface High Wa X Saturation Water M	cators (minimum of one i e Water (A1) fater Table (A2) ion (A3) Marks (B1)	is required: check a	III that apply) Water-Stained Lea Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C	ves (B9) 3) s (B14) Ddor (C1)		Secondary Indica Surface Soi Drainage P Dry-Season Crayfish Bu	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Sutarce Water Present? Yes No Yes No Depth (inches): 1" Mater Table Present? Yes No Depth (inches): N/A Saturation Present? Yes X No Depth (inches): No Cincludes capillary fringe) Depth (inches): Surface Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	X Surface High Wa X Saturatio Water M Sedimen	cators (minimum of one i e Water (A1) fater Table (A2) ion (A3) Marks (B1) ent Deposits (B2)	is required: check a	II that apply) Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe	ves (B9) 3) s (B14) Ddor (C1) eres on Living Root	s (C3)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) Irrows (C8) /isible on Aerial Imagery (C9)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Water Table Present? Yes No X Depth (inches): N/A Depth (inches): N/A Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks: Remarks:	X Surface High Water M Water M Sedimen Drift De	cators (minimum of one i e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	is required: check a	III that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Living Root ed Iron (C4)	s (C3)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Surface Water Present? Yes X No Depth (inches): 1" Water Table Present? Yes X No Depth (inches): N/A Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No Depth (inches): Surface (includes capillary fringe) Depth (inches): Surface Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	X Surface High Wa X Saturati Water M Sedimer Drift De Algal Ma	cators (minimum of one i e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)	is required: check a	Il that apply) Water-Stained Lea Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct	ves (B9) 3) s (B14) Ddor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils ((s (C3) C6)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) Irrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): 1" Water Table Present? Yes No X Depth (inches): N/A No Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No Cincludes capillary fringe) Depth (inches): Surface Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	X Surface High Wa X Saturati Water M Sedimen Drift De Algal Ma Iron Dep	cators (minimum of one i e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) posits (B5)	is required: check a	Il that apply) Water-Stained Lea Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Thin Muck Surface	ves (B9) 3) 5 (B14) 5dor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (((C7)	s (C3) C6)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Field Observations: Surface Water Present? Yes X No Depth (inches): 1" Water Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes X No Depth (inches): N/A Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No Output Mo (includes capillary fringe) Depth (inches), previous inspections), if available: Metland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	X Surface High Wa X Saturati Water M Sedimer Drift De Algal Ma Iron Dep Inundati	cators (minimum of one i e Water (A1) fater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) posits (B5) ion Visible on Aerial Ima	is required: check a	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data	ves (B9) 3) s (B14) Ddor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9)	s (C3) C6)	Secondary Indica Surface Soi Drainage P Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Surface Water Present? Yes X No Depth (inches): 1" Water Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes X No Depth (inches): Surface Viculates capillary fringe) Ves X No Depth (inches): Surface Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	X Surface High W: X Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel	cators (minimum of one i e Water (A1) iater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) posits (B5) ion Visible on Aerial Ima ly Vegetated Concave S	is required: check a agery (B7) urface (B8)	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R	ves (B9) 3) s (B14) Odor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (((C7) a (D9) emarks)	s (C3) C6)	Secondary Indica Surface Soi Drainage P Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Water Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	X Surface High Wa X Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel	cators (minimum of one i e 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 S vations:	is required: check a agery (B7) urface (B8)	Il that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R	ves (B9) 3) s (B14) Odor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks)	s (C3) C6)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) Irrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Saturation Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	X Surface High W X Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsely Field Observ	cators (minimum of one i e Water (A1) fater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) posits (B5) ion Visible on Aerial Ima ly Vegetated Concave S vations: er Present?	is required: check a agery (B7) urface (B8) Yes X No	Il that apply) Water-Stained Lea Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R	ves (B9) 3) s (B14) odor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (((C7) a (D9) emarks)	s (C3) C6)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	X Surface High W: X Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Water Table	cators (minimum of one i e Water (A1) fater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) posits (B5) ion Visible on Aerial Ima ly Vegetated Concave S vations: er Present? Present?	is required: check a agery (B7) urface (B8) Yes X No Yes No X	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R	ves (B9) 3) s (B14) bdor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) <u>1"</u>	s (C3) C6)	Secondary Indica Surface Soi Drainage P Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	X Surface High W: X Saturati Water M Sedime Drift De Algal M: Iron Dep Inundati Sparsely Field Observ Surface Wate Water Table Saturation Pr	cators (minimum of one i e Water (A1) (ater Table (A2) (ion (A3) Marks (B1) (ater Deposits (B2) (ater Deposits (B2) (ater Crust (B4)) (ater Crust (B4)) (ate	is required: check a agery (B7) urface (B8) Yes X No Yes X No Yes X No	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R Depth (inches): Depth (inches):	ves (B9) 3) s (B14) bdor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) <u>1"</u> <u>I/A</u> fface Wetland	s (C3) C6) d Hydrolog	Secondary Indica Surface Soi Drainage P. Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Remarks:	X Surface High W: X Saturati Water M Sedime Drift De Algal M: Iron Dep Inundati Sparsely Field Observ Surface Wate Water Table Saturation Pr (includes cap	cators (minimum of one i e Water (A1) (ater Table (A2) (ion (A3) Marks (B1) (ater Deposits (B2) (at or Crust (B4)) (at or Crust (B4)) (at or Crust (B4)) (at or Visible on Aerial Ima (y Vegetated Concave S) (vations: er Present? Present? present? present? poillary fringe)	is required: check a agery (B7) urface (B8) Yes X No Yes No X Yes X No	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R Depth (inches): Depth (inches): N	ves (B9) 3) s (B14) Odor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) <u>1"</u> <u>I/A</u> <u>tface</u> Wetland	s (C3) C6) d Hydrolog	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Remarks:	X Surface High W: X Saturati Water N Sedime Drift De Algal M: Iron De Inundati Sparsely Field Observ Surface Wate Water Table Saturation Pr (includes cap	cators (minimum of one i e Water (A1) (ater Table (A2) (ion (A3) Marks (B1) (ater Deposits (B2) (at or Crust (B4) (at or Crust (B4)) (b) Vegetated Concave S (vations: (at or Present? (ater Present? (ater Present? (ater Present? (ater Present?) (ater Present? (ater Present?) (ater Present Present Present Present Present?) (ater Present Prese	is required: check a agery (B7) urface (B8) Yes X No Yes X No Yes X No uge, monitoring we	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R Depth (inches): N Depth (inches): N Depth (inches): Sur	ves (B9) 3) s (B14) Odor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) 1" <u>I/A</u> <u>frace</u> Wetland inspections), if avai	s (C3) C6) d Hydrolog	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) h Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Remarks:	X Surface High W: X Saturati Water N Sedime Drift De Algal Ma Iron Dep Inundati Sparsely Field Observ Surface Water Water Table Saturation Pr (includes cap Describe Rec	cators (minimum of one i a Water (A1) (ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aerial Ima ly Vegetated Concave S vations: er Present? Present? resent? poillary fringe) corded Data (stream gat	is required: check a agery (B7) urface (B8) Yes X No X Yes X No X Yes X No U	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R Depth (inches): Depth (inches): N Depth (inches): Surface	ves (B9) 3) s (B14) Odor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) 1" <u>I/A</u> <u>trace</u> Wetland inspections), if avai	s (C3) C6) d Hydrolog	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
	X Surface High W X Saturati Water N Sedime Drift De Algal M Iron De Inundati Sparsel Field Observ Surface Wate Vater Table Saturation Pr (includes cap Describe Rec	cators (minimum of one i e 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 S /ations: er Present? Present? Present? resent? billary fringe) corded Data (stream gat	agery (B7) urface (B8) Yes X No X Yes No X Yes X No uge, monitoring we	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R Depth (inches): Depth (inches): N Depth (inches): Surface	ves (B9) 3) s (B14) bdor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) 1" <u>I/A</u> <u>rface</u> wetland inspections), if avai	s (C3) C6) d Hydrolog	Secondary Indica Surface Soi Trainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (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) Yes X No
	X Surface High W: X Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsely Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Rec	cators (minimum of one i e Water (A1) (ater Table (A2) (ion (A3) Marks (B1) (ater Deposits (B2) (ater Crust (B4)) (ater	agery (B7) urface (B8) Yes X No X Yes X No uge, monitoring we	Il that apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R Depth (inches): <u>N</u> Depth (inches): <u>Sur</u> Il, aerial photos, previous i	ves (B9) 3) s (B14) bdor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) <u>1"</u> <u>1/A</u> <u>rface</u> Wetland inspections), if avai	s (C3) C6) d Hydrolog	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
	X Surface High W: X Saturati Water M Sedime Drift De Algal M: Iron De Inundati Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Rec	cators (minimum of one i e Water (A1) (ater Table (A2) (ion (A3) Marks (B1) (ater Table (A2) (ion (A3) Marks (B1) (at or Crust (B4) (posits (B3) (at or Crust (B4)) (posits (B5) (ion Visible on Aerial Ima (y Vegetated Concave S (rations: er Present? Present? Present? (pillary fringe) (corded Data (stream gat	is required: check a agery (B7) urface (B8) Yes <u>X</u> No Yes <u>X</u> No Yes <u>X</u> No uge, monitoring we	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R Depth (inches): Depth (inches): N Depth (inches): Suu	ves (B9) 3) s (B14) bdor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) <u>1"</u> <u>I/A</u> <u>fface</u> Wetland inspections), if avai	s (C3) C6) d Hydrolog	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
	X Surface High W: X Saturati Water N Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Nater Table Saturation Pr Includes cap Describe Rec	cators (minimum of one i e Water (A1) (ater Table (A2) (ion (A3) Marks (B1) (ater Deposits (B2) (at or Crust (B4)) (at or Crust (B4)) (b) Vegetated Concave S (vations: er Present? Present? Present? poillary fringe) (corded Data (stream gates)	is required: check a agery (B7) urface (B8) Yes <u>X</u> No Yes <u>X</u> No Yes <u>X</u> No uge, monitoring we	Il that apply) Water-Stained Lear Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R Depth (inches): <u>N</u> Depth (inches): <u>N</u> Depth (inches): <u>Sur</u> II, aerial photos, previous i	ves (B9) 3) s (B14) Odor (C1) eres on Living Root ed Iron (C4) tion in Tilled Soils (f (C7) a (D9) emarks) 1" <u>I/A</u> <u>frace</u> wetland inspections), if avai	s (C3) C6) d Hydrolog	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphic FAC-Neutra	tors (minimum of two required) I Cracks (B6) atterns (B10) h Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No

Project/Site:	Northeast Corner of County Line & Arlington			City/County	· Indiananolis/M	arion	Sampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn			State	· INI	Sampling Point:	dp08
	Ren Hers & Daigo Eisbolhorger			Siale	Section Townshi	in Range: 922 T44N D4F	4000
Investigator(s):				;	Section, TownSh	up, manye. <u>523 114N R4E</u>	
Landform (nillslope	e, terrace, etc.):	~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~			Loca	al relier (concave, convex, r	one): none
Slope (%):	3% Lat:	39.63774853		Long:	-86	6.05937598	Datum: NAD83 UTM16N
Soil Map Unit Nam	e: Treaty silty clay loam, 0 to 1 percent slopes (Th	ırA)				NW	classification: none
Are climatic / hydro	ologic conditions on the site typical for this time of	year?		Yes	X No	(If no, explain in Rer	narks.)
Are Vegetation	N, Soil N	, or Hydrology N	significantly dis	sturbed?	Are "Norm	al Circumstances" present	? Yes X No
Are Vegetation	N , Soil N	, or Hydrology N	naturally proble	ematic?	(If needed	, explain any answers in Re	emarks.)
SUMMARY OF	FINDINGS Attach site map showin	a sampling point location	ons. transects. im	portant featur	es. etc.		
Hydrophytic Ve	actation Present?	Ves	No x	le the	Sampled Ar	02	
Hydric Soil Pres	cont?	Vos			a Wetland?	Vo	s No X
Wetland Hydro	logy Present?	Yes			ra Wettania.	10	
Trotiana riyaro				-			
VEGETATION	Ose scientific hames of plants.		Absolute	Dominant	Indicator		
Tree Stratum (Plot	t size: 30' radius)		Absolute % Cover	Species?	Statue	Dominance Tost works	sheet.
1 Celtis occident	alie		70%	Vae	FAC	Sommance rest works	noor.
2 Convo overt	uio		10%	No	EACU	Number of Demisent Co	
2. Carya ovata			10%	INO	FACU	That Are ODL 5AOM	
3						That Are OBL, FACW, o	FAC: 2 (A)
4							
5.			·			Total Number of Domina	nt
			80%	= Total Cover		Species Across All Strate	a: <u>4</u> (B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)					Percent of Dominant Spe	ecies
1. Cornus drumm	nondii		10%	No	FAC	That Are OBL, FACW, o	r FAC: 50% (A/B)
2. Celtis occident	alis		5%	No	FAC		
3. Lonicera maac	:kii		90%	Yes	UPL		
4.						Prevalence Index works	sheet:
5			·				
5.			105%	- Total Covor		Total % Cover a	f: Multiply by:
r			105%			That Are OBL_EACW_or	EAC:
Harb Stratum (Dia	t size: E' radius)					ORL apacies	
Herb Stratum (Pio		_	400/	Vez	540		XI =
1. Carex blanda			10%	tes	FAC	FACW species	X2 =
2. Geum vernum			5%	<u>No</u>	FACU	FAC species	100% X3 = 3.00
3. Lonicera maac	:KII		10%	Yes	UPL	FACU species	15% x4 = 0.60
4. Toxicodendron	n radicans		5%	No	FAC	UPL species	100% x5 = 5.00
5.						Column Totals:	<u>215%</u> (A) <u>8.60</u> (B)
6.							
7						Prevalence In	dex = B/A =4.00
8							
9.							
10.				_		Hydrophytic Vegetation	n Indicators:
11.						-	
12.					·	1-Rapid Test for	r Hydrophytic Vegetation
13			·			2-Dominance Te	est is >50%
14						3-Prevalence In	dex is ≤3.0 ¹
15						4-Morphological	Adaptations ¹ (Provide supporting
16						doto in Danial	a or on a concrete sheet)
47						Droblomotic Use	s or on a separate sneet)
17							arophytic vegetation (Explain)
18						1	
19						indicators of hydric soil a	and wetland hydrology must
20.						be present, unless distur	bed or problematic.
			30%	= Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic	
1.						Vegetation	
2.						Present?	Yes No X
				= Total Cover			
Pomarka: (Incluid-	photo numbers here or an a concrete at					ļ	
Remarks: (Include	photo numbers here of on a separate sheet.)						
1							

Denth	• •						,		
Depui	Matrix		Re	dox Features	1		-		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Re	emarks
0-16"	10YR 4/2	100					Silt Loam		
¹ Type: C=C	Concentration, D=Depl	etion, RM=Reduce	ed Matrix, CS=Covere	d or Coated S	and Grains.	² Locatio	n: PL=Pore Lining,	M=Matrix.	
Hydric Soil	Indicators':					Test I	ndicators of Hydri	c Soils:	
Histoso	ol (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	anese Masses (F1	2)
Histic E	Epipedon (A2)		Sandy Redo	ox (S5)			Very Shalle	ow Dark Surface (F	=22)
Black H	Histic (A3)		Stripped Ma	trix (S6)			Other (Exp	lain in Remarks)	
Hydrog	gen Sulfide (A4)		Dark Surfac	e (S7)					
Stratifie	ed Layers (A5)		Loamy Muc	ky Mineral (F1)				
2 cm N	/luck (A10)		Loamy Gley	ed Matrix (F2)					
Deplete	ed Below Dark Surface	e (A11)	Depleted Ma	atrix (F3)					
Thick E	Dark Surface (A12)		Redox Dark	Surface (F6)			³ The hydric soil i	ndicators have bee	en updated to
Sandy	Mucky Mineral (S1)		Depleted Da	ark Surface (F	7)		comply with the	ne Field Indicators	of Hydric Soils
5 cm N	Aucky Peat or Peat (S3	3)	Redox Depr	essions (F8)			in the United	States, Version 8.0	0, 2016.
Restrictive I	Layer (if observed):								
Type:									
Depth ((inches):					Hydric \$	Soil Present?	Yes	No X
HYDROL Wetland Hyd	.OGY drology Indicators:								
HYDROL Wetland Hyd	.OGY drology Indicators: icators (minimum of on	e is required: che	ck all that apply)				Secondary Indica	ators (minimum of	two required)
HYDROL Wetland Hyd Primary India Surface	OGY drology Indicators: icators (minimum of on the Water (A1)	e is required: cheo	k all that apply) Water-Stain	ed Leaves (B	9)		Secondary Indica	ators (minimum of bil Cracks (B6)	two required)
HYDROL Wetland Hyd Primary India Surface High W	OGY drology Indicators: icators (minimum of on æ Water (A1) Vater Table (A2)	e is required: cheo	k all that apply) Water-Stain Aguatic Fau	ed Leaves (Bs	9)		Secondary Indica	ators (minimum of il Cracks (B6) Patterns (B10)	two required)
HYDROL Wetland Hyd Primary India Surface High W Saturat	OGY drology Indicators: icators (minimum of on e Water (A1) Vater Table (A2) tion (A3)	e is required: cheo	ok all that apply) Water-Stain Aquatic Fau True Aquati	ed Leaves (Bs na (B13) c Plants (B14)	9)		Secondary Indica	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2	two required)
HYDROL Wetland Hyd Primary India Surface High W Saturat Water	OGY drology Indicators: icators (minimum of on re Water (A1) Vater Table (A2) tion (A3) Marks (B1)	e is required: cheo	ck all that apply) Water-Stain Aquatic Fau True Aquati Hydrogen S	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C	9)		Secondary Indica Surface So Drainage F Dry-Seaso Cravfish B	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8)	two required)
HYDROL Wetland Hyu Primary Indi Surface High W Saturat Water Sedime	OGY drology Indicators: icators (minimum of on e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	e is required: cheo	ck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or	9) 1)	s (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir	two required) ?) nagery (C9)
HYDROL Wetland Hyu Primary Indi Surface High W Saturat Water Sedime Drift De	OGY drology Indicators: icators (minimum of on e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	e is required: cheo	ck all that apply) Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror	9) 1)) Living Root	s (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I	two required) 2) nagery (C9) 21)
HYDROL Wetland Hyd Primary India Surface High W Saturat Water Sedime Drift De Algal M	OGY drology Indicators: icators (minimum of on e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4)	e is required: cheo	k all that apply) Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in	9) 1) I Living Root I (C4) Tilled Soils (J	s (C3)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B 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) 2) magery (C9) D1)
HYDROL Wetland Hyd Primary India Surface High W Saturat Water Sedime Drift De Algal M Iron De	OGY drology Indicators: icators (minimum of on e Water (A1) Vater Table (A2) ttion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)	e is required: chea	k all that apply) Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in	9) 1) I Living Root I (C4) Tilled Soils (s (C3) C6)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B 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 ic Position (D2)	two required) 2) nagery (C9) D1)
HYDROL Wetland Hyd Primary Indii Surfaca High W Saturat Water Sedime Drift De Algal M Iron De	OGY drology Indicators: icators (minimum of on ie Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)	e is required: cheo	k all that apply) Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7)	9) 1) I Living Root I (C4) Tilled Soils (I	s (C3) C6)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) ?) nagery (C9) D1)
HYDROL Wetland Hyd Primary India Surface High W Saturat Water Sedime Drift De Algal M Iron De Inundar	OGY drology Indicators: icators (minimum of on e Water (A1) Vater Table (A2) titon (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial In ally Vegetated Concave	e is required: cheo magery (B7)	Ck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Fynla	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remark	9) 1) 1 Living Root 1 (C4) Filled Soils ((rs (C3) C6)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) ?) magery (C9) D1)
HYDROL Wetland Hyu Primary Indi Surface High W Saturat Water Sedime Drift De Algal M Iron De Inundar Sparse	OGY drology Indicators: icators (minimum of on 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 In ely Vegetated Concave	ne is required: chea magery (B7) e Surface (B8)	ck all that apply) Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Gurface (C7) fell Data (D9) ain in Remarks	9) 1 Living Root 1 (C4) Filled Soils (1 5)	s (C3) C6)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B 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) ral Test (D5)	two required) 2) nagery (C9) D1)
HYDROL Wetland Hyu Primary India Surface High W Satural Water Sedime Drift De Algal M Iron De Inundar Sparse Field Observ	OGY drology Indicators: icators (minimum of on 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 In ely Vegetated Concave	magery (B7) Surface (B8)	ck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Oauge or W Other (Expland)	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Gurface (C7) fell Data (D9) ain in Remarks	9) 1) Living Root I (C4) Tilled Soils ((s (C3) C6)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) nagery (C9) D1)
HYDROL Wetland Hy Primary Indi Surface High W Saturat Water Drift De Algal M Iron De Inunda Sparse	OGY drology Indicators: icators (minimum of on ice Water (A1) Vater Table (A2) tition (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial In ely Vegetated Concave vations: ter Present?	magery (B7) Surface (B8)	xk all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rr Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchest	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) 'ell Data (D9) ain in Remarks	9) 1) Living Root I (C4) Filled Soils ((s (C3) C6)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I stressed Plants (I ic Position (D2) al Test (D5)	two required) ?) nagery (C9) D1)
HYDROL Wetland Hyd Primary Indii Surface High W Saturat Water Sedime Drift De Algal M Iron De Inundar Sparse Field Obsert Surface Wat	OGY drology Indicators: icators (minimum of on ie Water (A1) Vater Table (A2) tition (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) attion Visible on Aerial In ely Vegetated Concave vations: tter Present? e Present?	magery (B7) e Surface (B8) Yes No Yes No	xk all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchest X Depth (inchest	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A s): N/A	 a) 1) b) b) c) <	s (C3) C6)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) nagery (C9) D1)
HYDROL Wetland Hyd Primary Indii Surface High W Saturat Water Sedime Drift De Algal M Iron De Inunda Sparse Field Observ Surface Wat Water Table	.OGY drology Indicators: icators (minimum of on ie Water (A1) Vater Table (A2) tition (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tition Visible on Aerial In ely Vegetated Concave rvations: tter Present? e Present? Present?	magery (B7) Surface (B8) Yes No Yes No Yes No	2k all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchest X Depth (inchest	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remarks s): N/A s): N/A	9) 1 Living Root 1 (C4) Tilled Soils (1 5) Wetland	s (C3) C6) d Hydrolo	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) ral Test (D5)	two required) 2) nagery (C9) D1) No X
HYDROL Wetland Hy Primary Indii Surface High W Satural Water Sedime Drift De Algal M Iron De Inunda Sparse Field Obser Surface Wate Water Table Saturation P (includes ca	OGY drology Indicators: icators (minimum of on e Water (A1) Vater Table (A2) titon (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial In ely Vegetated Concave vations: ter Present? e Present? Present? pillary fringe)	magery (B7) 9 Surface (B8) Yes No Yes No	2k all that apply) Water-Stain Aquatic Fau True Aquatic True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explay X Depth (inchest X Depth (inchest X Depth (inchest	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remarks s): N/A s): N/A	2) 1) 1 Living Root (C4) Tilled Soils ((s) Wetland	c6)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) ral Test (D5) Yes	two required) 2) nagery (C9) D1) No X
HYDROL Wetland Hy Primary Indi Surface High W Satural Water Sedime Drift De Algal M Iron De Inundar Sparse Field Observ Surface Wat Water Table Saturation P (includes cal Describe Re	OGY drology Indicators: icators (minimum of on e Water (A1) Vater Table (A2) tition (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial In ely Vegetated Concave evations: ther Present? Present? Present? Present? pupillary fringe) ecorded Data (stream of	magery (B7) e Surface (B8) Yes No Yes No Yes No Yes No gauge, monitoring	xk all that apply) Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rr Presence of Recent Iron Thin Muck S Gauge or W Other (Expland) X Depth (inchests) X <td>ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) 'ell Data (D9) ain in Remarks s): N/A s): N/A s): N/A evious inspect</td> <td>9) 1 Living Root 1 (C4) Tilled Soils ((5) Wetland ions), if avai</td> <td>s (C3) C6) d Hydrolo</td> <td>Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr</td> <td>ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)</td> <td>two required) 2) nagery (C9) D1) No X</td>	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) 'ell Data (D9) ain in Remarks s): N/A s): N/A s): N/A evious inspect	9) 1 Living Root 1 (C4) Tilled Soils ((5) Wetland ions), if avai	s (C3) C6) d Hydrolo	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) nagery (C9) D1) No X
HYDROL Wetland Hyd Primary Indi Surface High W Saturat Water Sedime Drift De Algal M Iron De Inunda Sparse Field Observ Surface Wat Water Table Saturation P (includes ca Describe Re	OGY drology Indicators: icators (minimum of on ie Water (A1) Vater Table (A2) tition (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial In ely Vegetated Concave vations: ter Present? Present? Present? Present? pillary fringe) ecorded Data (stream of	e is required: cheo magery (B7) Surface (B8) Yes No Yes No Yes No gauge, monitoring	2k all that apply) Water-Stain Aquatic Fau True Aquatic True Aquatic Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explay X Depth (inchest	ed Leaves (B9 na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Gurface (C7) fell Data (D9) ain in Remarks s): N/A s): N/A s): N/A evious inspect	a) 1) 1 Living Root (C4) Tilled Soils (S) Wetland ions), if avai	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) magery (C9) D1) No X
HYDROL Wetland Hy Primary Indi Surface High W Saturat Water Sedime Drift De Algal M Iron De Inundar Sparse Field Obser Surface Wate Water Table Saturation P (includes can Describe Re	OGY drology Indicators: icators (minimum of on 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 In ely Vegetated Concave rvations: ter Present? e Present? Present? Present? ecorded Data (stream of	magery (B7) e Surface (B8) Yes No Yes No Yes No gauge, monitoring	2k all that apply) Water-Stain Aquatic Fau True Aquatic True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explay X Depth (inchest X Depth (inchest Well, aerial photos, pro	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remarks s): N/A s): N/A s): N/A	9) 1) 1 Living Root 1 (C4) Tilled Soils (5) Wetland ions), if avai	s (C3) C6) d Hydrolo	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B 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) ral Test (D5) Yes	two required) 2) magery (C9) D1) No X
HYDROL Wetland Hy Primary Indi Surface High W Saturat Water Sedime Drift De Algal M Iron De Inundar Sparse Field Obsert Surface Wat Water Table Saturation P (includes cal Describe Re	COGY drology Indicators: icators (minimum of on ie Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial In ely Vegetated Concave vations: ther Present? Present? Present? pillary fringe) ecorded Data (stream of	magery (B7) e Surface (B8) Yes No Yes No Yes No gauge, monitoring	2k all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explast X Depth (inchest X Depth (inchest X Depth (inchest X Depth (inchest	ed Leaves (BS na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) 'ell Data (D9) ain in Remarks s): N/A s): N/A s): N/A	9) 1) 1 Living Root 1 (C4) Tilled Soils (s) Wetland ions), if avai	s (C3) C6) d Hydrolo	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) magery (C9) D1) No X
HYDROL Wetland Hy Primary Indi Surface High W Satural Water Drift De Algal M Iron De Inunda Sparse Field Observ Surface Wat Water Table Saturation P (includes cal Describe Re	OGY drology Indicators: icators (minimum of on ie Water (A1) Vater Table (A2) tition (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial In ely Vegetated Concave rvations: tter Present? e Present? Present? pipillary fringe) ecorded Data (stream of	magery (B7) • Surface (B8) Yes No Yes No Yes No gauge, monitoring	xk all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rr Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchest	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) 'ell Data (D9) ain in Remarks s): N/A s): N/A s): N/A evious inspect	 a) 1) b) Living Root b) (C4) c) (C4) c) (I) (I) (I) (I) (I) (I) (I) (I) (I) (I	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) nagery (C9) D1) No X
HYDROL Wetland Hy Primary Indi Surface High W Saturat Water Sedime Drift De Algal M Iron De Inunda Sparse Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	OGY drology Indicators: icators (minimum of on ie Water (A1) Vater Table (A2) tition (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ation Visible on Aerial In ely Vegetated Concave vations: ter Present? Present? Present? Present? pillary fringe) ecorded Data (stream of	e is required: cheo magery (B7) Surface (B8) Yes No Yes No Yes No gauge, monitoring	2k all that apply) Water-Stain Aquatic Fau True Aquatic True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchest X </td <td>ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A s): N/A s): N/A evious inspect</td> <td>a) 1) 1 Living Root (C4) Tilled Soils (s) Wetland ions), if avai</td> <td>s (C3) C6) d Hydrolo</td> <td>Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr</td> <td>ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)</td> <td>two required) 2) magery (C9) D1) No X</td>	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A s): N/A s): N/A evious inspect	a) 1) 1 Living Root (C4) Tilled Soils (s) Wetland ions), if avai	s (C3) C6) d Hydrolo	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ators (minimum of bil Cracks (B6) Patterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial Ir Stressed Plants (I ic Position (D2) al Test (D5)	two required) 2) magery (C9) D1) No X

Project/Site:	Northeast Corner of County Line & Arlington			City/County	: Indianapolis/M	arion	Sa	ampling Date: 5/12/	2022
Applicant/Owner:	Kimley Horn			State	: IN	Sampling Point:		dp09	
Investigator(s):	Ben Hess & Paige Eichelberger				Section, Townsh	ip, Range: S23 T14N R4	4E		
Landform (hillslope	, terrace, etc.):				Loca	al relief (concave, conve	x, none): <u>non</u>	ie	
Slope (%):	2% Lat:	39.63826813		Long:	-8	6.05779524		Datum: NAD83 U	FM16N
Soil Map Unit Name	e: Crosby silt loam, fine-loamy subsoil, 0 to 2 per	cent slopes (CrA)				N	IWI classificat	tion: none	
Are climatic / hydro	logic conditions on the site typical for this time of	year?		Yes	X No	(If no, explain in I	Remarks.)		
Are Vegetation	N , Soil N	, or Hydrology N	significantly dist	urbed?	Are "Norm	al Circumstances" prese	ent?	Yes X No	
Are Vegetation	<u> </u>	, or Hydrology N	naturally proble	matic?	(If needed	, explain any answers in	Remarks.)		
SUMMARY OF	FINDINGS Attach site map showin	g sampling point location	ons, transects, imp	portant featur	es, etc.				
Hydrophytic Veg	getation Present?	Yes X	No	Is the	Sampled Ar	ea		No	
Wetland Hydrol	ogy Present?	Yes X	No No	withir	i a wetiand?		res x		
Remarks:				<u> </u>					
VEGETATION	Use scientific names of plants.					1			
T			Absolute	Dominant	Indicator				
1 (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test wo	rksheet:		
2.						Number of Dominant	Species		
3.			· · · · · · · · · · · · · · · · · · ·	·		That Are OBL, FACW	, or FAC:	2	(A)
4.									
5.						Total Number of Dom	inant		
				= Total Cover		Species Across All St	.rata:	2	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant	Species	400%	(4/D)
1			· .	·		That Are OBL, FACW	, or FAC:	100%	(A/B)
3			<u></u> _	·					
4.				·		Prevalence Index wo	orksheet:		
5.									
				= Total Cover		Total % Cove	er of:	Multiply by	<i>y</i> :
						That Are OBL, FACW,	, or FAC:		A/B
Herb Stratum (Plot	t size: 5' radius)					OBL species	65%	x1 = 0.6	5
1. Ranunculus sco	eleratus		45%	Yes	OBL	FACW species	15%	x2 = 0.3	0
2. Eleocharis obtu	ISa		20%	Yes No.		FAC species		X3 =	
4 Veronica pereo	nina		10%	No	FACW	LIPL species			
5.	nna		10%			Column Totals:	80%	(A) 0.9	5 (B)
6.									
7.						Prevalence	e Index = B/A	= 1.19	
8.									
9.									
10						Hydrophytic Vegeta	tion Indicato	ors:	
11									
12.			<u></u> _	·		X 1-Rapid Test	for Hydrophy	tic Vegetation	
13.			·			X 3-Prevalence	3 Test Is >50% 9 Index is <3 (‰ ∩ ¹	
14				·		4-Morpholog	ical Adaptatic	ons ¹ (Provide suppo	ortina
16.			·	·		data in Rem	arks or on a s	separate sheet)	
17.				·		Problematic	Hydrophytic	Vegetation ¹ (Explai	n)
18.									
19.			·			¹ Indicators of hydric set	oil and wetlar	nd hydrology must	
20.						be present, unless dis	sturbed or pro	oblematic.	
			80%	= Total Cover					
h									
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic			
1				·		vegetation	Vac	No	
<u>∠</u>				- Total Cover		Present?	res X		
				= Total Cover					
Remarks: (Include	photo numbers here or on a separate sheet)					4			

Deptii	Matrix		Dodo	v Features				
inches)	Color (mojet)	%	Color (moist)		Type ¹	1 oc^2	Texture	Romarke
				70		LUC		Remarks
0-16	101K 5/1	90	101K 5/0	4	0	IVI	Clay Loam	
							. <u> </u>	
		<u> </u>					<u> </u>	
							· ·	
¹ Type: C=C	Concentration, D=Depletic	on, RM=Reduced	Matrix, CS=Covered c	or Coated Sa	nd Grains.	² Locatio	n: PL=Pore Lining, N	M=Matrix.
lydric Soil	Indicators ³ :					Test I	ndicators of Hydric	Soils:
Histoso	ol (A1)		Sandy Gleyed	Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic E	Epipedon (A2)		Sandy Redox	(S5)			Very Shallo	w Dark Surface (F22)
Black H	Histic (A3)		Stripped Matrix	x (S6)			Other (Expl	ain in Remarks)
Hydrog	gen Sulfide (A4)		Dark Surface	(S7)				
Stratifie	ed Layers (A5)		Loamy Mucky	Mineral (F1)				
2 cm N	/luck (A10)		Loamy Gleyed	Matrix (F2)				
Deplete	ed Below Dark Surface (A	A11)	X Depleted Matr	ix (F3)				
Thick E	Dark Surface (A12)		Redox Dark S	urface (F6)			³ The hydric soil in	dicators have been updated to
Sandy	Mucky Mineral (S1)		Depleted Dark	Surface (F7)		comply with th	e Field Indicators of Hydric Soils
5 cm N	lucky Peat or Peat (S3)		Redox Depres	sions (F8)			in the United S	States, Version 8.0, 2016.
Restrictive I	Layer (if observed):							
Type:	,							
Depth ((inches):					Hvdric S	Soil Present?	Yes X No
	067							
чепапи пу	.OGY drology Indicators:							
Primary Indi	OGY drology Indicators: icators (minimum of one is	s required: check	all that apply)				Secondary Indica	tors (minimum of two required)
Primary Indi X Surface	OGY drology Indicators: icators (minimum of one i e Water (A1)	s required: check	all that apply) Water-Stained	Leaves (B9)		Secondary Indica	tors (minimum of two required) il Cracks (B6)
Primary India X Surface X High W	OGY drology Indicators: cators (minimum of one i e Water (A1) Vater Table (A2)	s required: check	all that apply) Water-Stained Aquatic Fauna	l Leaves (B9 1 (B13))		Secondary Indica Surface So Drainage P	tors (minimum of two required) il Cracks (B6) atterns (B10)
Primary India X Surface X High W X Saturat	OGY drology Indicators: cators (minimum of one i e Water (A1) Vater Table (A2) tion (A3)	s required: check	all that apply) Water-Stained Aquatic Fauna True Aquatic F	l Leaves (B9 i (B13) Plants (B14))		Secondary Indica Surface So Drainage P Dry-Seasor	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2)
Primary India X Surface X High W X Saturat Water	OGY drology Indicators: icators (minimum of one i e Water (A1) Vater Table (A2) tion (A3) Marks (B1)	s required: check	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf	I Leaves (B9 (B13) Plants (B14) ide Odor (C ²)		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8)
Primary India X Surface X High W X Saturat Water Sedime	OGY drology Indicators: icators (minimum of one i e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	s required: check	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhizo	I Leaves (B9 I (B13) Plants (B14) ide Odor (C ⁷ ospheres on) I) Living Roots	(C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation	tors (minimum of two required) il Cracks (B6) atterns (B10) h Water Table (C2) irrows (C8) visible on Aerial Imagery (C9)
Primary India X Surface X High W X Saturat Water Sedime Drift De	OGY drology Indicators: icators (minimum of one i e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	s required: check	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhizo Presence of R	I Leaves (B9 (B13) Plants (B14) ide Odor (C ⁷ ospheres on educed Iron) I) Living Roots (C4)	(C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) Irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M	OGY drology Indicators: cators (minimum of one i e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4)	s required: check	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhizo Presence of R Recent Iron Ro	I Leaves (B9 (B13) Plants (B14) ide Odor (C' ospheres on educed Iron educetion in T) Living Roots (C4) iilled Soils (C	. (C3) :6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi	tors (minimum of two required) il Cracks (B6) atterns (B10) o Water Table (C2) Irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De	OGY drology Indicators: cators (minimum of one i e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)	s required: check	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Ru Thin Muck Sur	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron educetion in T rface (C7)) Living Roots (C4) illed Soils (C	- (C3) -6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) o Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De Inunda	OGY drology Indicators: icators (minimum of one i 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 Ima	s required: check	all that apply) Water-Stained Aquatic Fauna True Aquatic Fa Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sun Gauge or Well	I Leaves (B9 a (B13) Plants (B14) ide Odor (C ⁷ ospheres on educed Iron educed Iron eduction in T rface (C7) I Data (D9)) Living Roots (C4) illed Soils (C	. (C3) 6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Primary Indi X Surface X High W X Satural Water Sedime Drift De X Algal M Iron De Inunda Sparse	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave Sig	s required: check gery (B7) urface (B8)	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhizd Presence of R Recent Iron Ra Thin Muck Sun Gauge or Well Other (Explain	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron educed Iron eduction in T rface (C7) I Data (D9) i in Remarks) Living Roots (C4) illed Soils (C	- (C3) -6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De Inunda Sparse Field Obser	OGY drology Indicators: cators (minimum of one i 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 Ima ely Vegetated Concave Su vations:	s required: check gery (B7) urface (B8)	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sur Gauge or Well Other (Explain	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron eduction in T rface (C7) I Data (D9) i in Remarks) Living Roots (C4) illed Soils (C	- (C3) 6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) o Water Table (C2) Irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De Inunda Sparse Field Obser Surface Wat	OGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave So vations: ter Present?	s required: check gery (B7) urface (B8) Yes X No	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sun Gauge or Well Other (Explain	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron educed Iron eduction in T rface (C7) I Data (D9) i in Remarks 2") Living Roots (C4) illed Soils (C	. (C3) 6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De Inunda Sparse Surface Wat Nater Table	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave So vations: ter Present?	s required: check ngery (B7) urface (B8) Yes_X_No	all that apply) Water-Stained Aquatic Fauna True Aquatic Fauna Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron eduction in T fface (C7) I Data (D9) i in Remarks <u>2"</u> <u>3"</u>) Living Roots (C4) illed Soils (C	. (C3) ;6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Primary Indi X Surface X High W X Saturat Water Sedime Drift De Algal M Iron De Inunda Sparse Surface Water Surface Water Saturation P	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave Se vations: ter Present? Present?	s required: check gery (B7) urface (B8) Yes X No Yes X No	all that apply) Water-Stained Aquatic Fauna True Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron eduction in T rface (C7) I Data (D9) in Remarks <u>2"</u> <u>3"</u> Surface) Living Roots (C4) illed Soils (C	. (C3) :6) Hydrolo	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) mrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Primary Indi X Surface X High W X Satural Water Sedime Drift De Algal M Iron De Inunda Sparsee Field Obser Surface Water Water Table Saturation P (includes ca	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave Se vations: ter Present? Present? pillary fringe)	s required: check ligery (B7) urface (B8) Yes X No Yes X No Yes X No	all that apply) Water-Stained Aquatic Fauna True Aquatic Fauna True Aquatic Fauna Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron eduction in T rface (C7) I Data (D9) in Remarks 2" 3" Surface) Living Roots (C4) illed Soils (C) Wetland	. (C3) 6) Hydrolo	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Primary Indi X Surface X High W X Satural Water Sedime Drift De X Algal M Iron De Inunda Sparse Field Obser Surface Water Surface Water Surface Water Saturation P (includes cal Describe Re	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave So vations: ter Present? Present? pillary fringe) ecorded Data (stream gau	s required: check gery (B7) urface (B8) Yes X No Yes X No Yes X No	all that apply) Water-Stained Aquatic Fauna True Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron eduction in T frace (C7) I Data (D9) in Remarks 2" 3" Surface ious inspecti) Living Roots (C4) illed Soils (C) Wetland ons), if availa	(C3) 6) Hydrolog	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Primary Indi X Surface X High W X Satural Water Sedime Drift De Drift De Inunda Sparse Field Obser Surface Water Table Saturation P (includes cal Describe Re	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave So vations: ter Present? Present? Present? pillary fringe) ecorded Data (stream gat	s required: check agery (B7) urface (B8) Yes X No Yes X No Yes X No	all that apply) Water-Stained Aquatic Fauna True Aquatic Fauna True Aquatic Fauna Oxidized Rhizd Presence of R Recent Iron Re Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C' ospheres on educed Iron eduction in T face (C7) I Data (D9) i in Remarks 2" 3" Surface) Living Roots (C4) illed Soils (C) Wetland ons), if availa	(C3) 6) Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De Inunda Sparse Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	OGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave Su vations: ter Present? Present? pillary fringe) ecorded Data (stream gau	is required: check ligery (B7) urface (B8) Yes X No Yes X No Yes X No uge, monitoring w	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sun Gauge or Well Other (Explain Depth (inches): Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron educetion in T rface (C7) I Data (D9) in Remarks 2" 3" Surface ious inspecti) Living Roots (C4) illed Soils (C) Wetland	(C3) 6) Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) o Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De Inunda Sparse Field Obser Surface Water Surface Water Surface Water Surface Re Remarks:	OGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave Su vations: ter Present? Present? Present? pillary fringe) ecorded Data (stream gau	s required: check ngery (B7) urface (B8) Yes X No Yes X No Yes X No	all that apply) Water-Stained Aquatic Fauna True Aquatic Fauna True Aquatic Fauna Mydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sun Gauge or Well Other (Explain Depth (inches): Depth (inches): Depth (inches): ell, aerial photos, previ	I Leaves (B9 (B13) Plants (B14) ide Odor (C' ospheres on educed Iron eduction in T rface (C7) I Data (D9) i in Remarks 2" 3" Surface ious inspecti) Living Roots (C4) illed Soils (C) Wetland ons), if availa	(C3) 6) Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De Inunda Sparse Surface Wat Vater Table Saturation P (includes ca Describe Re Remarks:	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave Se vations: ter Present? Present? Present? pillary fringe) ecorded Data (stream gau	s required: check ligery (B7) urface (B8) Yes X No Yes X No Yes X No uge, monitoring w	all that apply) Water-Stained Aquatic Fauna True Aquatic Fauna Hydrogen Sulf Oxidized Rhizd Presence of R Recent Iron Rd Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C ⁻ ospheres on educed Iron eduction in T frace (C7) I Data (D9) in Remarks 2" 3" Surface ious inspecti) Living Roots (C4) illed Soils (C) Wetland	(C3) 6) Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Primary Indi X Surface X High W X Satural Water Sedime Drift De X Algal M Iron De Inunda Sparsee Field Obser Surface Wate Saturation P (includes ca Describe Re Remarks:	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave So vations: ter Present? Present? pillary fringe) ecorded Data (stream gat	s required: check ligery (B7) urface (B8) Yes X No Yes X No Yes X No uge, monitoring w	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhizd Presence of R Recent Iron Rd Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron eduction in T frace (C7) I Data (D9) in Remarks 2" 3" Surface ious inspecti) Living Roots (C4) illed Soils (C) Wetland ons), if availa	(C3) 6) Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Primary Indi X Surface X High W X Satural Water Sedime Drift De X Algal M Iron De Inunda Sparse ield Obser Surface Wate Vater Table Saturation P includes ca Describe Re	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave So vations: ter Present? Present? Present? pillary fringe) ecorded Data (stream gat	s required: check lgery (B7) urface (B8) Yes X No Yes X No Yes X No uge, monitoring w	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhizd Presence of R Recent Iron Rd Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C ² ospheres on educed Iron eduction in T frace (C7) I Data (D9) in Remarks 2" 3" Surface ious inspecti) Living Roots (C4) illed Soils (C) Wetland ons), if availa	(C3) 6) Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) h Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Primary Indi X Surface X High W X Saturat Water Sedime Drift De X Algal M Iron De Inunda Sparse Geld Obser Saturation P Includes ca Describe Re Remarks:	COGY drology Indicators: icators (minimum of one i 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 Ima ely Vegetated Concave So vations: ter Present? Present? pillary fringe) ecorded Data (stream gau	s required: check agery (B7) urface (B8) Yes X No Yes X No Yes X No uge, monitoring w	all that apply) Water-Stained Aquatic Fauna True Aquatic F Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Thin Muck Sur Gauge or Well Other (Explain Depth (inches): Depth (inches): Depth (inches):	I Leaves (B9 (B13) Plants (B14) ide Odor (C' ospheres on educed Iron eduction in T face (C7) I Data (D9) in Remarks 2" 3" Surface ious inspecti) Living Roots (C4) iilled Soils (C) Wetland ons), if availa	(C3) 6) Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
Project/Site:	Northeast Corner of County Line & Arlington			City/County:	Indianapolis/Ma	arion Sampli	ng Date: 5/12/2022	
---	--	-----------------------------	--------------------	---------------	------------------	---	--------------------------------	
Applicant/Owner:	Kimley Horn			State:	IN	Sampling Point:	dp10	
Investigator(s):	Ben Hess & Paige Eichelberger			5	Section, Townshi	p, Range: S23 T14N R4E		
Landform (hillslope	, terrace, etc.):				Loca	I relief (concave, convex, none): none		
Slope (%):	1% Lat:	39.63982065		Long:	-86	5.05721341 Date	um: NAD83 UTM16N	
Soil Map Unit Name	e: Treaty silty clay loam, 0 to 1 percent slopes (ThrA)					NWI classification:	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	significantly dist	urbed?	Are "Norm	al Circumstances" present? Ye	es X No	
Are Vegetation	N, Soil N	, or Hydrology N	naturally problem	natic?	(If needed,	explain any answers in Remarks.)		
SUMMARY OF	FINDINGS Attach site map showing sa	ampling point locations, to	ransects, imp	ortant featur	es, etc.			
Hydrophytic Ve	getation Present?	Yes <u> x</u> N	o	Is the	Sampled Ar	ea		
Hydric Soil Pres	sent?	Yes <u>X</u> N	0	within	a Wetland?	Yes <u>x</u>	No	
welland Hydrol	ogy Present?		0					
Remarks:								
VEGETATION	Use scientific names of plants.							
Tree City (C			Absolute	Dominant	Indicator			
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:		
1						Number of Dominant Spacios		
3						That Are OBL_FACW_or FAC	2 (A)	
4.							2 (//)	
5.						Total Number of Dominant		
				= Total Cover		Species Across All Strata:	2 (B)	
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant Species		
1						That Are OBL, FACW, or FAC:	100% (A/B)	
2								
3.								
4						Prevalence Index worksheet:		
5.				Tatal Causa		Total % Course of	Maddin I. Jan	
				= Total Cover		That Are OBL FACW or FAC:	A/B	
Herb Stratum (Plot	t size: 5' radius)					OBL species 27% x1	1 = 0.27	
1. Phalaris arundi	inacea		5%	No	FACW	FACW species 7% x2	2 = 0.14	
2. Eleocharis obtu	Isa		10%	Yes	OBL	FAC species x3	3 =	
3. Eleocharis palu	istris		15%	Yes	OBL	FACU species x4	4 =	
4. Alisma subcord	latum		2%	No	OBL	UPL species x5	5 =	
5. Bidens frondos	а		2%	No	FACW	Column Totals: 34% (A)	0.41 (B)	
6.								
7						Prevalence Index = B/A =	1.21	
8								
9				·				
10						nydrophytic vegetation indicators:		
12.						X 1-Rapid Test for Hydrophytic V	/egetation	
13.						X 2-Dominance Test is >50%	ogotation	
14.						X 3-Prevalence Index is $\leq 3.0^{1}$		
15.						4-Morphological Adaptations ¹ (Provide supporting	
16.						data in Remarks or on a sepa	rate sheet)	
17.						Problematic Hydrophytic Vege	etation ¹ (Explain)	
18.								
19.						¹ Indicators of hydric soil and wetland hy	drology must	
20						be present, unless disturbed or problem	natic.	
			34%	= Total Cover				
W I. M								
vvoody Vine Stratu	m (Piot size: 30 radius)					Hydrophytic		
1						Present? Yes Y	No	
<u>۲. </u>				- Total Covor		riesent? Yes X		
Remarks: (Include	photo numbers here or on a separate sheet.)					4		

(inches) Color (moist) % Type ¹ Loc ² 0-16" 10YR 3/1 96 10YR 5/6 4 C M	Texture Remarks Clay Loam
0-16* 10YR 3/1 96 10YR 5/6 4 C M	Clay Loam
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locati dric Soil Indicators ¹ : Test Histosol (A1) Sandy Gleyed Matrix (S4) Histosol (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) X Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Meet or Peat (S3) Redox Depressions (F8) strictive Layer (if observed): Type: Type:	on: PL=Pore Lining, M=Matrix. Indicators of Hydric Soils:
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locati ydric Soil Indicators ³ : Test Histosol (A1)	on: PL=Pore Lining, M=Matrix. Indicators of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils</i> <i>in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locati ydric Soil Indicators ³ : Test Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type: Depleted Ident Surface (A12) Type: Hydric Depth (inches): Hydric marks: YDROLOGY YUROLOGY Yatrace Water (A1) Water-Table (A2) Aquatic Fauna (B13) High Water Table (A2) Aquatic Fauna (B13)	on: PL=Pore Lining, M=Matrix. Indicators of Hydric Soils:
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locati ydric Soil Indicators ³ : Test Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Matrix (F3) Type: Depleted Dark Surface (F6) Sandy Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type: Depleted Matrix (S4) Depleted Matrix (S4) Hydric ymarks: Hydric	on: PL=Pore Lining, M=Matrix. Indicators of Hydric Soils:
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locati ydric Soil Indicators ³ : Test Histosol (A1) Sandy Gleyed Matrix (S4) Histosol (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Meneral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type: Depth (inches): Hydroc omarks: Hydrocogy Indicators: Primary Indicators (minimum of one is required: check all that apply) X X Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	on: PL=Pore Lining, M=Matrix. Indicators of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils</i> <i>in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locati ydric Soil Indicators ³ : Test Histosol (A1) Sandy Gleyed Matrix (S4) Histosol (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type: Depth (inches): Hydroic ormarks: YDROLOGY Yurface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	on: PL=Pore Lining, M=Matrix. Indicators of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locati ydric Soil Indicators ³ : Test Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X S andy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type:	on: PL=Pore Lining, M=Matrix. Indicators of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locati Iydric Soil Indicators ³ : Test Histosol (A1) Sandy Gleyed Matrix (S4) Histosol (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) Eterrictive Layer (if observed): Type: Type:	on: PL=Pore Lining, M=Matrix. Indicators of Hydric Soils:
ydric Soil Indicators ³ : Test Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X S andy Mucky Mineral (S1) Depleted Dark Surface (F6) S andy Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type:	Indicators of Hydric Soils: Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Depth (inches): Hydrogo Indicators: trimary Indicators (minimum of one is required: check all that apply) X X Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	Iron-Manganese Masses (F12) Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils</i> <i>in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric emarks: Primary Indicators (minimum of one is required: check all that apply) X Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	Very Shallow Dark Surface (F22) Other (Explain in Remarks) ³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils</i> <i>in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Peat or Peat (S3) Redox Depressions (F8) estrictive Layer (if observed): Type: Type: Pepth (inches): Depth (inches): Hydric emarks: Primary Indicators: Primary Indicators (minimum of one is required: check all that apply) X X Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	Other (Explain in Remarks) ³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Peat or Peat (S3) Redox Depressions (F8) testrictive Layer (if observed): Type: Type:	³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Type:	³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Type:	³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils</i> <i>in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) S cm Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Hydric emarks: Hydric Primary Indicators: Primary Indicators (minimum of one is required: check all that apply) X Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13)	³ The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils</i> <i>in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
Thick Dark Surface (A12) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) testrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric emarks: Primary Indicators: Primary Indicators (minimum of one is required: check all that apply) X X Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13)	 ³The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils in the United States</i>, Version 8.0, 2016. Soil Present? Yes X No
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric emarks: Primary Indicators: Primary Indicators (minimum of one is required: check all that apply) X X Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	comply with the <i>Field Indicators of Hydric Soils</i> <i>in the United States</i> , Version 8.0, 2016. Soil Present? Yes X No
5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) testrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric emarks: Hydric YDROLOGY Yetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) X X Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	in the United States , Version 8.0, 2016. Soil Present? Yes X No
estrictive Layer (if observed): Type: Depth (inches): Hydric emarks: Hydric Primary Indicators: Primary Indicators: Primary Indicators (minimum of one is required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13)	Soil Present? Yes X No
Type:	Soil Present? Yes X No
Depth (inches): Hydric emarks: Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) X Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13)	Soil Present? Yes X No
Primary Indicators: Primary Indicators (minimum of one is required: check all that apply) X Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13)	
/etland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) X Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13)	
Yimary Indicators (minimum of one is required: check all that apply) X Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13)	
High Water Table (A2) Aquatic Fauna (B13)	Secondary indicators (minimum of two required)
High Water Lable (A2) Aquatic Fauna (B13)	
	Drainage Patterns (B10)
X Saturation (A3) I rue Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
X Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	X FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
ield Observations:	
Surface Water Present? Yes X No Depth (inches): 1"	
Vater Table Present? Yes No X Depth (inches): N/A	
Caturation Present? Yes X No Depth (inches): Surface Wetland Hydrol	ogy Present? Yes X No
ncludes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

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 Eichelberger				Section, Townsh	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):				Loca	al relief (concave, convex, none)	: none
Slope (%):	1% Lat:	39.64014022		Long:	-8	6.05674374	Datum: NAD83 UTM16N
Soil Map Unit Nam	e: Treaty silty clay loam, 0 to 1 percent slopes (Th	nrA)				NWI clas	sification: none
Are climatic / hydro	logic conditions on the site typical for this time of	year?		Yes	X No	(If no, explain in Remarks	5.)
Are Vegetation	N , Soil N	, or Hydrology N	significantly distu	irbed?	Are "Norm	nal Circumstances" present?	Yes X No
Are Vegetation	N, Soil N	, or Hydrology N	naturally problem	natic?	(If needed	l, explain any answers in Remark	(S.)
SUMMARY OF	FINDINGS Attach site map showin	g sampling point locatio	ns, transects, imp	ortant featur	es, etc.		
Hydrophytic Ve	getation Present?	Yes x	No	Is the	Sampled Ar	rea	
Hydric Soil Pres	sent?	Yes	No X	within	n a Wetland?	Yes	No <u>x</u>
Wetland Hydrol	logy Present?	Yes <u>x</u>	No				
Remarks:							
VEGETATION	Use scientific names of plants.		Abaaluta	Deminent	la dia ata a		
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet	
1. Quercus palus	tris		20%	Yes	FACW	Dominance rest worksheet	
2. Fraxinus penns	sylvanica		30%	Yes	FACW	Number of Dominant Species	
3. Ulmus america	na		10%	No	FACW	That Are OBL, FACW, or FAC	C: 5 (A)
4. Celtis occidenta	alis		10%	No	FAC		
5.						Total Number of Dominant	
			70% =	= Total Cover		Species Across All Strata:	5 (B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)		E9/	Vaa	EAC	Percent of Dominant Species	
Acer saccharin			10%	Yes	FAC	THAL ATE ODE, FACTV, OF FAC	<u>— 100%</u> (А/В)
3.			1078	163	1400		
4.						Prevalence Index worksheet	E .
5.							
			15% =	= Total Cover		Total % Cover of:	Multiply by:
						That Are OBL, FACW, or FAC	:: A/B
Herb Stratum (Plot	t size: 5' radius)	_				OBL species 10%	x1 = 0.10
1. Symphyotrichu	m lanceolatum		65%	Yes	FAC	FACW species 70%	$x_2 = 1.40$
2. Boehmeria cyli	ndrica		10%	No	OBL	FAC species 80%	$x_3 = 2.40$
3							X4 =
4						Column Totals: 160%	(A) = (B)
6.							<u> </u>
7.						Prevalence Index =	= B/A = 2.44
8.							
9.							
10.						Hydrophytic Vegetation Ind	licators:
11							
12.						1-Rapid Test for Hyd	rophytic Vegetation
13.						2-Dominance Lest is	>50%
14				·		4-Morphological Ada	s = 5.0
16				·		data in Remarks or d	on a separate sheet)
17.						Problematic Hydropl	hytic Vegetation ¹ (Explain)
18.							
19.						¹ Indicators of hydric soil and v	vetland hydrology must
20.						be present, unless disturbed	or problematic.
			75%	= Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic	
1						vegetation	V No
<u>ک</u>				Total Cavar		Present? Yes	<u> </u>
				= rotal Cover			
Remarks: (Include	photo numbers here or on a separate sheet)					4	
,							

Jopui	Matrix		Re	dox Features					
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks
0-16"	10YR 2/2	98	10YR 7/8	2	C	М	Clay Loam		
		·							
Type: C=Co	ncentration, D=Depletic	on, RM=Redu	ced Matrix, CS=Covere	d or Coated S	and Grains.	² Locatio	n: PL=Pore Lining,	M=Matrix.	
dric Soil In	dicators ³ :					Test I	Indicators of Hydrie	c Soils:	
Histosol	(A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	anese Masses (F12)	
Histic Ep	vipedon (A2)		Sandy Redo	x (S5)			Very Shallo	ow Dark Surface (F22)	
Black Hi	stic (A3)		Stripped Ma	trix (S6)			Other (Exp	lain in Remarks)	
Hydroge	n Sulfide (A4)		Dark Surfac	e (S7)					
Stratified	Layers (A5)		Loamy Muc	ky Mineral (F1)				
2 cm Mu	ck (A10)		Loamy Gley	ed Matrix (F2)					
Depleted	Below Dark Surface (A	A11)	Depleted Ma	atrix (F3)					
Thick Da	ark Surface (A12)		Redox Dark	Surface (F6)			³ The hydric soil ir	ndicators have been up	odated to
Sandy N	lucky Mineral (S1)		Depleted Da	ark Surface (F	7)		comply with th	ne Field Indicators of H	ydric Soils
5 cm Mu	cky Peat or Peat (S3)		Redox Depr	essions (F8)			in the United	States, Version 8.0, 20	16.
estrictive La	ver (if observed):								
Tvpe:									
Denth (in	abaa):					Hydric	Soil Present?	Yes	No X
marks:	<u> </u>					- iyuno			
marks:	OGY								
marks: YDROLC etland Hydr	OGY ology Indicators:								
marks: YDROLC etland Hydir rimary Indica	OGY rology Indicators: ators (minimum of one is	s required: ch	eck all that apply)				Secondary Indica	ators (minimum of two r	required)
The second secon	DGY ology Indicators: ators (minimum of one is Water (A1)	s required: ch	eck all that apply) X_Water-Stain	ed Leaves (B	9)		Secondary Indica	ators (minimum of two r	required)
marks: YDROLC etland Hydr rimary Indica Surface High Wa	DGY ology Indicators: ators (minimum of one is Water (A1) tter Table (A2)	s required: ch	eck all that apply) X Water-Stain	ed Leaves (Bs na (B13)	9)		Secondary Indica Surface Sc Drainage F	ators (minimum of two r vil Cracks (B6) Patterns (B10)	required)
The second secon	DGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3)	s required: ch	eck all that apply) X Water-Stain Aquatic Fau	ed Leaves (B na (B13) c Plants (B14)	9)		Secondary Indica Surface Sc Drainage F Dry-Seaso	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2)	required)
marks: YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M	DGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1)	s required: ch	eck all that apply) X Water-Stain Aquatic Fau True Aquati Hydrogen S	ed Leaves (B9 na (B13) c Plants (B14) ulfide Odor (C	9)		Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8)	required)
marks: YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M Sedimer	DGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2)	s required: ch	eck all that apply) X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	ed Leaves (B9 na (B13) c Plants (B14) ulfide Odor (C izospheres or	9) :1) h Living Roots	s (C3)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image	required) ery (C9)
marks: YDROLC etland Hydr rimary Indica Surface High Wa Saturation Water M Sedimer Drift Dep	DGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3)	s required: ch	eck all that apply) X Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror	9) :1) n Living Roots n (C4)	s (C3)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1)	required) ery (C9)
marks: YDROLC etland Hydr imary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	DGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3) tt or Crust (B4)	s required: ch	eck all that apply) X Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reducetion in	9) 1) n Living Roots n (C4) Tilled Soils (C	s (C3)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) Jurrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2)	required) ery (C9)
marks: YDROLC etland Hydr imary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	DGY rology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) osits (B5)	s required: ch	eck all that apply) X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7)	9) 1) n Living Roots n (C4) Tilled Soils (C	5 (C3) 56)	Secondary Indica Surface So Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5)	required) ery (C9)
Marks: TOROLC etland Hydri imary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio	DGY ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima	s required: ch	eck all that apply) X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9)	9) 51) n Living Roots n (C4) Tilled Soils (C	s (C3)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r vil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5)	required) ery (C9)
marks: YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	DGY ology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima v Vegetated Concave St	s required: ch gery (B7) urface (B8)	eck all that apply) X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks	9) 1) n Living Roots n (C4) Tilled Soils (C	s (C3)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5)	required) ery (C9)
marks: YDROLC etland Hydr rimary Indica Surface High Wa Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	DGY ology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima v Vegetated Concave Su ations:	s required: ch gery (B7) urface (B8)	eck all that apply) X Water-Stain Aquatic Fau True Aquatii Hydrogen S Oxidized Rh Oxidized Rh Recent Iron Recent Iron Gauge or W Other (Explain)	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks	9) 1) n Living Roots n (C4) Tilled Soils (C s)	s (C3)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5)	required) ery (C9)
marks: YDROLC etland Hydr imary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely eld Observa urface Wate	DGY ology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima v Vegetated Concave Su ations: r Present?	s required: ch gery (B7) urface (B8) Yes No	Aquatic Fau X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B4 na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks	9) 1) n Living Roots n (C4) Tilled Soils (C s)	5 (C3) 56)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5)	required) ery (C9)
marks: (DROLC etland Hydri imary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely eld Observa urface Wate ater Table F	DGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) arks (B1) arks (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima vegetated Concave St ations: r Present?	s required: ch gery (B7) urface (B8) Yes No Yes No	All that apply) X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rr Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchest X Depth (inchest	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A	9) 1) n Living Roots n (C4) Tilled Soils (C s)	s (C3)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5)	required) ery (C9)
marks: (DROLC) etland Hydri imary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely etl Observa urface Wate ater Table F turation Pre	DGY rology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave Su ations: r Present?	s required: ch gery (B7) urface (B8) Yes No Yes X No	eck all that apply) X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explase) X Depth (inchests) X Depth (inchests) Depth (inchests)	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A s): N/A	9) 1) 1 Living Roots 1 (C4) Tilled Soils (C s) Wetland	s (C3) C6)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5)	required) ery (C9)
marks: YDROLC etland Hydr imary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely eld Observa Jurface Wate aturation Pre- aturation Pre- atura	DGY ology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima v Vegetated Concave Su tions: r Present? Present? Sesent?	s required: ch gery (B7) urface (B8) Yes No Yes No Yes No	A Water-Stain	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A s): N/A s): Surface	9) 1) n Living Roots n (C4) Tilled Soils (C s) Wetlanc	s (C3) C6)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two n bil Cracks (B6) Patterns (B10) n Water Table (C2) Jurrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5) Yes X	required) ery (C9)
marks: YDROLC etland Hydr rimary Indica Surface High Wa Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely eld Observa vater Table F aturation Pre- ncludes capi escribe Rec	DGY ology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima v Vegetated Concave St ations: r Present?	s required: ch gery (B7) urface (B8) Yes <u>No</u> Yes <u>X</u> No	Augustic Fau X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explation) X Depth (inchest X Depth (inchest Depth (inchest Question Depth (inchest) X Depth (inchest) Question Depth (inchest) X Depth (inchest) Question Depth (inchest) X	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A s): N/A s): Surface evious inspect	9) 1) 1 Living Roots 1 (C4) Tilled Soils (C s) Wetlanc tions), if avail	s (C3) C6)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5) Yes X	required) ery (C9)
marks: YDROLC etland Hydr rimary Indica Surface High Wa Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely eld Observa urface Wate /ater Table F aturation Pre- ncludes capi escribe Rec	DGY ology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) bosits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima v Vegetated Concave St ations: r Present? Present? Sesen	s required: ch gery (B7) urface (B8) Yes No Yes X No Ige, monitorir	A Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explation) X Depth (inchest) X Depth (inchest) Depth (inchest) Reg well, aerial photos, properties	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A s): N/A s): N/A s): Surface	9) 1) 1 Living Roots 1 (C4) Tilled Soils (C s) Wetlanc tions), if avail	s (C3) (C6) I Hydrolo able:	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5) Yes X	required) ery (C9)
marks: YDROLC etland Hydri rimary Indica Surface High Wa Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely eld Observa urface Wate /ater Table F aturation Pre- ncludes capi escribe Rec	DGY ology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima vVegetated Concave Su attions: r Present? Present? Sesent ? Sesent? Sesent ? Ses	s required: ch gery (B7) urface (B8) Yes No Yes X No uge, monitorir	eck all that apply) X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain X Depth (inchests) Y Depth (inchests) X Depth (inchests) Y Depth (inchests) <	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Gurface (C7) ell Data (D9) ain in Remarks b): N/A c): N/A c): N/A c): Surface	9) 1) 1 Living Roots 1 (C4) Tilled Soils (C s) Wetlanc tions), if avail	s (C3) (C3) I Hydrolo able:	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bi Saturation X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5) Yes X	required) ery (C9)
PMARKS: PMARKS: PMARKS PMARKS PMARKS: PMARKS: PMARKS: PMARKS: PMARKS: PMARKS PMARKS PMAR	DGY ology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) bosits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima 'Vegetated Concave Su ttions: r Present? Present? Sesent? llary fringe) orded Data (stream gau	s required: ch gery (B7) urface (B8) Yes No Yes No Yes No uge, monitorir	aeck all that apply) X Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expland) X Depth (inchests) X Depth (inchests) Depth (inchests) New Well, aerial photos, provide	ed Leaves (B4 na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Surface (C7) ell Data (D9) ain in Remarks s): N/A s): N/A s): N/A s): Surface	9) 1) 1 Living Roots 1 (C4) Tilled Soils (C s) Wetlanc tions), if avail	s (C3) (C3) I Hydrolo able:	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5) Yes X	required) ery (C9)
Primarks: Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatid Sparsely eld Observa urface Wate /ater Table F aturation Pre ncludes capi escribe Rec emarks:	DGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima v Vegetated Concave Su ations: r Present? Present? Sesent? llary fringe) orded Data (stream gau	s required: ch s required: ch gery (B7) urface (B8) Yes No Yes No Yes No Yes No	Auge X Water-Stain Aquatic Fau True Aquatic True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expland) X Depth (inchest X Depth (inchest y Depth (inchest <td>ed Leaves (B4 na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Gurface (C7) ell Data (D9) ain in Remarks b): N/A b): N/A b): N/A b): Surface</td> <td>9) 1) 1 Living Roots 1 (C4) Tilled Soils (C s) Wetlanc tions), if avail</td> <td>s (C3) C6)</td> <td>Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or X Geomorph X FAC-Neutr</td> <td>ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5) Yes X</td> <td>required) ery (C9)</td>	ed Leaves (B4 na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in Gurface (C7) ell Data (D9) ain in Remarks b): N/A b): N/A b): N/A b): Surface	9) 1) 1 Living Roots 1 (C4) Tilled Soils (C s) Wetlanc tions), if avail	s (C3) C6)	Secondary Indica Surface Sc Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or X Geomorph X FAC-Neutr	ators (minimum of two r bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Image Stressed Plants (D1) ic Position (D2) al Test (D5) Yes X	required) ery (C9)

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:	dp12
Investigator(s):	Ben Hess & Paige Eichelberger			5	Section, Townsh	ip, Range: S23 T14N R4E	
Landform (hillslope,	, terrace, etc.):				Loca	al relief (concave, convex, none): c	convex
Slope (%):	2% Lat:	39.64008176		Long:	-8	ô.05668292	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loam, 0 to 1 percent slopes (Th	rA)				NWI classif	ication: none
Are climatic / hydrol	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	significantly dist	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	N, Soil N	, or Hydrology N	naturally probler	natic?	(If needed	, explain any answers in Remarks.)
SUMMARY OF	FINDINGS Attach site map showing	g sampling point locatio	ns, transects, imp	ortant featur	es, etc.		
Hydrophytic Veg	getation Present?	Yes x	No	Is the	Sampled Ar	ea	
Hydric Soil Pres	sent?	Yes	No X	within	a Wetland?	Yes	No <u>x</u>
Wetland Hydrol	ogy Present?	Yes	No <u>x</u>				
Remarks:							
VEGETATION -	Use scientific names of plants.						
Tree Stratum (Plot	size: 30' radius)		Absolute % Cover	Dominant Species?	Indicator	Dominanco Tost workshoot:	
1 Gleditsia triacar	athos		25%	Species : Yes	FACIL	Dominance rest worksheet.	
2. Ulmus rubra	11100		15%	No	FAC	Number of Dominant Species	
3. Celtis occidenta	alis		20%	Yes	FAC	That Are OBL, FACW, or FAC:	4 (A)
4. Acer rubrum			20%	Yes	FAC		
5.						Total Number of Dominant	
			80%	= Total Cover		Species Across All Strata:	7 (B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant Species	
1. Lonicera maach	kii		85%	Yes	UPL	That Are OBL, FACW, or FAC:	57% (A/B)
2. Cornus drumme	ondii		5%	No	FAC		
3							
4.						Prevalence Index worksheet:	
5.			90%	- Total Cover		Total % Cover of:	Multiply by:
			90 %			That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	size: 5' radius)					OBL species	x1 =
1. Osmorhiza long	gistylis	_	10%	Yes	FACU	FACW species 10%	x2 = 0.20
2. Impatiens cape	nsis		10%	Yes	FACW	FAC species 80%	x3 = 2.40
3. Alliaria petiolata	1		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) <u>8.45</u> (B)
6							
7				. <u> </u>		Prevalence Index = B	3/A =3.93
8							
9 10				·		Hydrophytic Vegetation Indic	ators
10			·	·		Tyurophytic vegetation mulea	alors.
12.				·		1-Rapid Test for Hydro	phytic Vegetation
13.						X 2-Dominance Test is >	50%
14.						3-Prevalence Index is ≤	≤3.0 ¹
15.						4-Morphological Adapta	ations ¹ (Provide supporting
16.						data in Remarks or on	a separate sheet)
17						Problematic Hydrophy	tic Vegetation ¹ (Explain)
18						1	
19						'Indicators of hydric soil and wet	land hydrology must
20						be present, unless disturbed or	problematic.
L			45%	= Total Cover			
Woody Vizz Otz	(Distaize: 20' radius)					Widronbutio	
1	(FIOL SIZE. SU TAUIUS)					Vegetation	
2.						Present? Yes	X No
-·				= Total Cover			<u> </u>
Remarks: (Include	photo numbers here or on a separate sheet.)					-	

Implementation Secondary Indicators Secondary Indicators Type:	· –	Matrix		Redox	<pre>K Features</pre>					
6-16* 10VR 3/1 100 Image: Status in the status in th	nches)	Color (moist)	% 0	color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
	0-16"	10YR 3/1	100					Silt Loam		
yper: Ca-Concentration, Da-Depletion, RM=Reduced Matrix, CSa-Covered or Coated Sand Grains. *Locators: PL=Pore Lining, M=Matrix. Histoc Epideon (A2) Sandy Cleved Matrix (S4) Test Indicators of Hydric Solis: Histoc Epideon (A2) Sandy Cleved Matrix (S4) Immediation (S5) Bioch Histoc (A3) Sandy Rodox (S5) Very Shallow Dark Surface (F12) Bioch Histoc (A1) Dark Surface (S7) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) The hydric soil indicators have been updat Sandy Mucky Mineral (S1) Depleted Matrix (F3) The hydric soil indicators have been updat Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators Have been updat Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators Have been updat Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators Have been updat Sandy Mucky Mineral (S1) Depleted Dark Surface (F12) in the United States. Version 8.0. 2016. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators Have been updat Sandy Mucky Mineral (S1) Trans Mindicators Have been updat Sandy Mucky Mineral (S1) Draringap Platesten S(1)	·							·		
ype: C-Concentration, D-Deptetion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. *Location: PL-Pore Lining, M-Matrix. Tric Sul Indicators? Test Indicators of Mythic Solis: Inon-Manganese Masses (F12) Heistein (A1) Sandy Gloyed Matrix (S6) Uror Manganese Masses (F12) Back Histic (A3) Stringted Matrix (F6) Other (Explain in Remarks) Dark Surface (A1) Dark Surface (S7) Other (Explain in Remarks) Dark Matrix (F3) Learry Nucky Mineral (F1) Learry Nucky Mineral (F1) Com Muck (A10) Deptieded Matrix (F3) *The hydric soli indicators have been update comply with the <i>Field Indicators of Hydric</i> 5 or Mucky Mineral (S1) Sandy Mucky Mineral (S1) Deptieded Dark Surface (F7) and the United States, Version 8.0, 2016. Trictibre Layer (if observed): Type:		<u> </u>	·	· _						
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coated Sand Grains. *Location:: PL=Pore Lining, M=Matrix. Histos Califordia (A1) Sandy Gleyed Matrix (S4) Test Indicators of Hydric Solis: Histos Califordia (A2) Sandy Gleyed Matrix (S4) UrorN-Marganese Masses (F12) Black Histo (A2) Sandy Redox (S5) UrorN-Marganese Masses (F12) Stratiled Layers (A5) Dark Surface (S7) Other (Explain in Remarks) Stratiled Layers (A5) Loamy Mukry Mirel (F1) Depleted Batwork Mineral (F2) Depleted Selow Dark Surface (A11) Depleted Dark Surface (F6) *The hydric soil indicators have been updat Sandy Mucky Mineral (S3) Depleted Dark Surface (F7) comply with the Field Indicators (Hydric Soil Indicators ALV) Sandy Mucky Mineral (S3) Redox Dark Surface (F7) omply with the Field Indicators (Minimum of two requires the field Nucleators (Minimum of two requires the field Indicators (Minimum of two requires the field Nucleators (Minimum of two requires the field Nucleators (Minimum of two requires the field Indicators (Minimum of two requires the field Nucleators (Minimum						<u> </u>				
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grine. *1cocation: PL=Pore Lining, M=Matrix. ype: C=Concentration, D=Depletion, RM=Reduxed Matrix, (S4) Test Indicators of Hyphits Solits: Histics (A1) Sandy Redox (S5) Uory Shallow Dark Surface (F2) Black Histic, (A3) Singped Matrix, (S6) Other (Explain in Remarks) Phytropen Sulfide (A4) Dark Surface (S7) Other (Explain in Remarks) Depleted Below Dark Surface (A1) Depleted Matrix (F3) The hydric soil indicators have been updat Smattled Layers (A5) Loamy Glieged Matrix (F3) The hydric soil indicators have been updat Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators of Mydr. Similar Layers (If observed): Type: bepletion of the Surface (F7) comply with the Field Indicators of Mydr. Type:										
Type: Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PLectLing, M=Matrix. Test Indicators?:										
Cype: Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Graina. * Location: Test Indicators: dric Soil Indicators? Test Indicators of Hydric Soils: Test Indicators of Hydric Soils: Histics (A) Sandy Redox (S5) Cype: Coconstruction Very Shallow Dark Surface (F2) Histics (A) Sandy Redox (S5) Cype: Coconstruction Cype: Coconstruction Cype: Coconstruction Stratified Layers (A) Dark Surface (S1) Depleted Matrix (S6) Cype: Coconstruction Cype: Coconstruction Stratified Layers (A) Dark Surface (S1) Depleted Matrix (S1) Cype: Coconstruction Cype:										
drie Soll Indicators?: Test Indicators? Histosol (A1) Sandy Gleyed Matrix (S4) Iron-Manganese Masses (F12) Histo Epipedon (A2) Sandy Redox (S5) Very Shallow Dark Surface (F22) Black Histic (A3) Dark Surface (S7) Other (Explain in Remarks) Phytrogen Surface (A10) Loamy Wudky Mineral (F1) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) The hydric soil indicators have been updat Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) oromply with the Field Indicators of Hydric Som Mucky Peet or Peet (S3) Redox Depressions (F8) in the United States. Version 8.0. 2016. Strictive Layer (if observed): Type: Type: N Papet (inches): Hydric Soil Present? Yes	ype: C=Cor	ncentration, D=Depletion	, RM=Reduced M	latrix, CS=Covered or	r Coated Sa	nd Grains.	² Location	: PL=Pore Lining, N	∕I=Matrix.	
Histic Epipedon (A2) Sandy Gleyed Matrix (S4) Inor-Manganese Masses (F12) Histic Epipedon (A2) Sandy Gleyed Matrix (S6) Other (Explain in Remarks) Stratified Layers (A5) Loamy Mudxy Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Mudxy Mineral (F1) Depleted Bork Surface (F7) Sondy Mudxy Mineral (S1) Thick Dark Surface (A12) Redox Dark Surface (F7) sondy Mudxy Mineral (S1) Depleted Dark Surface (F7) songy with the Field Indicators of Hydri Strictive Layer (if observed): Type:	dric Soil Inc	dicators ³ :					Test Ir	ndicators of Hydric	Soils:	
Histic Epipedon (A2) Sandy Redox (S5) Very Shallow Dark Surface (F2) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Dark Surface (S7) Other (Explain in Remarks) Stratified Layers (A5) Leamy Mudxy Mineral (F1) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) *The hydric soil indicators have been updat S mm Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators of Hydric S of Mucky Peat or Peat (S3) Redox Depressions (F8) in the United States, Version 8.0, 2016. strictive Layer (if observed): Type:	Histosol ((A1)		Sandy Gleyed N	Matrix (S4)			Iron-Manga	nese Masses (F12)	
Black Halis (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Dark Surface (S7) Other (Explain in Remarks) Stratified Layers (A5) Learny Mucky Mineral (F1) Depleted Bow Dark Surface (A11) Depleted Matrix (F2) Depleted Bow Dark Surface (A12) Redox Dark Surface (F6) ³ The hydric soli indicators have been updat S andy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators of Hydric S on Nucky Nearo P Peat (S3) Strictice Layer (If observed): Trype: Depleted Dark Surface (F7) comply with the Field Indicators of Hydric Soli Present? Yes	Histic Epi	ipedon (A2)		Sandy Redox (S5)			Very Shallo	w Dark Surface (F22	2)
Hydrogen Sulfide (A4)	Black His	stic (A3)		Stripped Matrix	(S6)			Other (Expl	ain in Remarks)	
Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depieted Below Dark Surface (A12) Redox Dark Surface (F6) ^a The hydric soil indicators have been updat Sandy Mucky Mineral (S1) Depieted Dark Surface (F6) ^a The hydric soil indicators have been updat Sandy Mucky Mineral (S1) Depieted Dark Surface (F7) comply with the Field Indicators of Hydric strictive Layer (if observed): Type:	Hydroger	n Sulfide (A4)		Dark Surface (S	S7)					
Communication Construction Communication Communic	Stratified	Layers (A5)		Loamy Mucky N	Mineral (F1)					
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Below Dark Surface (F6) The hydric soil indicators have been updat Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators of Hydric Soil Indicators (F8) Strictive Layer (If observed): Type:	2 cm Muc	ck (A10)		Loamy Gleyed	Matrix (F2)					
The tydric Surface (F6) *The tydric soil indicators have been updat comply with the Field Indicators of Hydric S cm Mucky Pleat or Peat (S3) Depleted Dark Surface (F7) *omply with the Field Indicators of Hydric Soil Present (S3) strictive Layer (if observed): Type: in the United States, Version 8.0, 2016. 's cm Mucky Pleat or Peat (S3) Hydric Soil Present? Yes N Depth (inches): Hydric Soil Present? Yes N marks: */***********************************	Depleted	Below Dark Surface (A1	1)	Depleted Matrix	k (F3)					
Sandy Mucky Mineral (S1)Depleted Dark Surface (F7) comply with the Field Indicators of Hydri in the United States, Version 8.0, 2016. strictive Layer (if observed):Type:Depth (inches):M Hydric Soil Present? YesN marks: YDROLOGY ettand Hydrology Indicators: imary Indicators (minimum of one is required: check all that apply)Secondary Indicators (minimum of two required: and Nature Faula (B13)Surface Soil Cracks (B6)N Surface Water (A1)M Water-Stained Leaves (B9)Surface Soil Cracks (B6)N Surface Water (A1)M Water-Stained Leaves (B9)Surface Soil Cracks (B6)N Surface Water (A1)M Water-Stained Leaves (B1)N Surface Soil Cracks (B6)N Surface Soil Crack	Thick Dar	rk Surface (A12)		Redox Dark Su	rface (F6)			³ The hydric soil in	dicators have been u	updated to
	Sandy Mi	ucky Mineral (S1)		Depleted Dark	Surface (F7)		comply with the	e Field Indicators of	Hydric Soils
strictive Layer (if observed): Type:	5 cm Muc	cky Peat or Peat (S3)		Redox Depress	sions (F8)			in the United S	States, Version 8.0, 2	2016.
Type:	estrictive La	ver (if observed):								
Depth (inches): Hydric Soil Present? Yes N marks:	Type:									
ctps://ctms/prime response parks: response ctps://ctms/prime response response response	Depth (inc	ches):					Hydric S	oil Present?	Yes	No
Imary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (B7) Drift Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Innudation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No Aturation Present? Yes No Depth (inches): N/A Wetland Hydrology Present? Yes No Meddes capillary fringe) seconder Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: marks:	IDROLO									
Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (B7) Drift Deposits (B5) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Inon Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Wetland Hydrology Present? Yes	atland Hydr	ology Indicators:								
High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (B7) Drift Deposits (B5) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Wetland Hydrology Present? Yes	etland Hydro	ology Indicators: tors (minimum of one is)	required: check a	ll that apply)				Secondary Indica	tors (minimum of two	o required)
Important outbole (ndb) Important outbole (ndb) Important outbole (ndb) Important outbole (ndb) Saturation (A3) Important outbole (ndb) Important outbole (ndb) Important outbole (ndb) Water Marks (B1) Important outbole (ndb) Important outbole (ndb) Important outbole (ndb) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (S0) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Wetland Hydrology Present? Yes eld Observations: N/A Depth (inches): N/A Wetland Hydrology Present? Yes N cludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: marks:	etland Hydro rimary Indicat Surface V	ology Indicators: tors (minimum of one is i Water (A1)	required: check a	ll that apply) Water-Stained	Leaves (B9)		Secondary Indica	tors (minimum of two	o required)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery in Dirit Deposits (B3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes eld Observations: Ves No X Depth (inches): N/A vaturation Present? Yes No X Depth (inches): N/A vaturation Present? Yes No X Depth (inches): N/A vaturation Present? Yes No X Depth (inches): N/A escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: Matilabile	etland Hydro rimary Indica Surface V	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2)	required: check a	II that apply) Water-Stained	Leaves (B9))		Secondary Indica Surface Soi	tors (minimum of two I Cracks (B6)	o required)
Austimum (efr) Ovidized Rhizospheres on Living Roots (C3) Saturation (C4) Sediment Deposits (B2) Ovidized Rhizospheres on Living Roots (C3) Saturation (C4) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Vetand Hydrology Present? Yes eld Observations: N/A Depth (inches): N/A Vetand Hydrology Present? Yes N aturation Present? Yes No X Depth (inches): N/A Vetand Hydrology Present? Yes N mcludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:	etland Hydro rimary Indica Surface V High Wat	ology Indicators: tors (minimum of one is i Nater (A1) ter Table (A2)	required: check a	II that apply) Water-Stained Aquatic Fauna	Leaves (B9 (B13) lants (B14))		Secondary Indica Surface Soi Drainage P	tors (minimum of two I Cracks (B6) atterns (B10)	o required)
Overlag	etland Hydro imary Indica Surface V High Wat Saturation Water Ma	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1)	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfi	Leaves (B9 (B13) lants (B14))		Secondary Indica Surface Soi Drainage P Dry-Seasor	tors (minimum of two I Cracks (B6) atterns (B10) 1 Water Table (C2) rrows (C8)	o required)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Gauge or Well Data (D9) Gauge or Well Data (D9) Other (Explain in Remarks) eld Observations: Ves NoX Depth (inches): N/A Depth (inches): N/A daturation Present? Yes NoX Depth (inches): N/A daturation Present? Yes NoX Depth (inches): N/A daturation Present? Yes NoX Depth (inches): N/A daturation Present? Yes No Depth (inches): NA Depth (inches): NA daturation Present? Yes No Depth (inches): NA Depth (inches): NA daturation Present? Yes No Depth (inches): NA NA Depth (inches): NA NA NA NA NA	etland Hydro imary Indica Surface V High Wat Saturation Water Ma Sediment	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic PI Hydrogen Sulfic	Leaves (B9 (B13) lants (B14) de Odor (C1))		Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu	tors (minimum of two I Cracks (B6) atterns (B10) N Water Table (C2) rrows (C8) /isible on Aerial Imag	o required)
Argan Mat of Crust (B4) Recent find Reduction in Finited Solis (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) other (Explain in Remarks) Other (Explain in Remarks) eld Observations: No X Depth (inches): N/A ater Table Present? Yes No X Depth (inches): N/A aturation Present? Yes No X Depth (inches): N/A acturation Present? Yes No X Depth (inches): N/A acturation Present? Yes No X Depth (inches): N/A acturation Present? Yes No X Depth (inches): N/A escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment	ology Indicators: tors (minimum of one is not Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfic Oxidized Rhizo	Leaves (B9) (B13) lants (B14) de Odor (C1 spheres on)) Living Roots	; (C3)	Secondary Indica Surface Soi Drainage P Dry-Season Crayfish Bu Saturation	tors (minimum of two I Cracks (B6) atterns (B10) I Water Table (C2) Irrows (C8) /isible on Aerial Imag Stressed Plants (D1)	o required) gery (C9)
Internation Deposits (B3) Internation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) eld Observations: No X Depth (inches): N/A ater Table Present? Yes No X Depth (inches): N/A aturation Present? Yes No X Depth (inches): N/A aturation Present? Yes No X Depth (inches): N/A acturation Present?	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depp	ology Indicators: tors (minimum of one is in Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t oc Cruct (B4)	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfic Oxidized Rhizo Presence of Re	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on educed Iron) Living Roots (C4)	; (C3)	Secondary Indica Surface Soi Drainage P Dry-Season Crayfish Bu Saturation V Stunted or S	tors (minimum of two I Cracks (B6) atterns (B10) o Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1)	o required) gery (C9)
Indudation visible on Aerial imagery (Br) Gadge of Wein Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) eld Observations: Indudation Visible on Aerial imagery (Br) urface Water Present? Yes No X Depth (inches): N/A aturation Present? Yes No X Depth (inches): N/A aturation Present? Yes No X Depth (inches): N/A wetland Hydrology Present? Yes No X Depth (inches): N/A wetland Hydrology Present? Yes No X Depth (inches): N/A wetland Hydrology Present? Yes No X nocludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: emarks:	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on educed Iron duction in T) Living Roots (C4) illed Soils (C	; (C3) ;6)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic	tors (minimum of two I Cracks (B6) atterns (B10) I Water Table (C2) Irrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	o required) gery (C9)
Sparsely vegetated concave surface (BS) Concernent Concave surface (BS) Concernent Con	etland Hydri imary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo Algal Mat Iron Depo	ology Indicators: tors (minimum of one is in Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) posits (B5) posits (B5)	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic PI Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on educed Iron duction in T ace (C7)) Living Roots (C4) illed Soils (C	5 (C3) 56)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) I Water Table (C2) Irrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	o required) gery (C9)
eld Observations: urface Water Present? Yes No X Depth (inches): N/A ater Table Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Yes No aturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Yes N icludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on educed Iron duction in T face (C7) Data (D9)) Living Roots (C4) illed Soils (C	; (C3) ;6)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	gery (C9)
urface Water Present? Yes No X Depth (inches): N/A vater Table Present? Yes No X Depth (inches): N/A aturation Present? Yes No X Depth (inches): N/A mcludes capillary fringe) No X Depth (inches): N/A Wetland Hydrology Present? Yes N escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: Pemarks:	etland Hydri rimary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic PI Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on educed Iron duction in T ace (C7) Data (D9) in Remarks) Living Roots (C4) illed Soils (C	; (C3) ;6)	Secondary Indica Surface Soi Drainage P Dry-Season Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	gery (C9)
/ater Table Present? Yes No X Depth (inches): N/A aturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Yes No ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Metland Hydrology Present? Yes N	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions:	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on educed Iron duction in T duction in T face (C7) Data (D9) in Remarks) Living Roots (C4) illed Soils (C	; (C3) ;6)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) o Water Table (C2) rrrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	gery (C9)
Aturation Present? YesNo _X Depth (inches):N/A Wetland Hydrology Present? YesN Includes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Metland Hydrology Present? YesN emarks: Emarks: Emarks: Metland Hydrology Present? YesN	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Eld Observar	ology Indicators: tors (minimum of one is in Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: Present? Ye	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i Depth (inches):	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on educed Iron duction in T duction in T face (C7) Data (D9) in Remarks) Living Roots (C4) illed Soils (C	; (C3) ;6)	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) o Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	gery (C9)
ecludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depu Algal Mat Iron Depu Inundatio Sparsely eld Observar ater Table P	ology Indicators: tors (minimum of one is in Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: r Present? Ye	required: check a 	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i Depth (inches): Depth (inches):	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on educed Iron duction in T ace (C7) Data (D9) in Remarks N/A N/A) Living Roots (C4) illed Soils (C	: (C3) :6)	Secondary Indica Surface Soi Drainage Pa Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) I Water Table (C2) Irrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	gery (C9)
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depi Algal Mat Iron Depo Inundatio Sparsely eld Observat urface Water ater Table P aturation Pres	ology Indicators: tors (minimum of one is in Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: r Present? Ye sent? Ye	required: check a ery (B7) face (B8) esNoX esNoX esNoX	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i Depth (inches): Depth (inches):	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on duction in T duction in T duction in T ace (C7) Data (D9) in Remarks <u>N/A</u> <u>N/A</u>) Living Roots (C4) illed Soils (C) Wetland	; (C3) ;6) Hydrolog	Secondary Indica Surface Soi Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5) Yes	gery (C9)
emarks:	etland Hydri imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depi Algal Mat Iron Depo Inundatio Sparsely eld Observar dater Table P aturation Pre-	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: r Present? Ye isent? Ye lary fringe)	required: check a ery (B7) face (B8) es <u>No X</u> es <u>No X</u>	II that apply) Water-Stained Aquatic Fauna True Aquatic PI Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i Depth (inches): Depth (inches):	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on duction in T ace (C7) Data (D9) in Remarks <u>N/A</u> <u>N/A</u> <u>N/A</u>) Living Roots (C4) illed Soils (C) Wetland	; (C3) ;6) Hydrolog	Secondary Indica Surface Soi Drainage P. Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5) Yes	gery (C9)
emarks:	etland Hydri rimary Indica Surface \ High Wat Saturation Water Ma Sediment Drift Depi Algal Mat Iron Depo Inundatio Sparsely eld Observar urface Water /ater Table P aturation Pre- actudes capill escribe Reco	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Image Vegetated Concave Surf tions: Present? Ye isent? Ye lary fringe) orded Data (stream gaug	required: check a ery (B7) face (B8) es <u>No X</u> es <u>No X</u> e, monitoring wel	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i Depth (inches): Depth (inches): Depth (inches):	Leaves (B9) (B13) lants (B14) de Odor (C1 spheres on duction in T ace (C7) Data (D9) in Remarks N/A N/A N/A N/A Dus inspectio) Living Roots (C4) illed Soils (C) Wetland	: (C3) :6) Hydrolog	Secondary Indica Surface Soi Drainage P. Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5) Yes	gery (C9)
emarks:	etland Hydri rimary Indica Surface \ High Wat Saturation Water Ma Sediment Drift Depi Algal Mat Iron Depo Inundatio Sparsely eld Observat vurface Water /ater Table P aturation Pres ncludes capill	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: r Present? Ye resent? Ye lary fringe) orded Data (stream gaug	required: check a ery (B7) face (B8) es No X es No X es No X es No X	II that apply) Water-Stained Aquatic Fauna True Aquatic PI Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i Depth (inches): Depth (inches): Depth (inches):	Leaves (B9) (B13) lants (B14) de Odor (C1 spheres on duction in T ace (C7) Data (D9) in Remarks) <u>N/A</u> <u>N/A</u> <u>N/A</u> <u>N/A</u> <u>N/A</u>) Living Roots (C4) illed Soils (C) Wetland ons), if availa	; (C3) ;6) Hydrolog able:	Secondary Indica Surface Soi Drainage P Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5) Yes	gery (C9)
	etland Hydri imary Indica Surface \ High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely eld Observat urface Water Vater Table P aturation Pre- acturation Pre- acturation Pre-	ology Indicators: tors (minimum of one is i Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: r Present? Ye sent? Ye lary fringe) orded Data (stream gaug	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i Depth (inches): Depth (inches): Depth (inches):	Leaves (B9) (B13) lants (B14) de Odor (C1 spheres on duction in T duction duction duction duction N/A Duction duction duction N/A) Living Roots (C4) illed Soils (C) Wetland	; (C3) ;6) Hydrolog able:	Secondary Indica Surface Soi Drainage P. Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5) Yes	gery (C9)
	etland Hydri rimary Indica Surface \ High Wat Saturatio Water Ma Sediment Drift Depu Algal Mat Iron Depo Inundatio Sparsely eld Observat urface Water 'ater Table P aturation Pres cludes capill escribe Reco	ology Indicators: tors (minimum of one is in Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: r Present? Yea bresent? Yea lary fringe) orded Data (stream gaug	required: check a	II that apply) Water-Stained Aquatic Fauna True Aquatic Pl Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Gauge or Well Other (Explain i Depth (inches): Depth (inches): Depth (inches):	Leaves (B9 (B13) lants (B14) de Odor (C1 spheres on duction in T duction in T duction in T duction in T ace (C7) Data (D9) in Remarks N/A N/A N/A Dus inspection) Living Roots (C4) illed Soils (C) Wetland ons), if availa	; (C3) ;6) Hydrolog	Secondary Indica Surface Soi Drainage P. Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphic FAC-Neutra	tors (minimum of two I Cracks (B6) atterns (B10) o Water Table (C2) rrrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5) Yes	gery (C9)

Project/Site:	Northeast Corner of County Line & Arlington			City/County:	Indianapolis/Ma	arion	Sampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn			State:	IN	Sampling Point:	dp13
Investigator(s):	Ben Hess & Paige Eichelberger			5	Section, Townshi	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):				Loca	I relief (concave, convex, none):	none
Slope (%):	1% Lat:	39.64082918		Long:	-86	6.05468009	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loam, 0 to 1 percent slopes (ThrA)					NWI class	ification: 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	significantly dist	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	N, Soil N	, or Hydrology N	naturally probler	natic?	(If needed,	, explain any answers in Remark	s.)
SUMMARY OF	FINDINGS Attach site map showing sa	ampling point locations, tr	ransects, imp	ortant featur	es, etc.		
Hydrophytic Ve	getation Present?	Yes <u>x</u> N	°	Is the	Sampled Ar	ea	No.
Wetland Hydrol	ogy Present?	Yes X N	0	within	a wetland?	res	
Remarks:		<u> </u>					
VEGETATION	Use scientific names of plants.		Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:	
1.							
2.						Number of Dominant Species	
3.						That Are OBL, FACW, or FAC	: <u> </u>
4							
5				Tatal Causa		Total Number of Dominant	
				= Total Cover		Species Across All Strata:	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant Species	
1.	· · · ·					That Are OBL, FACW, or FAC	: 100% (A/B)
2.							
3.							
4						Prevalence Index worksheet	
5.							
				= Total Cover		Total % Cover of:	Multiply by:
Herb Stratum (Plot	size: 5' radius)					OBL species 5%	x1 = 0.05
1. Packera glabel	la		15%	No	FACW	FACW species 95%	$x_{2} = 1.90$
2. Alopecurus car	olinianus		60%	Yes	FACW	FAC species 10%	x3 = 0.30
3. Hordeum pusill	lum		10%	No	FAC	FACU species	x4 =
4. Veronica pereg	rrina		15%	No	FACW	UPL species	x5 =
5. Ranunculus sc	eleratus		5%	No	OBL	Column Totals: 110%	(A) <u>2.25</u> (B)
6. <u>Solidago gigan</u>	tea		5%	No	FACW		
7						Prevalence Index =	B/A = 2.05
9							
10.						Hydrophytic Vegetation Indi	cators:
11.							
12.						X 1-Rapid Test for Hydr	ophytic Vegetation
13.						X 2-Dominance Test is	>50%
14.						X 3-Prevalence Index is	5≤3.0'
15.						4-Morphological Adap	otations' (Provide supporting
10				·······		data in Remarks or o Problematic Hydroph	m a separate sneet) otic Vegetation ¹ (Explain)
18							
19.						¹ Indicators of hydric soil and w	etland hydrology must
20.						be present, unless disturbed of	r problematic.
			110%	= Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic	
1				·······		vegetation Procent?	X No
<u>۲. </u>				- Total Covor		riesent? Yes	<u>^ NO</u>
Remarks: (Include	photo numbers here or on a separate sheet.)					<u>↓</u>	
	. ,						

Danth		eded to document the in	Idicator or co		ibsence of	indicators.	
Depth N		Rei	dox Features	T . m a ¹	12		Demeria
(inches) Color (mo	DIST) %	Color (moist)	%	Туре	Loc-	lexture	Remarks
0-3" 10YR 2	/1 100					Silt Loam	
3-16" 10YR 4	/1 98	10YR 5/6	2	C	М	Silt Loam	
¹ Type: C=Concentration, D	=Depletion, RM=Redu	uced Matrix, CS=Covered	or Coated S	and Grains.	² Locatio	n: PL=Pore Lining, I	M=Matrix.
Hydric Soil Indicators ³ :					Test	Indicators of Hydric	: Soils:
Histosol (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic Epipedon (A2)		Sandy Redo	x (S5)			Very Shallo	w Dark Surface (F22)
Black Histic (A3)		Stripped Mar	trix (S6)			Other (Expl	ain in Remarks)
Hydrogen Sulfide (A4)		Dark Surface	e (S7)				
Stratified Layers (A5)		Loamy Muck	xy Mineral (F1)			
2 cm Muck (A10)		Loamy Gleye	ed Matrix (F2)				
X Depleted Below Dark S	Surface (A11)	X Depleted Ma	atrix (F3)				
Thick Dark Surface (A	12)	Redox Dark	Surface (F6)			³ The hydric soil ir	dicators have been updated to
Sandy Mucky Mineral ((S1)	Depleted Da	rk Surface (F	7)		comply with th	e Field Indicators of Hydric Soils
5 cm Mucky Peat or Pe	eat (S3)	Redox Depre	essions (F8)			in the United S	States, Version 8.0, 2016.
Restrictive Layer (if observ	/ed):						
Туре:		_					
Depth (inches):		_			Hydric	Soil Present?	Yes X No
HYDROLOGY Wetland Hydrology Indicat	ors:						
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun	ors: n of one is required: cl	heck all that apply)				Secondary Indica	tors (minimum of two required)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun Surface Water (A1)	ors: n of one is required: cl	heck all that apply) Water-Stain	ed Leaves (B	9)		Secondary Indica Surface So	tors (minimum of two required) il Cracks (B6)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun Surface Water (A1) High Water Table (A2)	ors: n of one is required: cl	heck all that apply) Water-Stain Aquatic Fau	ed Leaves (B	9)		Secondary Indica	tors (minimum of two required) il Cracks (B6) atterns (B10)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun Surface Water (A1) High Water Table (A2) X Saturation (A3)	ors: n of one is required: cl	heck all that apply) Water-Stain Aquatic Fau True Aquatic	ed Leaves (B na (B13) 5 Plants (B14)	9)		Secondary Indica Surface So Drainage P Dry-Seasor	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1)	r ors: n of one is required: cl	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C	9)		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2	rors: n of one is required: cl	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh	ed Leaves (B na (B13) : Plants (B14) ulfide Odor (C izospheres or	9) :1) h Living Root		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ors: n of one is required: cl 2)	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of	ed Leaves (B na (B13) : Plants (B14) ulfide Odor (C izospheres or Reduced Iror	9) :1) n Living Roof	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ors: n of one is required: cl 2)	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in	9) 1) h Living Roof h (C4) Tilled Soils (s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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)	n of one is required: cl	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in furface (C7)	9) 1) n Living Roof n (C4) Tilled Soils (s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A	o rs: n of one is required: cl 2) Nerial Imagery (B7)	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	ed Leaves (B na (B13) Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in furface (C7) ell Data (D9)	9) n Living Roof n (C4) Tilled Soils (s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co	r ors: n of one is required: cl 2) verial Imagery (B7) oncave Surface (B8)	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in auflace (C7) ell Data (D9) in in Remarka	9) 1 Living Roof n (C4) Tilled Soils (s)	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co Field Observations:	o rs: n of one is required: cl 2) verial Imagery (B7) oncave Surface (B8)	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in furface (C7) ell Data (D9) in in Remark	9) n Living Root n (C4) Tilled Soils (s)	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Cc Field Observations: Surface Water Present?	ors: n of one is required: cl 2) verial Imagery (B7) oncave Surface (B8) Yes No	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduced Iror Reduction in furface (C7) ell Data (D9) in in Remark	9) n Living Roof n (C4) Tilled Soils (s)	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present?	ors: n of one is required: cl 2) verial Imagery (B7) oncave Surface (B8) Yes No Yes No	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in curface (C7) ell Data (D9) in in Remarka): N/A	9) h Living Root h (C4) Tilled Soils (s)	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Cc Field Observations: Surface Water Present? Water Table Present? Saturation Present?	2) verial Imagery (B7) verial Imagery (B7) oncave Surface (B8) Yes No Yes No Yes X No	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inches Depth (inches	ed Leaves (B na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in furface (C7) ell Data (D9) in in Remarks): N/A .): N/A	9) h Living Root h (C4) Tilled Soils (s)	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	2) Aerial Imagery (B7) poncave Surface (B8) Yes No Yes No Yes No	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Su Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inchess Depth (inchess	ed Leaves (B na (B13) > Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Reduction in durface (C7) ell Data (D9) in in Remarka): N/A .): N/A	9) 1 Living Roof n (C4) Tilled Soils (s) Wetlan	s (C3) C6) d Hydrolo	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes <u>X</u> No
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	n of one is required: cl 2) verial Imagery (B7) oncave Surface (B8) Yes No Yes No Yes X No ream gauge, monitori	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchess Depth (inchess Depth (inchess Depth (inchess	ed Leaves (B na (B13) :: Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in : eurface (C7) ell Data (D9) in in Remarka :): N/A :): N/A :): N/A :): Surface	9) 1) 1 Living Roof 1 (C4) Tilled Soils (s) Wetlan tions), if avai	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum 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 A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	rors: n of one is required: cl 2) verial Imagery (B7) oncave Surface (B8) Yes No Yes No Yes X No Yes X No	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchess Depth (inchess Depth (inchess Depth (inchess	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in curface (C7) ell Data (D9) in in Remark: c): N/A .): N/A .): N/A .): Surface	9) 1) 1 Living Roof 1 (C4) Tilled Soils (s) Wetlan tions), if avai	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	erial Imagery (B7) verial Imagery (B7) oncave Surface (B8) Yes No Yes No Yes X No	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Su Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla Depth (inchess Depth (inchess Depth (inchess	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in curface (C7) ell Data (D9) in in Remarks): N/A): N/A): N/A curface	9) 1) h Living Root n (C4) Tilled Soils (s) Wetlan tions), if avai	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes <u>X</u> No
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Pre	erial Imagery (B7) verial Ima	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inchess Depth (inchess Depth (inchess Depth (inchess Depth (inchess	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in curface (C7) ell Data (D9) in in Remark c): N/A .): N/A .): N/A .): Surface	9) 1) 1 Living Roof n (C4) Tilled Soils (s) Wetlan tions), if avai	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes <u>X</u> No
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (st Remarks:	n of one is required: cl 2) Aerial Imagery (B7) oncave Surface (B8) Yes No Yes No Yes No Yes No Yes No	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inches Depth (inches Depth (inches	ed Leaves (B na (B13) : Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in curface (C7) ell Data (D9) in in Remarka): N/A .): N/A .): N/A .): Surface	9) 1) 1 Living Roof 1 (C4) Tilled Soils (s) Wetlan tions), if avai	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes X No
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun 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 A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present? Mater Table Present? Saturation Present? Saturation Present? Mater Table Present? Saturation Present? Saturation Present? Mater Table Present? Saturation Present? Saturation Present? Mater Table Present? Saturation	n of one is required: cl 2) verial Imagery (B7) oncave Surface (B8) Yes No Yes No Yes X No ream gauge, monitori	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inches Depth (inches Depth (inches	ed Leaves (B4 na (B13) 2 Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in curface (C7) ell Data (D9) in in Remarka): N/A): N/A): N/A): Surface	9) 1) 1 Living Roof 1 (C4) Tilled Soils (s) Wetlan tions), if avai	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? includes capillary fringe) Describe Recorded Data (str Remarks:	n of one is required: cl 2) Aerial Imagery (B7) oncave Surface (B8) Yes No Yes No Yes X No ream gauge, monitori	heck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla X Depth (inchess Depth (inchess Depth (inchess Depth (inchess	ed Leaves (B na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in curface (C7) ell Data (D9) in in Remark:): N/A .): N/A .): N/A .): Surface	9) 1) 1 Living Roof n (C4) Tilled Soils (s) Wetlan tions), if avai	s (C3) C6) d Hydrolo lable:	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 X Geomorphi X FAC-Neutra	tors (minimum of two required) il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5) Yes <u>X</u> No

Project/Site:	Northeast Corner of County Line & Arlington		City/County	· Indianapolis/Ma	arion	Sampling Date: 5/12/2022
Applicant/Owner:			State		Sampling Point:	dp14
Investigator(c):	Ren Hess & Daige Eichelherger			Section Townshi	in Range: 922 T1/N D	
Investigator(s):			;	Jection, TownShi	p, nange. <u>323 114N R4</u>	
Landform (nillslope			1	Loca	relier (concave, convex	t, none): none
Slope (%):	1% Lat: 39.64150265		Long:	-86	3.05451685	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Treaty silty clay loam, 0 to 1 percent slopes (ThrA)				N	WI classification: none
Are climatic / hydro	logic conditions on the site typical for this time of year?		Yes	X No	(If no, explain in R	Remarks.)
Are Vegetation	N , Soil N , or Hydrology N	significantly dist	urbed?	Are "Norm	al Circumstances" prese	ent? Yes X No
Are Vegetation	N , Soil N , or Hydrology N	naturally probler	matic?	(If needed,	, explain any answers in	Remarks.)
SUMMARY OF	FINDINGS Attach site map showing sampling point locations, to	ransects. imp	ortant featur	es. etc.		
Hydrophytic Ve	retation Present? Ves x N		ls the	Sampled Ar	02	-
Hydric Soil Pres	sent? Yes N		withir	a Wetland?	Y	res No x
Wetland Hydrol	logy Present? Yes N			ra monana.	•	
		- <u> </u>				
Remarks:						
VEGETATION	Use scientific names of plants.					
		Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)	% Cover	Species?	Status	Dominance Test wor	rksheet:
1						
2.					Number of Dominant S	Species
3.					That Are OBL, FACW	, or FAC: 2 (A)
4.						
5.					Total Number of Domi	inant
			= Total Cover		Species Across All Str	rata: 2 (B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)				Percent of Dominant §	Species
1					That Are OBL FACW	or FAC: 100% (A/B)
2					indivito obe, i nom	
2						
3						distant.
4					Prevalence Index wo	rksneet:
5.						
			= Total Cover		Total % Cove	r of: Multiply by:
					That Are OBL, FACW,	or FAC: A/B
Herb Stratum (Plot	t size: 5' radius)				OBL species	x1 =
1. Potentilla norve	egica	55%	Yes	FAC	FACW species	10% x2 = 0.20
2. Rumex crispus		20%	Yes	FAC	FAC species	90% x3 = 2.70
3. Juncus tenuis		5%	No	FAC	FACU species	x4 =
4. Geranium caro	linianum	10%	No	UPL	UPL species	10% x5 = 0.50
5. Hordeum pusil	lum	10%	No	FAC	Column Totals:	110% (A) 3.40 (B)
6. Liatris lancifolia	1	5%	No	FACW		
7. Veronica pereg	yrina	5%	No	FACW	Prevalence	Index = B/A = 3.09
8.						
9.						
10.					Hydrophytic Vegetat	tion Indicators:
11						
12					1-Rapid Test	for Hydrophytic Vegetation
12.						
13.					2-Dominance	1 Test is >50%
14.					3-Prevalence	
15					4-iviorphologi	cal Adaptations (Provide supporting
16					data in Rema	arks or on a separate sheet)
17					Problematic	Hydrophytic Vegetation' (Explain)
18.						
19.					¹ Indicators of hydric so	oil and wetland hydrology must
20.					be present, unless dis	sturbed or problematic.
		110%	= Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius)				Hydrophytic	
1.					Vegetation	
2.					Present?	Yes X No
-·			= Total Cover			<u> </u>
Domosko: //=	nhate numbers here or an a constate sheet \				4	
include	איטנט וועווטביז וובוב טו טוו מ שבימומנב שוובבו.)					

Profile Desc	ription: (Describe to t	he depth needed	to document the in	ndicator or co	onfirm the a	bsence of	indicators.)		
Deptn (in share)	Matrix		Re	dox Features	T. m.a.1	12	Tautum	Dee	
(inches)	Color (moist)	%	Color (moist)	%	Туре	LOC	l'exture	Ren	arks
0-16"	10YR 3/1	100					Silt Loam		
		ion DM Doducod	Matrix CS Cavara	d or Cootod S		² Leastion		1 Motrix	
	ndicators ³ :	ion, Rivi=Reduced	Matrix, CS=Covered	u or Coaled Sa	and Grains.		dicators of Hydric		
Histoso			Sandy Glave	ed Matrix (SA)		10001	Iron-Manga	Desa Massas (F12)	
Histic F	Finedon (A2)		Sandy Bed	v (S5)			Very Shallor	N Dark Surface (F)	221
Black E	listic (A3)		Stripped Ma	(00)			Other (Evol	ain in Romarke)	-2)
Black I	on Sulfido (ΛA)		Outped Ma	(30) (S7)				an in itemarks)	
Tryurug	ell Sullide (A4)		Loamy Much	ky Minoral (E1	`				
	uck (A10))				
	NUCK (AIU)	(11)	Loamy Gley	eu mairix (F2)					
	o Delow Dark Surface ()ark Surface (A12)	<u>, , , , , , , , , , , , , , , , , , , </u>		Surface (EG)			³ The hydric coil in	dicators have here	undated to
FIICK L	Mucky Mineral (81)			oundee (FO)	7)			Field Indicators	f Hydric Soile
Sanuy	Mucky Mineral (ST)		Depieted Da		()		in the United S		
5 CHI M	lucky Pear of Pear (53)			essions (Fo)			In the Onlined S		2016.
Restrictive L	ayer (if observed):								
Type:									
Depth (i	nches):					Hydric S	oil Present?	Yes	NoX
	OGY								
Primary India	rators (minimum of one	is required: check	all that apply)				Secondary Indicat	ors (minimum of ty	vo required)
Surface	Water (A1)	is required. check	Water-Stain	ed Leaves (B9	3)		Surface Soi	Cracks (B6)	lo required)
High W	$a_{\rm r}$		Aquatic Fau	ina (B13)	,		Drainage Br	attorns (B10)	
Saturat	ion (Δ 3)			c Plants (B14)			Drunager a	Water Table (C2)	
Water I	Marks (B1)		Hydrogen S	ulfide Odor (C	1)		Cravfish Bu	$\frac{1}{10000000000000000000000000000000000$	
Sedime	ent Deposits (B2)			uinde edel (e	Living Root	s (C3)	Saturation \	(isible on Aerial Im	agery (C9)
Drift De	enosits (B3)		Presence of	Reduced Iron	(C4)	3 (00)	Stunted or S	Stressed Plants (D	
	lat or Crust (B4)		Recent Iron	Reduction in ⁻	Filled Soils ((<u>.</u> 6)	Geomorphic	Position (D2)	1
Iron De	(D_{+})		Thin Muck S	Surface (C7)		50)	EAC-Neutra	Test (D5)	
	tion Visible on Aerial Im	agory (B7)	Gauge or W	(oll Data (D9)				1001 (20)	
Sparso	IV Vegetated Concave S	Surface (B8)	Other (Evol	pin in Pomarka	•)				
Sparse	ly vegetated Concave 3	Sunace (BO)			»)				
Field Observ	vations:								
Surface Wat	er Present?	Yes No X	Depth (inches	s): <u>N/A</u>					
Water Table	Present?	Yes No X	Depth (inches	s): <u>N/A</u>					
Saturation P	resent?	Yes No X	Depth (inches	s): <u>N/A</u>	Wetland	d Hydrolog	y Present?	Yes	NoX
(includes cap	oillary fringe)								
Describe Re	corded Data (stream ga	uge, monitoring w	ell, aerial photos, pr	evious inspect	ions), if avai	able:			
Domestics									
Remarks:									

Project/Site:	Northeast Corner of County Line & Arlington		City/County:	Indianapolis/Ma	arion Sampling Date: 5/12/2022
Applicant/Owner:	Kimley Horn		State:	IN	Sampling Point: dp15
Investigator(s):	Ben Hess & Paige Eichelberger		5	Section, Townsh	ip, Range: S23 T14N R4E
Landform (hillslope	, terrace, etc.):			Loca	Il relief (concave, convex, none): none
Slope (%):	4% Lat: 39.64205393		Long:	-86	3.06006061 Datum: NAD83 UTM16N
Soil Map Unit Name	e: Miami silt loam-Urban land complex, 2 to 6 percent slopes, eroded (YmsB2)				NWI classification: 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 significantly distu	irbed?	Are "Norm	al Circumstances" present? Yes X No
Are Vegetation	N , Soil N , or Hydrology	N naturally problem	natic?	(If needed	, explain any answers in Remarks.)
SUMMARY OF	FINDINGS Attach site map showing sampling point located	ions, transects, imp	ortant featur	es, etc.	
Hydrophytic Veg	getation Present? Yes	No <u>x</u>	Is the	Sampled Ar	ea
Hydric Soil Pres	sent? Yes	No <u>x</u>	within	a Wetland?	Yes No <u></u>
welland Hydrol	ogy Present? Fes				
Remarks:					
VEGETATION	Use scientific names of plants.				
		Absolute	Dominant	Indicator	
Tree Stratum (Plot	size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
1					Number of Dominant Coopies
2					That Are OBL_EACW(or EAC; 1 (A)
4		·			
5.		·			Total Number of Dominant
			= Total Cover		Species Across All Strata: 3 (B)
					()
Sapling/Shrub Strat	tum (Plot size: 15' radius)				Percent of Dominant Species
1.					That Are OBL, FACW, or FAC: 33% (A/B)
2.					
3.					
4					Prevalence Index worksheet:
5.					
			= Total Cover		Total % Cover of: Multiply by:
Harb Stratum (Diat	(cize) E' rediue)				ORL apaging v1
1 Galium mollugo		35%	Ves	FACU	
2. Poa pratensis	,	60%	Yes	FAC	FAC species 60% $x_3 = 1.80$
3. Schedonorus a	rundinaceus	10%	No	FACU	FACU species 80% x4 = 3.20
4. Trifolium prater	150	30%	Yes	FACU	UPL species x5 =
5. Taraxacum offi	cinale	5%	No	FACU	Column Totals: 140% (A) 5.00 (B)
6.					
7					Prevalence Index = B/A = 3.57
8					
9					
10					Hydrophytic Vegetation Indicators:
11.		·			1 Daniel Test for Hudrophytic Vegetation
12.					
14.					3-Prevalence Index is ≤3.0 ¹
15.					4-Morphological Adaptations ¹ (Provide supporting
16.		·			data in Remarks or on a separate sheet)
17.					Problematic Hydrophytic Vegetation ¹ (Explain)
18.					
19.					¹ Indicators of hydric soil and wetland hydrology must
20.					be present, unless disturbed or problematic.
		140% =	= Total Cover		
Woody Vine Stratur	m (Plot size: 30' radius)				Hydrophytic
1					
۷		·	Total Course		Present ? Yes No X
			= Total Cover		
Remarks: (Include	nhoto numbers here or on a senarate cheet \				<u> </u>
inoidue					

Profile Desc	ription: (Describe	to the dept	h needed to	document the in	ndicator or co	onfirm the a	bsence of	indicators.)			
Depth	Matrix			Red	dox Features						
(inches)	Color (moist)	%	Co	lor (moist)	%	Type ¹	Loc ²	Texture	Re	marks	
0-16"	10YR 5/3	100						Silt Loam			
			_		·						
					·			· ·			
¹ Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Ma	trix, CS=Covered	or Coated Sa	and Grains.	² Locatior	: PL=Pore Lining, N	/I=Matrix.		
Hydric Soil I	ndicators ³ :	,		,			Test Ir	dicators of Hydric	Soils:		
Histoso	l (A1)			Sandy Gleve	d Matrix (S4)			Iron-Manga	nese Masses (F1	2)	
Histic E	pipedon (A2)			Sandy Redo	x (S5)			Verv Shallo	w Dark Surface (I	- 	
Black H	listic (A3)			Stripped Mat	trix (S6)			Other (Expl	ain in Remarks)	/	
Hvdroa	en Sulfide (A4)		_	Dark Surface	e (S7)				,		
Stratifie	d Lavers (A5)			Loamy Muck	v Mineral (F1)					
2 cm M	uck (A10)		_	Loamy Gleve	ed Matrix (F2)	/					
Deplete	d Below Dark Surfac	ce (Δ11)		Depleted Ma	trix (F3)						
Thick D	ark Surface (A12)		_	Bedox Dark	Surface (F6)			³ The hydric soil in	dicators have bee	n undated to	
Sandy I	Mucky Mineral (S1)		_	Depleted Da	rk Surface (F	7)		comply with th	e Field Indicators	of Hydric Soil	·c
5 cm M	ucky Post or Post (S	3)		Depleted Da	necione (E8)	')		in the United S	States Version 8	0///yune 00// 1 2016	3
	ucky Feat of Feat (C	55)			5510115 (1 0)					5, 2010.	
Restrictive L	ayer (if observed):										
Туре:											
Depth (i	nches):						Hydric S	oil Present?	Yes	No	X
Remarks:											
HYDROL	DGY										
Wetland Hvd	Irology Indicators:										
Primary Indic	ators (minimum of o	ne is requir	ed: check all	that apply)				Secondary Indica	tors (minimum of	two required)	
Surface	Water (A1)			Water-Staine	ed Leaves (B	9)		Surface Sol	l Cracks (B6)	. ,	
High W	ater Table (A2)			Aquatic Faur	na (B13)			Drainage P	atterns (B10)		
Saturati	ion (A3)		_	True Aquatio	Plants (B14)			Drv-Seasor	Water Table (C2	2)	
Water	Marks (B1)		_	Hvdrogen Su	ulfide Odor (C	1)		Cravfish Bu	rrows (C8)	·/	
Sedime	nt Deposits (B2)			Oxidized Rhi	izospheres on	n Living Root	s (C3)	Saturation \	/isible on Aerial Ir	magery (C9)	
Drift De	posits (B3)		_	Presence of	Reduced Iron	i (C4)	0 (00)	Stunted or St	Stressed Plants ([D1)	
	at or Crust (B4)			Recent Iron	Reduction in ⁻	Tilled Soile ((7 6)	Geomorphi	Position (D2)	/	
Iron De	posits (B5)			Thin Muck S	urface (C7)		50)	EAC-Neutra	al Test (D5)		
	ion Visible on Asriel	Imagan (P	7)						111001 (000)		
Inunual	v Vegetated Concav	inagery (D		Other (Evola	in in Romarke	-)					
	y vegetated concav	e ounace (i				5)					
Field Observ	vations:										
Surface Wate	er Present?	Yes	No X	Depth (inches): <u>N/A</u>						
Water Table	Present?	Yes	No X	Depth (inches): <u>N/A</u>						
Saturation Pr	esent?	Yes	No X	Depth (inches): <u>N/A</u>	Wetland	d Hydrolog	y Present?	Yes	No	Х
(includes cap	oillary fringe)										
Describe Re	corded Data (stream	i gauge, mo	nitoring well,	aerial photos, pre	evious inspect	ions), if avai	able:				
Remarks:											

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:	dp16
Investigator(s):	Ben Hess & Paige Eichelberger				Section, Townsh	ip, Range: S23 T14N R4E	
Landform (hillslope	, terrace, etc.):				Loca	al relief (concave, convex, non	e): none
Slope (%):	4% Lat:	39.64222705		Long:	-8	6.06119523	Datum: NAD83 UTM16N
Soil Map Unit Name	e: Crosby silt loam, fine-loamy subsoil-Urban land co	mplex, 0 to 2 percent slopes (Yo	cIA)			NWI cla	assification: none
Are climatic / hydro	logic conditions on the site typical for this time of year	ar?	·	Yes	X No	(If no, explain in Remar	ks.)
Are Vegetation	N Soil N	or Hydrology N	significantly dis	turbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	N Soil N	or Hydrology N	naturally proble	matic?	(If needed	explain any answers in Rema	urks.)
	FINDINGS Attach site man showing	sampling point locations	transects im	oortant featur	es etc	, , , , , , , , , , , , , , , , , , , ,	- ,
Hydrophytic Vo	natation Procent?		No.	le the	Sampled Ar	<u></u>	
Hydric Soil Pres	sent?	Yes	No X	within	a Wetland?	Yes	No x
Wetland Hydrol	ogy Present?	Yes	No X			103	
Remarks:							
VEGETATION	Use scientific names of plants.						
	k		Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test workshe	et:
1. Platanus occide	entalis		60%	Yes	FACW		
2. Celtis occidenta	alis		30%	Yes	FAC	Number of Dominant Specie	2S
3.						That Are OBL, FACW, or FA	AC: 4 (A)
4							
5.						Total Number of Dominant	
			90%	= Total Cover		Species Across All Strata:	<u> </u>
Sapling/Shrub Strat	tum (Plot size: 15' radius)				=	Percent of Dominant Specie	IS
1. Cornus drumm	ondii		30%	Yes	FAC	That Are OBL, FACW, or FA	AC: 67% (A/B)
2. Lonicera maaci	KII		30%	Yes	UPL		
3				·		Developer la dev modele l	
4						Prevalence index worksne	et:
5.			60%	- Total Covor		Total % Cover of:	Multiply by
			0078			That Are OBL, FACW, or FA	AC: A/B
Herb Stratum (Plot	t size: 5' radius)					OBL species	x1 =
1. Populus deltoid	les		20%	Yes	FAC	FACW species 60	% x2 = 1.20
2. Euonymus forti	unei		30%	Yes	UPL	FAC species 80	
3.						FACU species	x4 =
4.					·	UPL species 60	% x5 = 3.00
5.						Column Totals: 200)% (A) 6.60 (B)
6.							
7.						Prevalence Index	c = B/A = 3.30
8.							
9.				<u> </u>			
10.						Hydrophytic Vegetation In	dicators:
11							
12.						1-Rapid Test for Hy	/drophytic Vegetation
13.						X 2-Dominance Test	is >50%
14						3-Prevalence Index	t is ≤3.0°
15						4-Morphological Ac	laptations' (Provide supporting
16.				·		data in Remarks o	r on a separate sheet)
17.						Problematic Hydro	pnytic vegetation (Explain)
18.						¹ Indiantoro of hydrio opil and	unational budrology must
19.			<u> </u>			indicators of flydric soil and	wetland hydrology must
20				Tatal Causa		be present, unless disturbed	or problematic.
L			50%	= Total Cover			
Woody Vino Stratu	m (Plot size: 20' radius)					Hudrophytic	
1	<u> </u>					Vegetation	
2				·		Present? V	es X No
				= Total Cover			
Remarks: (Include	photo numbers here or on a separate sheet)					4	

Profile Desc	ription: (Describe to	o the depth	n needed to	document the in	dicator or co	onfirm the a	bsence of	indicators.)			
Depth	Matrix			Rec	dox Features			-			
(inches)	Color (moist)	%	Co	lor (moist)	%	Type ¹	Loc ²	Texture	Re	emarks	
0-16"	10YR 4/2	100						Silt Loam			
					·						
			_								
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Mat	trix, CS=Covered	or Coated Sa	and Grains.	² Locatio	n: PL=Pore Lining, N	1=Matrix.		
Hydric Soil I	ndicators ³ :						Test I	ndicators of Hydric	Soils:		
Histoso	ol (A1)		_	Sandy Gleye	d Matrix (S4)			Iron-Manga	nese Masses (F1	2)	
Histic E	pipedon (A2)			Sandy Redox	k (S5)			Very Shallo	w Dark Surface (I	-22)	
Black H	listic (A3)			Stripped Mat	rix (S6)			Other (Expla	ain in Remarks)		
Hydrog	en Sulfide (A4)			Dark Surface	e (S7)						
Stratifie	ed Layers (A5)			Loamy Muck	y Mineral (F1))					
2 cm M	luck (A10)			Loamy Gleye	ed Matrix (F2)						
Deplete	ed Below Dark Surfac	e (A11)		Depleted Ma	trix (F3)						
Thick D	Dark Surface (A12)			Redox Dark	Surface (F6)			³ The hydric soil in	dicators have bee	en updated to	
Sandy	Mucky Mineral (S1)			Depleted Da	rk Surface (F7	7)		comply with the	e Field Indicators	of Hydric Soils	s
5 cm M	lucky Peat or Peat (S	3)		Redox Depre	essions (F8)			in the United S	tates, Version 8.	0, 2016.	
Restrictive L	aver (if observed):										
Type:											
Depth (i	inches):						Hydric S	Soil Present?	Yes	No	Х
<u> </u>	-										
HYDROL	OGY										
Wetland Hyd	drology Indicators:										
Primary India	cators (minimum of or	ne is require	ed: check all t	that apply)				Secondary Indicat	ors (minimum of	two required)	
Surface	e Water (A1)			Water-Staine	ed Leaves (B9	9)		Surface Soi	Cracks (B6)		
High W	ater Table (A2)			Aquatic Faur	na (B13)			Drainage Pa	atterns (B10)		
Saturat	ion (A3)			True Aquatic	Plants (B14)			Dry-Season	Water Table (C2	2)	
Water I	Marks (B1)			Hydrogen Su	Ifide Odor (C	1)		Crayfish Bu	rrows (C8)		
Sedime	ent Deposits (B2)			Oxidized Rhi	zospheres on	Living Root	s (C3)	Saturation V	isible on Aerial Ir	magery (C9)	
Drift De	eposits (B3)			Presence of	Reduced Iron	(C4)		Stunted or S	Stressed Plants (I	D1)	
Algal M	lat or Crust (B4)			Recent Iron I	Reduction in T	Tilled Soils (C6)	Geomorphic	Position (D2)		
Iron De	eposits (B5)			Thin Muck S	urface (C7)			FAC-Neutra	l Test (D5)		
Inundat	tion Visible on Aerial I	Imagery (B7	⁷)	Gauge or We	ell Data (D9)						
Sparse	ly Vegetated Concave	e Surface (E	38)	Other (Expla	in in Remarks	5)					
Field Observ	vations:										
Surface Wat	er Present?	Yes	No X	Depth (inches)): N/A						
Water Table	Present?	Yes	No X	Depth (inches)): N/A						
Saturation P	resent?	Yes	No X	Depth (inches)): N/A	Wetland	d Hydrolog	gy Present?	Yes	No	Х
(includes cap	oillary fringe)										
Describe Re	corded Data (stream	gauge, mor	nitoring well, a	aerial photos, pre	vious inspecti	ions), if avai	lable:				
Remarks:											

Proiect/Site:	Northeast Corner of County Line & Arlington			Citv/County:	Indianapolis/M	arion	S	ampling Date: 5/12/	2022
Applicant/Owner:	Kimley Horn			State	IN	Sampling Point:		dp17	
Investigator(s):	Ben Hess & Paige Fichelberger				Section Townsh	in Range S23 T14N R	4F		
Landform (billslope						l relief (concave, conve		20	
Slope (%):	2%/	20 6409207		Long	LUCE	a relier (concave, conve	x, none). <u>no</u>		M16N
Sidpe (76).	2/0 Lat.	39.0400397			-01	0.00032801		balum. NADOS U	WITCH
Soli Map Unit Nam	e. Treaty sitty clay loan, o to 1 percent slopes (Thi	A)		N.	× N			allon. <u>none</u>	
Are climatic / hydro	blogic conditions on the site typical for this time of y	ear?		Yes	<u>X</u> No	(If no, explain in	Remarks.)		
Are Vegetation	N , Soil N	, or Hydrology N	significantly dis	turbed?	Are "Norm	al Circumstances" pres	ent?	Yes X No	
Are Vegetation	N , Soil N	, or Hydrology N	naturally proble	matic?	(If needed	, explain any answers ir	n Remarks.)		
SUMMARY OF	FINDINGS Attach site map showing	sampling point location	ns, transects, im	portant featur	es, etc.				
Hydrophytic Ve	getation Present?	Yes	No x	Is the	Sampled Ar	ea			
Hydric Soil Pres	sent?	Yes	No X	within	a Wetland?		Yes	No x	
Wetland Hydrol	logy Present?	Yes	No x	-					
Remarks:									
VEGETATION	Use scientific names of plants.								
			Absolute	Dominant	Indicator				
i ree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test we	orksheet:		
1							. .		
2						Number of Dominant	Species		(1)
3				·		That Are OBL, FACV	V, or FAC:	2	(A)
4				·					
5				·		Total Number of Don	ninant		
				= Total Cover		Species Across All S	trata:	4	(B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)					Percent of Dominant	Species		
1. Cornus drumm	nondii		20%	Yes	FAC	That Are OBL, FACV	V, or FAC:	50%	(A/B)
2. Gleditsia triaca	nthos		20%	Yes	FACU				
3. Fraxinus penns	sylvanica		5%	No	FACW				
4. Pyrus calleryar	na		10%	No	UPL	Prevalence Index w	orksheet:		
5. Elaeagnus uml	bellata		10%	No	UPL				
			65%	= Total Cover		Total % Cov	er of:	Multiply by	<i>r</i> :
						That Are OBL, FACW	, or FAC:		A/B
Herb Stratum (Plot	t size: 5' radius)	_				OBL species		x1 =	
1. Solidago altissi	ima		40%	Yes	FACU	FACW species	5%	x2 = 0.10)
2. Vernonia gigan	itea		5%	No	FAC	FAC species	55%	x3 = 1.65	5
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.				<u> </u>		Column Totals:	140%	(A) 5.1	5 (B)
6.				<u> </u>					
7				<u> </u>		Prevalence	e Index = B/A	3.68	
8.									
9.									
10.						Hydrophytic Vegeta	ation Indicato	ors:	
11.									
12.						1-Rapid Tes	t for Hydroph	ytic Vegetation	
13.						2-Dominand	e Test is >50	%	
14.						3-Prevalence	e Index is ≤3.	.0 ¹	
15.						4-Morpholog	gical Adaptatio	ons ¹ (Provide suppo	rting
16.						data in Ren	narks or on a	separate sheet)	
17.				·		Problematio	Hydrophytic	Vegetation ¹ (Explai	n)
18.				·					
19.						¹ Indicators of hydric s	soil and wetlar	nd hydrology must	
20.				·		be present, unless d	sturbed or pro	oblematic.	
			75%	= Total Cover		p			
L			.070						
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic			
1.						Vegetation			
2						Present?	Yee	No X	
			<u></u>	- Total Covor		i resent i	103		
Remarks: /Include	photo numbers here or on a congrate sheet)					1			
incidae	prioro numbers nere or on a separate sneet.)								

Deptin Matrix Redox Features Inchesj Color (molsi) % Type Loc Tacture Inchesj 10YR 4/1 100 Sit Learn Sit Learn Sit Learn Inchesj 10YR 4/1 100 Sit Learn Sit Learn Sit Learn Inchesj Inchesj Inchesj Inchesj Inchesj Sit Learn Inchesj Inchesj Inchesj Inchesj Inchesj Inchesj Inchesj	Remarks
Inches) Color (most) % Loc" Locurue 0-16" 10YR-4/1 100 Sit Loam Image: Color (most) % Color (most) % Loc" Sit Loam Image: Color (most) % Color (most) % Sit Loam Image: Color (most) % Color (most) % Loc" Sit Loam Image: Color (most) % Color (most) % Loc" Exercise Image: Color (most) % Color (most) % Loc" Exercise Image: Color (most) % Color (most) % Test Indicators # Image: Color (most) % Sandy Gleyed Matrix (S4) Inon-Mange Inon-Mange Histosol (A1) Daylow Matrix (F3) Color (F2) Complexed Matrix (F2) Complexed Matrix (F2) Complexed Matrix (F2) Complexed Matrix (F3) The hydric soil Sit Height Matrix (F2) The hydric soil Sit Height Matrix (F2) Complexed Matrix (F3) In the Unitee So m Mucky Pater (Fast Sanda Cast) Redox Dark Surface (F7) Complexed Matrix (F3) Sit In the Unitee Sit In the Unitee Sit In the Unitee </th <th>Remarks</th>	Remarks
0-15' 10YR 4/1 100 Sit Leam	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining years Yppe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining years Years Standy Gleyed Matrix (S4) Iton-Mang Histos (L1) Sandy Gleyed Matrix (S5) Very Shall Black Histor (A2) Gandy Redox (S5) Very Shall Straffied Layers (A5) Loamy Mucky Mineral (F1) Cam Muck (A10) 2 cm Muck (A10) Depleted Matrix (F2) Depleted Matrix (S3) Straffied Layers (A5) Loamy Gleyed Matrix (F2) Comply with 1 Straffied Layers (A5) Loamy Mucky Mineral (F1) Comply with 1 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) in the United Straffied (F6) Straffied Videoregy (if Observed): True Aquatic Plants (B14) Dry-Saas YDERLOCEY High Water Table (A2) Aquatic Fauna (B13) Drainage Standards (B1) Hydroid Sulfide Cdrc (C1) Craft A1 Craft A2 Standards (B1) Hydroid Sulfide Cdrc (C1) Craft A1 Craft A2 Surface Videor (A1) Copy States Craft A1 Craft A2 Surface Videor (A1)	
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. *Location: PL=Pore Lining yrint Soil Indicators?: Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. *Location: PL=Pore Lining yrint Soil Indicators of Hydr Histos Epipedon (A2) Sandy Redox (S5) Uery Shal Black Histic (A3) Stripped Matrix (S6) Other (Ex Hydrogen Suifide (A4) Dark Suiface (S7) Commy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Matrix (F3) *The hydric soil 2 sond Mucky Mineral (S1) Depleted Dark Suiface (F7) comply with 3 Sond Wucky Mineral (S1) Depleted Dark Suiface (F7) comply with 5 cm Mucky Peat or Peat (S3) Redox Dark Suiface (F8) in the United Stripped Matrix (F3) Stripped Matrix (F1) Depleted Matrix (F3) Secondary Indic Stripped Matrix (F3) Type:	
Type: C-Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location; PL=Pore Ling Type: C-Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location; PL=Pore Ling Histo Epipedon (A2) Sandy Redox (S5) Cost or Hydr Histo Epipedon (A2) Sandy Redox (S5) Cost or Hydr Straffed Layers (A5) Loamy Mukey Mineral (F1) Cost or Hydr 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) *The hydric soil 5 cm Muck (Mineral (S1) Depleted Dark Surface (F7) comply with in Sond Nucky Mineral (S1) Depleted Dark Surface (F7) comply with in 5 cm Muck y Mear or Peat (S3) Redox Depressions (F8) in the United Surface (F7) comply with in strifictive Layer (if Observed): True Aquatic Plants (B14) Dry: Saccodary India YPRCLOGY Matrix (S1) True Aquatic Plants (B14) Dry: Saccodary India High Water Table (A2) Aquatic Flants (B14) Dry: Saccodary India Surface Water (A1) Water Marks (B1) Hydrogon Surface Social (C1) Carrights (B14) Dirt Doposits (B2) Oxidized Rhizopheres on Living Roots (C3) Sturtace Wat	
Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining Histos (IA1) Sandy Gleyed Matrix (S4) Test Indicators of Hydr Histos (IA1) Sandy Redox (S5) Very Shal Black Histic (A3) Stripped Matrix (S6) Other (Ex Hydrogen Sulfide (A4) Dark Surface (S7) Commy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) *The hydric soil Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 Stripped (Inches): Hydro Soil Present? marks: YDROLOGY Surface Vater (A1) Drainage Surface Water (A1) Mydroid Surface (F1) Secondary India Surface Water (A1) Drainage Surface S(B3) Surface S(B3) Water Marks (B1) Hydrogen Sufface G(A1) Drainage Surface S(C3) Surface S(C3) Surface Water (A1) Hydrogen Sufface G(C	
Type: C-Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL-Pore Lining Type: Sandy Gleyed Matrix (S4) Test Indicators of Hydr Histos Epideon (A2) Sandy Redox (S5) Very Shal Black Histic (A3) Stripped Matrix (S6) Other (Ex Hydrogen Sulfide (A4) Dark Surface (S7) Other (Ex Straffied Layers (A5) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Botw Dark Surface (A11) Depleted Matrix (F2) Comply with Inter Diversion (F8) Sondy Mucky Mineral (S1) Depleted Dark Surface (F6) ³ The hydric soil Sondy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with Inter Diversion (F8) Startice Vertex (f1 observed): Type:	
Type: C=C_concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining Type: C=C_incentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining Histosol (A1) Sandy Gleyed Matrix (S4) Iron-Mang Histosol (A1) Sandy Redox (S5) Very Shal Black Histos (A3) Dark Surface (S7) Other (Ex Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) comply with 1 som Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 som Mucky Mineral (S1) Depleted Surface (F7) comply with 1 Sandy Mucky Mineral (S1) Depleted Cark Surface (F7) comply with 1 som Mucky Mineral (S1) Depleted Matrix (F3) som Mucky Mineral (S1) Som Mucky Mineral (S1) Depleted Matrix (F3) som Mucky Mineral (S1) Depleted Matrix (F3) som Mucky Mineral (S1) Depleted Matrix (F3) Som Mucky Mineral (S1) <td></td>	
Type: C-Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining ytric Soil Indicators?: Test Indicators of Hydr Histos (A1) Sandy Gleyed Matrix (S4) Iron-Marg. Histos (A2) Sandy Redox (S5) Other (Ex Black Histic (A3) Stripped Matrix (S6) Other (Ex Brack Histic (A3) Stripped Matrix (S6) Other (Ex Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Botw Dark Surface (A11) Depleted Matrix (F2) arcm plus (F6) Stratified Layer (If observed): True August (F6) *The hydric soil Scondy Mucky Mineral (S1) Depleted Matrix (F2) comply with 1 Scondy Mucky Mineral (S1) Depleted Matrix (F2) medox Depressions (F8) in the United true of United true of the U	
Test indicators Test indicators Histosol (A1) Sandy Gleyed Matrix (S4) Test indicators of Hydr Histosol (A2) Sandy Gleyed Matrix (S4) Very Shal Black Histosol (A1) Dark Surface (S7) Other (Ex Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) ³ The hydric soil Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 S cm Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 S cm Mucky Peat or Peat (S3) Redox Depressions (F8) in the United Surface (F7) comply with 1 S cm Mucky Peat or Peat (S3) Redox Depressions (F8) in the United Surface (F7) comply with 1 S cm Mucky Peat or Peat (S3) Redox Depressions (F8) in the United Surface (F7) comply with 1 S cm Mucky Peat or Peat (S3) Redox Depressions (F8) in the United Surface (F7) comply with 1 S untace VS Mucca (f1 observed): Type: marks: Type: comply with 1 com	NA NA-Inte
Public of Muchaelers 1 Sandy Gleyed Matrix (S4) Iron-Mang Histos (A1) Sandy Redox (S5) Other (Ex Black Histic (A3) Dark Surface (S7) Other (Ex Stratified Layers (A5) Loarny Mucky Mineral (F1) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Matrix (F3) The hydric soil Stratified Layers (A5) Sandy Mucky Vinieral (S1) Depleted Dark Surface (F7) comply with 1 Som Mucky Winieral (S1) Depleted Dark Surface (F7) comply with 1 Sandy Mucky Vinieral (S1) Depleted Dark Surface (F7) comply with 1 Som Mucky Peat or Peat (S3) Redox Dark Surface (F7) comply with 1 Strictive Layer (if observed): Type:	
Instruction Sainty Green Math, (Si) Indimension Histic Epipedion (A2) Sainty Green Math, (Si) Other (Ex Black Histic (A3) Stripped Matrix (S6) Other (Ex Hydrogen Suffide (A4) Dark Surface (S7) Caamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (A12) Redox Dark Surface (F7) comply with 1 S on Mucky Veat or Peat (S3) Redox Dark Surface (F7) comply with 1 S on Mucky Peat or Peat (S3) Redox Dark Surface (F7) comply with 1 S on Mucky Peat or Peat (S3) Redox Dark Surface (F7) comply with 1 S on Mucky Peat or Peat (S3) Redox Depressions (F8) in the United Bark Surface (F7) S on Mucky Peat or Peat (S3) Redox Depressions (F8) Scondary Indic S on Mucky Peat or Peat (S3) Redox Depressions (F8) Scondary Indic Surface VMater (A1) Water Anstrace (F7) comply with 1 Surface VMater (A1) Mater Stained Leaves (B9) Scondary Indic High Water Table (A2) Aquatic Fauna (B13) Drainage Surface VMater (A1) Presence of Reduced Iron (C4) Scureace	anoso Massos (E12)
Inside Lapledon (n, k2)	anese masses (1 12)
Display match (S0)	Dain in Pomarks)
Instruction (visit) Lan Suitade (Sr) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 Gen Mucky Mineral (S1) Gen Mucky Peat or Peat (S3) Redox Dark Surface (F7) comply with 1 Gen Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 Gen Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 Gen Mucky Mineral (S1) Depth (inches): Hydric Soil Present? marks: Hydric Soil Present? Saturation (A3) True Aquatic Fauna (B13) High Water Table (A2) Aquatic Fauna (B13) Gendem Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Orifit Deposits (B3) Presence of Reduced Iron Reduction in Tilled Soils (C6) Genomopi Iron Deposits (B5) Toin Muck Surface (C7) FAC-Neul Iron Deposits (B5) Toin Muck Surface (C7) FAC-Neul Iron Deposits (B5) No X Depth (inches): N/A Wetland Hydrology Present? Mater	
Outside Layers (xc) Loamy Oleged Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F5) 3"The hydric soil Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with strate (Fig Observed): Type:	
2 Chi Muck (Mb) Coally oblept and Marix (F2) Depleted Delow Dark Surface (A12) Redox Dark Surface (F6) ^a The hydric soli Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with 1 5 om Mucky Peat or Peat (S3) Redox Dark Surface (F7) comply with 1 estrictive Layer (if observed): Type:	
Depleted below Data Suitace (A1) Depleted math (F3) Thick Dark Suitace (A12) Redox Dark Suitace (F6) Strate (F6) S on Mucky Peat or Peat (S3) Depleted Dark Suitace (F7) comply with 1 S on Mucky Peat or Peat (S3) Redox Dark Suitace (F7) comply with 1 Type:	
Inter Dark Dark Outper (Pro) The Hydric Soil Sandy Muky Mineral (S1) Depleted Dark Surface (F7) comply with i S or Mucky Peat or Peat (S3) Depleted Dark Surface (F7) in the United estrictive Layer (if observed): Type:	indicators have been undeted to
	he Field Indicators of Ludric Soils
with worky if each reak (SS)	States Version 8.0, 2016
estrictive Layer (if observed): Type:	
Ipp:	
Depth (inches): Hydric Soil Present? amarks: Hydric Soil Present? YDROLOGY Frimary Indicators (minimum of one is required: check all that apply) Secondary Indic Surface Water (A1) Water-Stained Leaves (B9) Surface S High Water Table (A2) Aquatic Fauna (B13) Drainage Saturation (A3) True Aquatic Plants (B14) Dry-Sease Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish E Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Drift Deposits (B3) Presence of Reduced Iron (C4) Sturate o Algal Mar Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorp1 Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neul Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Yes No X Depth (inches): N/A Water Table Present? Yes No X Depth (inches): N/A Vater Table Present? Yes No X Depth (inches): N/A Vater Table Present	
YDROLOGY fettand Hydrology Indicators: rimary Indicators (minimum of one is required: check all that apply) Secondary Indic Surface Water (A1) Aquatic Fauna (B13) Drainage Saturation (A3) True Aquatic Plants (B14) Dry-Seas Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish E Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturatior Dift Deposits (B3) Presence of Reduced Iron (C4) Suntace Or Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Geomorph Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neut Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) FAC-Neut Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? ield Observations: V/A Depth (inches): N/A Wetland Hydrology Present? vater Table Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? ncludes capillary fringe) Vescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Nemarks:	
Wetland Hydrology Indicators: Secondary Indic Primary Indicators (minimum of one is required: check all that apply) Secondary Indic Surface Water (A1) Water-Stained Leaves (B9) Surface S High Water Table (A2) Aquatic Fauna (B13) Drainage Saturation (A3) True Aquatic Plants (B14) Dry-Sease Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish E Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted o Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpl Inon Deposits (B5) Thin Muck Surface (C7) FAC-Neution Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Surface Water Present? Yes No X Depth (inches): N/A Water Table Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Saturation Present? Yes No	
Primary Indicators (minimum of one is required: check all that apply) Secondary Indic Surface Water (A1) Water-Stained Leaves (B9) Surface S High Water Table (A2) Aquatic Fauna (B13) Drainage Saturation (A3) True Aquatic Plants (B14) Dry-Seas Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish E Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted o Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpl Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neution Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Wetland Hydrology Present? Surface Raturation Present? Yes No X Depth (inches): N/A Water Table Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	
Surface Water (A1) Water-Stained Leaves (B9) Surface S High Water Table (A2) Aquatic Fauna (B13) Drainage Saturation (A3) True Aquatic Plants (B14) Dry-Seas Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish E Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted o Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpl Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neul Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface Water Present? Yes No X Depth (inches): N/A Vater Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Describe Recorded Dat	ators (minimum of two required)
High Water Table (A2) Aquatic Fauna (B13) Drainage Saturation (A3) True Aquatic Plants (B14) Dry-Seas Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish E Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted o Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpi Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neul Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: No X Depth (inches): N/A Water Table Present? Yes No X Depth (inches): N/A Water Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: <td>oil Cracks (B6)</td>	oil Cracks (B6)
Saturation (A3) True Aquatic Plants (B14) Dry-Seasi Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish E Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted o Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpl Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neut Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) FAC-Neut Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? ield Observations: No X Depth (inches): N/A water Present? Yes No X Depth (inches): N/A water apillary fringe) No X Depth (inches): N/A Wetland Hydrology Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Patterns (B10)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish E Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturatior Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted o Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpl Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neut Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) FAC-Neut Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Water Table Present? Yes Surface Water Present? Yes No X Depth (inches): N/A Vater Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	on Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted o Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpi Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neut Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) FAC-Neut Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Vater Table Present? Yes Sufface Water Present? Yes No X Depth (inches): N/A Vater Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Obecribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	urrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted o Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpi Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neur Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) FAC-Neur Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) FAC-Neur ield Observations: No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Coscribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorpl Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neur Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Other (Explain in Remarks) Other (Explain in Remarks) Wetland Hydrology Present? Surface Water Present? Yes No X Depth (inches): N/A Vater Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neur Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Other (Explain in Remarks) Surface Water Present? Yes No X Depth (inches): N/A Surface Water Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Other (Explain in Remarks) Surface Water Present? Yes No Yes No X Depth (inches): N/A Vater Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks: Remarks:	Stressed Plants (D1)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: No X Depth (inches): N/A Surface Water Present? Yes No X Depth (inches): N/A Nater Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	 Stressed Plants (D1) ic Position (D2) ral Test (D5)
ield Observations: Surface Water Present? Yes No X Depth (inches): N/A Vater Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	r Stressed Plants (D1) nic Position (D2) ral Test (D5)
Surface Water Present? Yes No X Depth (inches): N/A Water Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	r Stressed Plants (D1) nic Position (D2) ral Test (D5)
Water Table Present? Yes No X Depth (inches): N/A Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	r Stressed Plants (D1) nic Position (D2) ral Test (D5)
Saturation Present? Yes No X Depth (inches): N/A Wetland Hydrology Present? includes capillary fringe) Depth (inches): N/A Wetland Hydrology Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	r Stressed Plants (D1) nic Position (D2) ral Test (D5)
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	r Stressed Plants (D1) nic Position (D2) ral Test (D5)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	r Stressed Plants (D1) nic Position (D2) ral Test (D5)
Remarks:	Yes No No No No No No No
Remarks:	Yes No No No No No No
Remarks:	Yes No
	Yes No No
	Yes No
	Yes No No
	Yes No No

TOGETHER we can do great things

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 community.

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.



now



www.cardno.com www.stantec.com