December 16, 2022

Re: New Albany Tech Park Permit - Intermediate Application and Support 401 Wetlands Licking County DSW401228236A2



Section 1: Applicant (P	roject Proponent) and (Consultant/Agent Inform	nation		
	Applicant (Pr	oject Proponent)	Consultant/Agent		
Company/Agency Name:	MBJ Holdings, LLC		EMH&T		
Address:	8000 Walton Parkway, Sui 43054	ite 120, New Albany, OH	5500 New Albany Road, New Albany, OH 43054		
Contact Name/Title:	Brent Bradbury/CFO		Heather Dardinger/Senior Env Scientist		
Contact Phone:	(614) 939-8000		(614) 775-4523		
Alternate Phone:					
Contact FAX:			(614) 561-3503		
Contact Email:	BBradbury@newalbanyco	mpany.com	hdardinger@emht.com		
Technical Contact:	Richard Roggenkamp				
Technical Phone:	(614) 939-8000				
Technical Email:	droggenkamp@newalbany	company.com			
Section 2: Project Infor	mation				
A. Project Name: New Alba	any Tech Park				
B. Has a pre-filing (pre-ap	plication) meeting reques	t			
been submitted?		X Yes	No No		
401 Pre-application Revie	wer: Lamoreaux Date	of pre-filing meeting reque	est submittal: 10/24/2022		
and manufacturing/mainten facilities and related infrastr the Intel semiconductor mai to that facility. The proposed expansion by existing busin	ance buildings, along with a ucture. The proposed devel hufacturing facility to the noi d development will also sup esses and sites for new cor	ssociated parking areas, pa opment is anticipated to prir rth, which requires certain su port the existing New Albany npanies that complement ex	ved storage areas, site entrances and drives, stormwater narily be occupied by companies supporting and supplying upport and supply functions to be located in close proximity / International Business Park by providing locations for isting uses.		
D. Construction Start Date	e: 03/01/2023 End Date:	12/31/2026	_		
E. Is any portion of the ac	tivity complete now?	∐ Yes [
Is this an "After-The-Fact'	' permit application?	L Yes [X No		
Description of completed	activities and its impact o	on the waters of the state .:			
F. Coordinates LATITUDE	: 40.105064 LONGITUD	E: -82.723607			
G. Project Address: Clove	r Valley Road, New Albany,	OH 43054			
Location Description: The City of New Albany, Licking	442.5-acre site is located e County, Ohio.	east and west of Clover Valle	ey Road, between Jug Street and Miller Road NW in the		
ZIP Code(s): 43054					
County(ies):		Township(s):			
Licking					
H. 8 or 12 Digit HUC Numl	per:	I. Watershed Name:			
050600011307		Duncan Run			
050600011503		Headwaters Blacklick Cre	ek		
050400060301		Headwaters Raccoon Cre	ek		
J. U.S. Army Corps of Eng	jineers District: Huntingtor	1			

K. Proposed impacts to "water	s of the state":				
Beach Nourishment	Blasting		Breakwater	🗌 Bul	lkhead
Bridge/Culvert	Dam		Dredge	🔀 Fill	
Groin/Jetty	Levees/Berms		Mine Through		vetment
Bank Stabilization	Stream Channelizatio	on 🗌	Stream Relocation	🗌 Wa	ter Body Crossing
Weirs	Other				
L. Other water related permits	issued or required include:				
Individual 404 Permit	Public Notice Number: LF	RH 2022-950-SC	CR		
Nationwide Permit					
Section 9 Permit					
Section 10 Permit					
Isolated Wetland Permit	Permit Level: Level 3			Date Submitted:	11/17/2022
NPDES Permit	Permit Type: General			Date Issued: 10/*	13/2022
Permit to Install					
Regional General Permit					
ODNR Permit					
Oil & Gas Storm Water Gene	eral Permit				
Section 3: Fees					
Are you exempt from fees?			Yes 2	No (If YES, leave	e fee section blank)
Are you a County, Township, o	r Municipal Corporation?		Yes 🛛	< No	
If YES, fee cap is \$5,000.00 ins	tead of \$25,000.00				
Application Fee =				\$200.00	
Review Fees					
Wetland Acres Impacted		6.51 x \$500.0	= 00	\$3,255.00	
Intermittent Stream Linear Fee	t Impacted	563 x \$10.00) =	\$5,630.00	(\$200 minimum fee)
Perennial Stream Linear Feet I	mpacted	0 x \$15.00) =	\$0.00	(\$200 minimum fee)
Lake Cubic Yards Impacted		0 x \$3.00	-	\$0.00	
		Total Review	Fees =	\$8,885.00	
Total F	ees (\$200 Application Fee +	Total Review F	ees) =	\$9,085.00	
Due with the 401 WQC Ap	oplication (Application Fee +	1/2 of Review	Fee) =	\$4,642.50	
DLEASE MAKE FEE CHECK PA	ie at the 401 WQC Issuance AYABLE TO: "TREASURER,	(1/2 of Review STATE OF OH	Fee) = IO''	\$4,442.50	
Section 4: Submitted Docur	nentation				
Check all documents/items that	it have been submitted.				
Submitted Pre-filing Meeting	Request				
Upload File(s): Application submi	itted 10-24-22.pdf				
Proposed Lake Impacts Tab	le				
X Proposed Stream Impacts T	able				
Upload File(s): A - Proposed Stre	am Impacts and Mitigation Ta	ble.pdf			
Proposed Wetland Impacts	Table				
Upload File(s): B - Proposed We	land Impacts and Mitigation T	able.pdf			
Additional Impact Tables					

Water Delineation Report						
Upload File(s): Clover Valley Road Site Delineation Report_REV	/ 2022-09-08.pdf					
X Site Photographs						
Upload File(s): 3B-Photographs.pdf						
X Ohio Rapid Assessment Method (ORAM) Forms						
Upload File(s): Juris ORAMs combined.pdf						
X Habitat Evaluations						
Upload File(s): HHEI Stream 2.pdf, HHEI Stream 3.pdf, HHEI St	tream 1.pdf					
Biological Sampling Information						
X US Army Corps of Engineers Jurisdictional Determination						
Upload File(s): 7-2022-424-SCR-Blacklick Creek_JD FLAT.pdf						
US Army Corps of Engineers Public Notice or Provisional Natio	US Army Corps of Engineers Public Notice or Provisional Nationwide Permit					
Upload File(s): LRH 2022-950-SCR _ Huntington District _ Hunt	ington District Regulatory Public Notices.pdf					
Ohio Department of Natural Resources - Natural Heritage Data	base Request					
Upload File(s): 22-1031; EMH&T - New Albany Tech Park Comr	ments.pdf					
US Fish & Wildlife Service - Threatened and Endangered Spec	ies Coordination					
Upload File(s): 2022-0089745 New albany, bat survey recomme Net Survey Project Area.pdf	ended NETO.pdf, USFWS Response re bat survey 8-24-21.pdf, Dragonfly Mist-					
X Proposed Project Antidegradation Analysis						
Upload File(s): Ohio EPA SEJ TABLE NA Tech Park.pdf, NA Te	ch Park 404-401 Report.pdf					
X Proposed Project Mapping						
Upload File(s): Exhibits 1-10.pdf						
X Proposed Mitigation Plan						
Upload File(s): NA Tech Park - Mitigation Summary.pdf, Avis Ro 1, SCIO-187, TUSC-95, MBJ Holdings, LLC, deposit payment vo	pad_Pooled Stream Mitigation Balance Sheet REV6 11-09-2022.pdf, USUMBI- erification letter.pdf					
Section 5: Applicant and Agent Signature						
I hereby designate and authorize the agent/consultant identified furnish, upon request, supplemental information in support of the	in Section 1 to act on my behalf in the processing of this application, and to e application:					
Application is hereby made for a Section 401 Water Quality Cerherein is true, accurate, and complete to the best of my knowled authority review and take action on the CWA 401 certification re	tification. The project proponent hereby certifies that all information contained lge and belief. The project proponent hereby requests that the certifying quest within the applicable reasonable period of time.					
Applicant Name:	Title:					
Brent Bradbury	CFO					
	Date:					
	Electronically submitted on 12/10/2022					



Application for Section 401 Water Quality Certification - Proposed Lake Impacts Division of Surface Water 401 Water Quality Certification and Isolated Wetland Permitting Unit

Water Body ID Coastal Frazian Impact Type Cubic Vards of Lakeward Extent Shareline Impacted Placement of Dradged Mat	Preferred Alternative	
Area? Fill/Dredged Material (linear ft.)	Impact Type Cubic Yards of Lakeward Extent Shoreline Impacted Placement of Drect Fill/Dredged Material (linear ft.) (linear ft.)	ged Material



Application for Section 401 Water Quality Certification - Proposed Stream Impacts and Mitigation Division of Surface Water

401 Water Quality Certification and Isolated Wetland Permitting Unit

				Sectio	n 1: Streams Onsite	and Proposed Impacts				
	0.2.8.00	1				Pret	ferred Alternative			
Stream ID	Jurisdictional?	Flow	Aquatic Life Use Designation in 3745-1	Existing Use?	Onsite (linear ft.)	Impact Length (linear ft.)	Impact Type			
No records fou	Ind									
			Section 2:	Proposed St	ream Mitigation (Ch	eck All That Apply) Preferred Alternative	6			
🗌 In-L	ieu Fee Program		ILF S	ponsor:						
Nur	Number of Stream Credits:			Number of Buffer Credits:						
Pro	of of Reservation	17								
🗌 On-	Site Permittee-Re	esponsible	Mitigation							
Res	storation		Aquat	tic Life Use:		linear feet:				
Cre	ation		Aquat	Aquatic Life Use:			linear feet:			
Pre	servation		Aquat	tic Life Use:		linear feet:	Buffer Width Linear Feet:			
Enhancement Aqu			Aquat	tic Life Use:		linear feet:	linear feet:			
			Existi	ing Aquatic Li	fe Use:	Enhanceme	nt Activity:			
Oth	er									
Other Descrip	otion:									



Application for Section 401 Water Quality Certification - Proposed Wetland Impacts and Mitigation Division of Surface Water

401 Water Quality Certification and Isolated Wetland Permitting Unit

					Section 1: We	etlands Onsite and Propos	sed Impacts			
Wetland ID	ORAM	Category	Cat.	Ohio EPA Reviewer Acreage			Preferred Alternative			
	Score		Verified by	who Verified	Onsite	Impac	Acreage	Impact Type		
			Ohio EPA?			Forested	Non			
No records f	found									
				Section 2: Prop	osed Wetland I	Mitigation (Check All That	Apply) Preferred Alternative			
v	Vetland Mitig	gation Bank	C	Number o	f Forested Cred	lits:	Type of Credits (if	applicable):		
N	litigation Ba	ink:		Number of Non-Forested Credits:			Type of Credits (if	applicable):		
			Number of Buffer Credits:			Type of Credits (if applicable):				
- P	roof of Res	ervation?								
- Ir	In-Lieu Fee Program			ILF Spons	ILF Sponsor:					
N	Number of Wetland Credits:			Number o	Number of Buffer Credits:					
- P	roof of Res	ervation?								
	n-Site Perm	ittee-Respo	onsible Miti	gation			7.443.3			
	estoration			Type of W	Type of Wetland:					
Creation			Type of W	Type of Wetland:						
Preservation			Type of W	Type of Wetland:						
Enhancement Type of V			Type of W	etland:		Acres:	Acres:			
	other									
Other Desc	ription:									



Application for Section 401 Water Quality Certification — Proposed Wetland Impacts and Mitigation

Division of Surface Water 401 Water Quality Certification and Isolated Wetland Permitting Unit

						Proposed Impacts		d Impacts
Wetland ID	ORAM Score	Category	Cat. Verified by Ohio EPA?	Ohio EPA Staff Who Verified	Acreage Onsite	Impact A	creage	Impact Type
						Forested	Non	
Wetland K	30.00	2		Lamoreaux	0.20	0.20		Fill
Wetland L	54.00	2		Lamoreaux	1.15	0.33		Fill
Wetland R	54.00	2		Lamoreaux	5.53	5.53		Fill
Wetland S	39.50	2		Lamoreaux	0.20	0.20		Fill
Wetland V	39.00	2		Lamoreaux	0.25	0.25		Fill
Click here to enter text.		1		Choose an item.				Choose an item.
Click here to enter text.		1		Choose an item.		B		Choose an item.
Click here to enter text.		1		Choose an item.				Choose an item.
Click here to enter text.		1		Choose an item.				Choose an item.
Click here to enter text.		1		Choose an item.				Choose an item.
Click here to enter text.		1		Choose an item.				Choose an item.
Click here to enter text.		1		Choose an item.				Choose an item.
				Wetland Acreage Totals	7.33	6.51	0.00	
				Totals – Category 1 Wetlands	0.00	0.00	0.00	
				Totals – Category 2 Wetlands	7.33	6.51	0.00	
				Totals – Category 3 Wetlands	0.00	0.00	0.00	

	Proposed Wetland N	Aitigation (Check All That Ap	pply)
Wetland Mitigation Bank	Number of Forested Credits: 16.3	Type of Credits (if applicabl	e): Choose an item. Proof of Reservation?
Mitigation Bank: Other	Number of Non-Forested Credits: 0	Type of Credits (if applicabl	e): Choose an item.
	Number of Buffer Credits: 0	Type of Credits (if applicabl	e): Choose an item.
In-Lieu Fee Program	Num: ILF Sponsor: Choose an item. Num:	er of Wetland Credits: per of Buffer Credits:	Proof of Reservation?
Permittee-Responsible Mitigation	Reestablishment (Restoration) Ch Preservation Choose an item. Other (Credits from the Rocky For	noose an item. Acres Acres rk Pooled Mitigation Site)	Rehabilitation (Enhancement) Choose an item. Acres Establishment (Creation) Choose an item. Acres



Application for Section 401 Water Quality Certification — Proposed Stream Impacts and Mitigation

Division of Surface Water 401 Water Quality Certification and Isolated Wetland Permitting Unit

		2 Flau	Aquatic Life Use			Proposed Impacts		
Stream ID	Jurisdictional?	Flow	Designation in 3745-1	Existing Use?	Length Onsite (linear ft.)	Impact Length (linear ft.)	Impact Type	
Stream 1 (Blacklick Creek)	YES	Choose an item.	Choose an item.	Choose an item.	3329.00	0.00	Choose an item.	
Stream 2	YES	Choose an item.	Choose an item.	Choose an item.	54.00	0.00	Choose an item.	
Stream 3 (Duncan Run)	YES	Choose an item.	Choose an item.	Choose an item.	563.00	563	Fill	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
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Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
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Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
Click here to enter text.	Choose an item.	Choose an item.	Choose an item.	Choose an item.			Choose an item.	
				Stream Length Totals	3946.00	563.00		

Section 2: Proposed Stream Mitigation (Check All That Apply)							
	Stream Mitigation Bank Mitigation	on Bank: Choose an item.	Number of Stream Credits:	Number of Buffer Credits:	Proof of Reservation? YES \Box	NO 🗆	
	In-Lieu Fee Program ILF Spon	sor: Choose an item.	Number of Stream Credits:	Number of Buffer Credits:	Proof of Reservation? YES \Box		
X	Permittee-Responsible Mitigation	Reestablishment (Restor	ation) of WWH 422.25 linear feet	Rehabilitation (Enhancement) of linear feet of a WWH			
		Establishment (Creation)	of Choose an item. linear feet	to a WWH through Choos	se an item.		
		Preservation of Choose a	n item. linear feet				
		with Choose an item. fo	oot buffers	Other Click here to enter	text.		



Instructions:

Filling out a pre-application form is an informal first step in the Section 401 WQC and/or Isolated Wetland Permitting process. It provides the opportunity to present and discuss details of your project while it is in its early planning stages. At a minimum, you must indicate your meeting purpose and complete Sections 1, 2 and 3 Please fill out Section 4 to the degree possible given your unique constraints on time and resources. More detailed instructions are provided in the Instructions for filling out the Pre-application meeting request form.

Meeting Purpose (Please state what you hope to accomplish at the pre-application meeting)

MBJ Holdings, LLC is proposing to develop an industrial business park on an approximately 442.5-acre site located east and west of Clover Valley Road, between Jug Street and Miller Road NW in the City of New Albany, Licking County, Ohio. The proposed development would result in impacts to jurisdictional wetlands, isolated wetlands, jurisdictional streams, and non-jurisdictional ponds, which will require authorization under an Individual 401 WQC and a Level 3 IWP. The purpose of this pre-application submittal is to provide information regarding the site and to fulfill the required pre-filing meeting request.

Questions (Please list any specific questions you have regarding the 401 WQC process)

Mail or E-mail completed request form and supporting information to: Ohio EPA Division of Surface Water 401 Water Quality Certification and Isolated Wetland Permiting Unit P.O. Box 1049 Columbus, OH 43216-1049 Email Address: EPA401Webmail@epa.ohio.gov

Section 1: Applicant an	d Consultant/Agent Infor	matio	n			
	Appli	cant		Agent		
Company/Agency Name:	MBJ Holdings, LLC			EMH&T		
Contact Name:	Dick Roggenkamp			Heather Dardinger		
Title:	Dir. Real Estate			Senior Env Scientist		
Address:	8000 Walton Parkway, Suite 43054	120, N	lew Albany, OH	5500 New Albany Road, New Albany, OH 43054		
Phone:	(614) 939-8040			(614) 775-4523		
Alternate Phone:						
FAX Number:				(614) 561-3503		
Email Address:	droggenkamp@newalbanyco	ompany	y.com	hdardinger@emht.com		
Statement of Authorizat	tion:					
Applicant Name: Brent Bradbury			Title: CFO			
Signature: Electronically submitted by	NEWALBANYCO		Date: Electronically submi	tted on 10/24/2022		
Section 2: Project Inform	mation					
Project Name: New Albany	Tech Park					
Coordinates LATITUDE: 4	0.105064 LONGITUDE: -8	2.7236	607			
Project Address: Clover Va	alley Road, New Albany, OH 4	13054				
Project Location Descripti New Albany, Licking County	on: This site is located east a , Ohio.	ind wes	st of Clover Valley Ro	ad, between Jug Street and Miller Road NW in the City of		
ZIP Code(s): 43054						
County:		Township:				
Licking						
8 or 12 Digit HUC Number	:	Water	shed Name:			
050600011307		Duncan Run				
050600011503		Headwaters Blacklick Creek				
050400060301		Headwaters Raccoon Creek				
Corps District: Huntington						
Identify the criteria used to In general, selection criteria 400 acres, reasonable proxi	o select the project site, inc a for New Albany Tech Park si mity to the New Albany Intern	luding te inclu ational	stream and wetland uded location within or Business Park and th	I impact avoidance and minimization: r contiguous with the City of New Albany, size of at least ne Intel site, interstate access, and suitable utilities.		
Attachments (Check all do	ocuments/items that have be	en su	bmitted):			
Site Map with boundar	ies		z			
Upload File(s): 5-Exhibit 6 -	Delineation Map.pdf					
Site maps for alternativ	ve locations considered during site	e select	ion			
Site identified on USG	S topographic map					
Upload File(s): Exhibit 2 - U	SGS.pdf					
Proposed project footp	rint (including proposed construct	tion limi	ts)			
🔀 Shape File		_				
Upload File(s): StudyArea.d	bf, StudyArea.prj, StudyArea.	shx, St	udyArea.shp			
SECTION 3: Project Info	ormation					

Description of Project:

The proposed development is an industrial business park, providing approximately 4.7 million square feet of occupiable building space for advanced technology manufacturers and suppliers. The site is anticipated to include multiple warehouses, flex office and manufacturing/maintenance buildings, along with associated parking areas, paved storage areas, site entrances and drives, stormwater facilities and related infrastructure.

Proposed Project Schedule (Include construction start date and other dates pertinent to the project):

It is anticipated that construction of the initial phase will commence upon or soon after the isolated wetland permit issuance in 2023 and be completed within two years. A second phase of development is expected to commence in 2024, and be completed over the following two years, such that full build out is completed by the end of 2026.

Description of Project Purpose and Need:

The pu manufa support	rpose of the proposed development is to construct an industrial business park providing multiple warehouses, flex office and cturing/maintenance buildings for advanced technology manufacturers and suppliers. The proposed development is anticipated to and complement existing business located within the New Albany International Business Park, as well as the adjacent Intel facilitie
Sectio	n 4: Investigation of Water Resources and Permitting Considerations
Check	all documents/items that have been submitted.
\mathbf{X}	Have you taken photographs of the site?
\times	Photographs attached
Upload	File(s): 1-Delineation Photos_rev.pdf
\mathbf{X}	Did you review a NRCS Soil Survey for this project?
\mathbf{X}	NRCS Soil Survey attached
Upload	File(s): 2-Exhibit 3A - Soils.pdf
\mathbf{X}	Did you review USGS Stream Stats for this project?
\mathbf{X}	USGS Stream Stats attached
Upload	File(s): 3-StreamStats.pdf
\mathbf{X}	Did you review a National Wetlands Inventory Map (NWI) for this project?
\mathbf{X}	NWI Map attached
Upload	File(s): 4-Exhibit 5 - NWI Map.pdf
X	Have you delineated the water resources on the site?
\mathbf{X}	Wetland Delineation attached
Upload	File(s): 5-Exhibit 6 - Delineation Map.pdf
X	Have you submitted the delineation to the U.S. Army Corps of Engineers?
Date S	Submitted: 05/23/2022
X	Have you received a Jurisdictional Determination?
\mathbf{X}	Jurisdictional Determination attached
Upload	File(s): 7-2022-424-SCR-Blacklick Creek_JD FLAT.pdf
X	Did you review OAC rules 3745-1-08 to 3745-1-32 and/or 3745-1-53 for each of the water bodies on site to determine if it has a designated use?
\mathbf{X}	OAC rules attached
Upload	File(s): 8-OAC 3745-1-09.pdf
\mathbf{X}	Have you performed habitat assessments on the streams on site?
\mathbf{X}	Habitat Assessment Score Sheets attached

Upload File(s): HHEI Stream 2 PDF.pdf, HHEI Stream 1 PDF.pdf, HHEI Stream 3 PDF.pdf

The version of the wellands on the set of the wellands on the set of the wellands on the set of the wellands of the set of the wellands of the set of the wellands of the set of	\mathbf{X}
--	--------------

X 10-page ORAM form attached

Upload File(s): ORAMs combined.pdf

Have you performed any other analysis (e.g., biological)?

Other Analysis attached

 Do you have an Avoidance and Minimization Plan? Avoidance/Minimization Plan attached 					
 Have you selected a Mitigation Site? Mitigation Site Map attached 	Have you selected a Mitigation Site? Mitigation Site Map attached				
Do you have a conceptual Mitigation and Monitoring Pla Conceptual Mitigation and Monitoring Plan attached	an?				
X Are you familiar with Ohio EPA's 401 Water Quality app	lication requirements?				
X Have you read Ohio EPA's Integrated Wetland Assess	nent Program. Part 6?				
(Standardized Monitoring Protocols and Performance Standard	s for Ohio Mitigation Wetlands. 2004)				
X Are you familiar with the Wetland Water Quality Standa	rds, Ohio Administrative Code rules 3745?				
(Rules 3745-1-50 to 54 and the Isolated Wetland Statute, Ohio	Revised Code 6111.02 to 6111.029)				
Have you determined if other permits are necessary for the project? Check all that apply: Individual 404 Permit Nationwide Permit Section 9 Permit Section 10 Permit Isolated Wetland Permit Permit Level: Level 3 NPDES Permit Permit Type: General Permit to Install ODNR Permit Regional General Permit					
The information requested in this form is based on the requirements in Ohio Revised Code 6111.30 and 6111.021, and Administrative Code Chapter 3745-32. Applicants should be familiar with the contents of these laws and regulations prior to completing this request form. Additional information is available at www.epa.ohio.gov/dsw/401/index.aspx or by calling (614) 644-2001					
For Internal Ohio EPA Use					
Date Received:	Coordinator:				
Ohio EPA ID #:	USACE PN #:				
Site Visit (Y/N):					



DEPARTMENT OF THE ARMY HUNTINGTON DISTRICT, CORPS OF ENGINEERS 502 EIGHTH STREET HUNTINGTON, WEST VIRGINIA 25701-2070

September 13, 2022

Regulatory Division North Branch LRH-2022-424-SCR-Blacklick Creek

APPROVED AND PRELIMINARY JURISDICTIONAL DETERMINATIONS

Dick Roggenkamp New Albany Company 800 Walton Parkway, Suite 120 New Albany, Ohio 43054

Dear Mr. Roggenkamp:

I refer to the *Clover Valley Road 515-Acre Site Investigation of Waters of the United States* dated May 23, 2022 and the additional information dated August 8, 2022, submitted on your behalf by EMH&T, Inc. You have requested a preliminary jurisdictional determination (JD) for the potential jurisdictional aquatic resources and an approved JD for the potential non-jurisdictional feature on the approximately 442.5-acre site located east and west of Clover Valley Road between Jug Street and Miller Road NW in Jersey Township, Licking County, Ohio at approximately 40.103135 latitude, -82.720736 longitude. On-site waters flow Blacklick Creek, an indirect tributary to the Scioto River, a traditional navigable water of the United States. Your JD request has been assigned the following file number: LRH-2022-424-SCR-Blacklick Creek. Please reference this number on all future correspondence related to this JD request.

The United States Army Corps of Engineers' (Corps) authority to regulate waters of the United States is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a Department of the Army (DA) permit be obtained prior to discharging dredged and/or fill material into waters of the United States, including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over or under a navigable water.

Based upon a review of the information provided, this office has determined three (3) streams (Stream 1 - 3,329 linear feet, Stream 2 - 54 linear feet, and Stream 3 - 588 linear feet) and five (5) wetlands (Wetland K – 0.20 acre, Wetland L – 1.15 acres, Wetland R – 5.53 acres, Wetland S – 0.20 acre, and Wetland V – 0.25 acre) are located within the preliminary JD review area. The aquatic resources identified above and on the enclosed preliminary JD form may be waters of the United States in accordance with the Regulatory Guidance Letter for JDs issued by the Corps on October 31, 2016 (Regulatory Guidance Letter No. 16-01). As indicated in the guidance, this preliminary JD is non-binding and cannot be appealed (33 CFR 331.2), and only

provides a written indication that waters of the United States, including wetlands, may be present on-site.

You have declined to exercise the option to obtain an approved JD in this instance and at this time for the above aquatic resources. However, for the purposes of the determination of impacts, compensatory mitigation, and other resource protection measures for activities that require authorization from this office, the above aquatic resources will be evaluated as if they are waters of the United States.

Enclosed please find a copy of the preliminary JD form. If you agree with the findings of this preliminary JD and understand your options regarding the same, please sign and date the preliminary JD form and return it to this office within 30 days of receipt of this letter. You should submit the signed copy to Kayla Osborne of the North Branch at kayla.n.osborne@usace.army.mil or to the following address:

United States Army Corps of Engineers Huntington District Attn: North Branch 502 Eighth Street Huntington, West Virginia 25701

Our December 2, 2008 headquarters guidance entitled *Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in <u>Rapanos v. United States</u> & <u>Carabell v. United</u> <u>States</u> was followed in the final verification of Section 404 jurisdiction. Based on a review of the information provided and other information available to us, this office has determined Wetlands A-J, M-Q, T-U, and Z, totaling 14.46 acres, and Ponds 1-5, totaling 3.57 acres, are surrounded by uplands and do not exhibit a distinct surface water connection to a water of the United States. Wetlands A-J, M-Q, T-U, and Z and Ponds 1-5 would not support interstate or foreign commerce interests, nor do they contain any rare, threatened, or endangered species. Therefore, Wetlands A-J, M-Q, T-U, and Z and Ponds 1-5 are not jurisdictional waters of the United States. However, you should contact the Ohio Environmental Protection Agency, Division of Surface Water, at (614) 664-2001 to determine state permit requirements.*

In accordance with the June 5, 2007 Joint Memorandum between the United States Environmental Protection Agency (USEPA) and the Corps and the January 28, 2008 Corps Memorandum regarding coordination on jurisdictional determinations, this isolated water determination was coordinated with the USEPA Region 5 and the Corps Headquarters, with coordination completed on September 12, 2022 and August 24, 2022, respectively.

This jurisdictional verification is valid for a period of five (5) years from the date of this letter unless new information warrants revision of the delineation prior to the expiration date. This letter contains an approved JD for the subject site within the approved JD boundary. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR 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 determination you must submit a

completed RFA form to the Great Lakes and Ohio River Division Office at the following address:

Regulatory Administrative Appeals Officer United States Army Corps of Engineers Great Lakes and Ohio River Division 550 Main Street, Room 10780 Cincinnati, Ohio 45202-3222 Phone: (513) 684-2699 Fax: (513) 684-2460

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 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this letter.

This determination has been conducted to identify the limits of the Corps' Section 404 jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are United States Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

A copy of this letter will be provided to the Ohio Environmental Protection Agency and your agent, Heather Dardinger with EMH&T, Inc. If you have any questions concerning the above, please contact Kayla Osborne of the North Branch at 304-399-5850, by mail at the above address, or by email at kayla.n.osborne@usace.army.mil.

Sincerely,

1-

Andrew J. Wendt Regulatory Project Manager North Branch

Enclosures

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 13 September 2022

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

Dick Roggenkamp New Albany Company 800 Walton Parkway, Suite 120 New Albany, Ohio 43054

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

Huntington District, Clover Valley Road JD, LRH-2022-424-SCR-Blacklick Creek

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Ohio County/parish/borough: Licking City: Jersey Township Center coordinates of site (lat/long in degree decimal format): Lat.: 40.103135 Long.: -82.720736 Universal Transverse Mercator: (X) 353024.898482, (Y) 4440625.719466 Name of nearest waterbody: Blacklick Creek

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

Office (Desk) Determination. Date: 13 September 2022
 Field Determination. Date:

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non- wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Stream 1	40.102325	-82.729305	3,329 linear feet	Non-Wetland	Section 404
Stream 2	40.100869	-82.723334	54 linear feet	Non-Wetland	Section 404
Stream 3	40.104409	-82.712978	588 linear feet	Non-Wetland	Section 404
Wetland K	40.101283	-82.722655	0.20 acre	Wetland	Section 404
Wetland L	40.100689	-82.722583	1.15 acres	Wetland	Section 404
Wetland R	40.104640	-82.711724	5.53 acres	Wetland	Section 404
Wetland S	40.104620	-82.712561	0.20 acre	Wetland	Section 404
Wetland V	40.102475	-82.713610	0.25 acre	Wetland	Section 404

- The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items: <i>Clover Valley Road 515-Acre Site Investigation of Waters of the United States</i> dated 23 May 2022 completed by EMH&T, Inc. (JD, May 2022) and additional information submitted on 8 August 2022 (JD, Aug 2022)
Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: Exhibit 1 – Location Map (JD, May 2022)
 Data sheets prepared/submitted by or on behalf of the PJD requestor. Appendix B – USACE Wetland and Upland Data Forms (JD, May 2022) Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Rationale:
 Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas:
 USGS NHD data. NHD Map (LRD Regulatory Viewer) USGS 8 and 12 digit HUC maps. 05060001 – Upper Scioto River, 05040006 – Muskingum River, 050400060301 – Headwaters Raccoon Creek, 050600011307 – Duncan Run, and 050600011503 – Headwaters Blacklick Creek
 U.S. Geological Survey map(s). Cite scale & quad name: USGS 1:24K – Jersey and Exhibit 2 – USGS Topographic Map (JD, May 2022) Natural Resources Conservation Service Soil Survey. Citation: Exhibits 3A and 3B – Soil Survey
 Map (JD, May 2022) National wetlands inventory map(s). Cite name: Exhibit 5 – National Wetlands Inventory Map (JD, May 2022)
 State/local wetland inventory map(s): FEMA/FIRM maps: Exhibit 4 – Flood Insurance Rate Map (JD, May 2022) 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
 Photographs: Aerial (Name & Date): Exhibit 6 – Delineation Map (JD, Aug 2022) or Other (Name & Date): Photographs (JD, May 2022) and Additional Photographs (JD, Aug 2022)
Previous determination(s). File no. and date of response letter: Other information (please specify):
IMPORIANT NOTE: The information recorded on this form has not necessarily

been verified by the Corps and should not be relied upon for later jurisdictional determinations.

la astorne 9/13/22

Signature and date of Regulatory staff member completing PJD Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

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): September 13, 2022

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: LRH-2022-424-SCR

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: OhioCounty/parish/borough: Licking CountyCity: Jersey TownshipCenter coordinates of site (lat/long in degree decimal format): Lat. 40.103135°, Long. -82.720736°

Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Blacklick Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Scioto River and Muskingum River Name of watershed or Hydrologic Unit Code (HUC): 05060001 – Upper Scioto River and 05040006 – Muskingum River

- 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. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

- ✓ Office (Desk) Determination. Date: August 10, 2022
- Field Determination. Date(s):

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:

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 approved JD review area contains 18 geographically isolated wetlands (Wetlands A-J, M-Q, T-U, and Z [14.46 acres]) and five (5) geographically isolated ponds (Ponds 1-5 [3.57 acres]). Wetlands A-J, M-Q, T-U, and Z and Ponds 1-5 are surrounded by uplands and do not exhibit a distinct surface water connection to a water of the United States. Wetlands A-J, M-Q, T-U, and Z and Ponds 1-5 would not support interstate or foreign commerce interests, nor does they contain any rare, threatened, or endangered species. Blacklick

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.

Creek is located approximately 60 linear feet north of Wetland A, 140 linear feet north of Wetland B, 512 linear feet north of Wetland C, 354 linear feet north of Wetland D, 530 linear feet north of Wetland E, 1,117 linear feet north of Wetland F, 793 linear feet north of Wetland G, 2,389 linear feet north of Wetland H, 1,755 linear feet north of Wetland I, 532 linear feet east of Wetland J, 673 linear feet south of Wetland N, 972 linear feet south of Wetland N, 958 linear feet south of Wetland O, 798 linear feet south of Wetland P, and 1,528 linear feet south of Wetland Q. Duncan Run is located approximately 1,291 linear feet north of Wetland T. An unnamed tributary to Raccoon Creek is located approximately 1,055 linear feet east of Wetland U. Therefore, Wetlands A-J, M-Q, T-U, and Z and Ponds 1-5 are not jurisdictional waters of the United States.

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, 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: Drainage area:

> Average annual rainfall: inches Average annual snowfall: inches

- (ii) Physical Characteristics:
 - (a) <u>Relationship with TNW:</u>
 - Tributary flows directly into TNW.
 - Tributary flows through tributaries before entering TNW.

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

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

(b) <u>General Tributary Characteristics (check all that apply):</u> **Tributary** is: Natural

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.

	Artificial (man-made). Explain:							
	Manipulated (man-altered). Explain:							
	Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes:							
	Primary tributary substrate composition (check all that apply):							
	Cobbles Gravel Muck							
	Bedrock Vegetation. Type/% cover:							
	Other. Explain:							
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: Tributary geometry: Tributary gradient (approximate average slope): %							
(c)	Flow: Tributary provides for: Estimate average number of flow events in review area/year: Describe flow regime: Other information on duration and volume:							
	Surface flow is: Characteristics:							
	Subsurface flow: Explain findings: Dye (or other) test performed:							
	Tributary has (check all that apply): Bed and banks							
	OHWM ⁶ (check all indicators that apply):							
	clear, natural line impressed on the bank the presence of litter and debris							
	changes in the character of soil destruction of terrestrial vegetation							
	shelving the presence of wrack line							
	vegetation matted down, bent, or absent sediment sorting							
	leaf litter disturbed or washed away scour							
	sediment deposition multiple observed or predicted flow events							
	abrupt change in plant community							
	Other (list):							
	Discontinuous OH w M. ' Explain:							
	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;							
	physical markings/characteristics vegetation lines/changes in vegetation types.							
	tidal gauges							
	other (list):							
(iii) Che	emical Characteristics:							
Cha Ider	uracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: ntify specific pollutants, if known:							

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

Riparian corridor. Characteristics (type, average width):

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.

- 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: Explain:

Surface flow is: Characteristics:

Subsurface flow: 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 river miles from TNW. Project waters are aerial (straight) miles from TNW. Flow is from:

Estimate approximate location of wetland as within the 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: 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):

- 1. 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: acre.

2. RPWs that flow directly or indirectly into TNWs.

- 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):
 - Tributary waters: linear feet width (ft).
 - Other non-wetland waters: acres.
 - 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:

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: 3.57 acres. Ponds 1-5
- Other non-wetland waters: acres. List type of aquatic resource:.
- Wetlands: 14.46 acres. Wetlands A-J, M-Q, T-U, and Z

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 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): Clover Valley Road 515-Acre Site Investigation of Waters of the United States dated 23 May 2022 completed by EMH&T, Inc. (JD, May 2022) and additional information submitted on 8 August 2022 (JD, Aug 2022)
 Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Exhibit 1 Location Map (JD, May 2022)
 - Data sheets prepared/submitted by or on behalf of the applicant/consultant. Appendix B USACE Wetland and Upland Data Forms (JD, May 2022)
 - 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. NHD Map (LRD Regulatory Viewer)
 - ✓ USGS 8 and 12 digit HUC maps. 05060001 Upper Scioto River, 05040006 Muskingum River, 050400060301 Headwaters Raccoon Creek, 050600011307 Duncan Run, and 050600011503 Headwaters Blacklick Creek
 - U.S. Geological Survey map(s). Cite scale & quad name: USGS 1:24K Jersey and Exhibit 2 USGS Topographic Map (JD, May 2022)
 - USDA Natural Resources Conservation Service Soil Survey. Citation: Exhibits 3A and 3B Soil Survey Map (JD, May 2022)
 - ▼ National wetlands inventory map(s). Cite name: Exhibit 5 National Wetlands Inventory Map (JD, May 2022)
 - State/Local wetland inventory map(s):
 - FEMA/FIRM maps: Exhibit 4 Flood Insurance Rate Map (JD, May 2022)
 - 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
 - Photographs: 🔽 Aerial (Name & Date): Exhibit 6 Delineation Map (JD, Aug 2022)
 - or Vother (Name & Date): Photographs (JD, May 2022) and Additional Photographs (JD, Aug 2022)
 - Previous determination(s). File no. and date of response letter:
 - Applicable/supporting case law:
 - Applicable/supporting scientific literature:
 - Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD:

US Army Corps of Engineers Huntington District Website

/ Missions / Regulatory / Public Notices

Public Notices by Year

Disclaimer

<u>2022 (39)</u>

- <u>2021 (29)</u>
- <u>2020 (50)</u>
- <u>2019 (47)</u>

<u>2018 (30)</u>

- **2017 (53)**
- <u>2016 (46)</u>
- 2015 (27)
- **2014 (55)**
- <u>2013 (40)</u>
- **2012 (46)**

The below listed documents may not be readable via Optical Character Recognition. To receive public notices via email for the **Huntington District Regulatory Division** please send an email to <u>LRH.Permits@usace.army.mil</u> indicating that you would like to be placed on the public notice electronic distribution list. Your email should include which state(s) **Ohio** and/or **West Virginia** in which you would like to receive public notices.

LRH 2022-950-SCR

CELRH-RDN

Published Dec. 12, 2022 / Expiration date: 1/12/2023

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TO WHOM IT MAY CONCERN: The following application has been submitted to the United States Army Corps of Engineers' (Corps) Huntington District for a Department of the Army (DA) Permit under the provisions of Section 404 of the Clean Water Act.

APPLICANT: Mr. Brent Bradbury

MBJ Holdings, LLC

8000 Walton Pkwy, Ste 120

New Albany, Ohio 43054

LOCATION: As depicted on the attached Sheet 1 of 2, the proposed project would be located within the watershed of the Scioto River (40.103135 Latitude, -82.720736 Longitude) east and west of Clover Valley Road, north of Jug Street, and south of Miller Road in the City of New Albany, Licking County, Ohio. The waters on-site flow to Duncan Run, an indirect tributary to the Scioto River, a navigable water of the United States.

DESCRIPTION OF PROPOSED WORK: The applicant has requested a DA authorization to discharge 10,605 cubic yards of dredged and/or fill material into 6.51 acres of five (5) forested wetlands and 563 linear feet (0.063 acre) of one (1) intermittent stream (Duncan Run) in conjunction with the construction of the proposed New Albany Tech Park Project as depicted on the attached Sheet 2 of 2 and Table 1.0 below. Additionally, the applicant is seeking an Isolated Wetlands Permit from the Ohio Environmental Protection Agency to discharge fill material into 8.60 acres of 18 isolated wetlands that are not subject to regulation under Section 404 of the Clean Water Act. The proposed project would also result in the discharge of fill material into 3.57 acres of five (5) nonjurisdictional ponds that are not subject to regulation under Section 404 of the Clean Water Act. The industrial business development would include the construction of multiple warehouses, a flex office, and maintenance/manufacturing buildings for advanced technology manufacturers and users. The industrial park is anticipated to provide approximately five (5) million square feet of occupiable building space along with associated parking areas, paved storage areas, site entrances and drives, stormwater facilities, and associated infrastructure. The proposed development is anticipated to be occupied by companies supporting and supplying the Intel semiconductor manufacturing facility to the north. The proposed development would also support the existing New Albany International Business Park by providing locations for expansion by existing businesses and sites for new companies that complement existing uses.

ALTERNATIVES ANALYSIS: As a result of the proposal, fill material would be discharged into 6.51 acres of five (5) forested wetlands and 563 linear feet (0.11 acre) of one (1) intermittent stream (Duncan Run) as described above. The project does not require access or proximity to or siting within special aquatic sites to fulfill its basic purpose and is considered a non-water dependent activity. The Section 404(b)(1) Guidelines state for non-water dependent activities, practicable alternatives that do not involve special aquatic sites are presumed to be available, unless clearly demonstrated otherwise. The applicant is required to provide an alternatives analysis

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that must overcome this presumption prior to receiving authorization for the discharge of dredged and/or fill material. No permit will be issued until our review of the alternative analysis clearly demonstrates that

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AVOIDANCE AND MINIMIZATION: In evaluating a project area containing waters of the United States, consideration must be given to avoiding impacts on these sites. If waters of the United States cannot be avoided, then the impacts must be minimized. A total of 7.33 acres of five (5) forested wetlands, 3,892 linear feet of two (2) intermittent streams, and 54 linear feet of one (1) ephemeral stream are located within the proposed project area and are waters of the United States. The applicant has proposed to avoid 0.82 acre (71%) of one (1) forested wetland, 3,329 linear feet (100%) of one (1) intermittent stream, and 54 linear feet (100%) of one (1) ephemeral stream. The applicant has avoided and minimized impacts to waters of the United States to the maximum extent practicable. The project area also includes a total of 14.46 acres of 18 isolated forested wetlands and 3.57 acres of five (5) non-jurisdictional ponds. The applicant has avoided 5.86 acres of three (3) isolated forested wetlands. Stormwater management planning would incorporate best management practices and water pollution controls necessary to maintain compliance with the Federal Water Pollution Control Act and Ohio Water Pollution Control Act. Stormwater management and erosion control systems would be implemented during construction. All disturbed areas would be seeded and/or revegetated with native plant species and native seed mixes after completion of construction activities.

COMPENSATORY MITIGATION PLAN (CMP): To compensate for the loss of waters of the United States associated with the proposed project, the applicant proposes to purchase 16.3 acres of forested wetland mitigation credits from a federally approved mitigation bank or in-lieu fee program and 844.5 linear feet of stream credits from the Avis Road Pooled Stream Mitigation Site. The applicant's CMP is currently under review. After review of all the submitted information, the Corps will make a determination of the appropriate compensatory mitigation in the event a decision is made to issue a DA authorization.

WATER QUALITY CERTIFICATION: The applicant must obtain a Section 401 Water Quality Certification (WQC) from the Ohio Environmental Protection Agency assuring that applicable laws and regulations pertaining to water quality are not violated. A DA permit, if otherwise warranted, would not be issued for this project until the Section 401 WQC has been issued or waived and the 401(a)(2) process, if required, as described in the "Clean Water Act Section 401 Certification Rule" (Rule, 85 Federal Register 42,210 [July 13, 2020]) has been completed.

HISTORIC AND CULTURAL RESOURCES: The Corps is required by the National Historic Preservation Act (NHPA) to ensure no federal undertaking, including a Corps' permit action, which may affect historic resources, is commenced before the impacts of such action are considered and the Advisory Council on Historic Preservation and the State Historic Preservation Office (SHPO) are provided an opportunity to comment as required by the NHPA, 36 CFR 800, and 33 CFR 325, Appendix C. A Phase I Cultural Resources Management Survey was conducted by ASC Group, Inc. for a 513-acre study area that included the majority of the New Albany Tech Park permit area. The Phase I survey identified a total of 74 archaeological sites. One (1) prehistoric site (33LI3303) was identified as a Hopewell camp. A Phase IB investigation was conducted to determine the site's potential for listing on the National Register of Historic Places (NRHP). The site ultimately yielded 14 artifacts but no evidence of features or other potentially significant information was discovered. ASC recommended that no further work is necessary at 33LI3303 or any of the other newly documented prehistoric sites. In addition to the prehistoric sites, 20 sites with historic components and 24 architectural history resources were identified. All of the resources lack significance and as such are not recommended for further work nor eligible for listing on the NRHP. The review failed to identify resources within or immediately adjacent to the permit area that have been listed or that have been determined to be eligible for inclusion on the NRHP. Approximately ten (10) acres of the permit area was not included within the study area of the completed Phase 1 Survey. The applicant has indicated the remainder of the permit area, approximately ten (10) acres, will be subject to Phase 1 investigations. A copy of the completed Phase 1 Survey and the Corps effect determination will be provided to the Ohio SHPO. A copy of this Public Notice will be furnished to the Ohio SHPO and Tribal Nations for their review. Comments concerning archaeological sensitivity of the project area should be based on collected data. No DA permit will be issued until all obligations under Section 106 of the NHPA of 1966 have been fulfilled.

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THREATENED AND ENDANGERED SPECIES: The proposed project is located within the known or historic range of the endangered Indiana bat (*Myotis sodalis*), the threatened northern long-eared bat (*Myotis septentrionalis*), and the proposed endangered tri-colored bat (*Perimyotis subflavus*). The proposed project area is comprised of agriculture fields, forested areas, 21.04 acres of twenty (20) forested wetlands, 0.75 acre of two (2) emergent wetlands, 3,917 linear feet of two (2) intermittent streams, 54 linear feet of one (1) ephemeral stream, and 3.57 acres of five (5) open water features. The proposed project area could provide potential habitat for the Indiana bat, the northern long-eared bat, and the tri-colored bat. A mist net survey was conducted for the majority of the project area and was submitted to the U.S. Fish and Wildlife Service (USFWS) for review on August 23, 2021. The USFWS provided comments and recommendations based on their review of the bat survey on August 24, 2021 (TAILS # 03E15000-2021-TA-2118). The USFWS indicated that, "Tree clearing on the site at any time of the year is unlikely to result in adverse impacts to Indiana bats and will not result in any unauthorized incidental take of northern long-eared bats". The survey excluded approximately 60 acres of forested habitat within the project area. By letter dated 20 October 2022 (Project Code: 2022-0089745), the USFWS indicated the previously unsurveyed area contains a significant amount of bat habitat and requested a summer bat survey be completed to

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determine the presence or absence of threatened and/or endangered bat species. The applicant has indicated a summer bat survey will be completed in 2023. The Corps will make an effect determination on impacts to the

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pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended). No DA permit will be issued until the Corps has verified that all obligations under Section 7 of the Endangered Species Act have been fulfilled.

PUBLIC INTEREST REVIEW AND CUMULATIVE EFFECTS: This application will be reviewed in accordance with 33 CFR 320-332, the Regulatory Program of the Corps, and other pertinent laws, regulations, and executive orders. Our evaluation will also follow the guidelines published by the United States Environmental Protection Agency pursuant to Section 404(b)(1) of the Clean Water Act (40 CFR part 230). The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both the protection and the utilization of important resources. The benefit that reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors that may be relevant to the proposal will be considered, including the cumulative effects thereof; among those factors are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

SOLICITATION OF COMMENTS: The Corps is soliciting comments from the public, federal, state and local agencies and officials, Indian Tribes and other interested parties in order to consider and evaluate the impacts of this proposed activity. For accuracy and completeness of the administrative record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition. Any person may request, in writing, within the comment period specified in the notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Written statements received in this office on or before the expiration date of this Public Notice will become a part of the record and will be considered in the final determination. A permit will be granted unless its issuance is found to be contrary to the public interest.

CLOSE OF COMMENT PERIOD: Comments should be submitted electronically to Mr. Zack Abbott by email at <u>jonathan.z.abbott@usace.army.mil</u>. If the drawings are not yet posted on this website, you may request copies of the drawings via email the Mr. Abbott.

If you do not have internet access, comments may be submitted through the U.S. Postal Service (USPS) to the following address:

United States Army Corps of Engineers, Huntington District

ATTN: CELRH-RDN Public Notice: LRH-2022-950-SCR

502 Eighth Street

Huntington, West Virginia 25701-2070

Copies should only be provided through the USPS when electronic transmission is not possible. Precautionary internal mail handling procedures may be instituted to protect our workforce, which may result in longer than

normal times to process and receive hard copy submissions. To be considered in our evaluation, comments submitted through the USPS should have a postmark dated on, or prior to, the close of the comment period listed on page one (1) of this Public Notice.

Please note names, addresses, and comments submitted in response to this Public Notice become part of our administrative record and, as such, may be available to the public under provisions of the Freedom of Information Act. Thank you for your interest in our nation's water resources. If you have any questions concerning this Public Notice, please contact Mr. Zack Abbott of the North Branch, at 304-399-5336, by mail at the above address, or by email at jonathan.z.abbott@usace.army.mil.

Table 1.0 – Proposed Discharges of Dredged and/or Fill Material into Waters of the United States associated with the New Albany Tech Park Project Site (LRH-2022-950-SCR)

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		Amount Onsite	Proposed			
Δαματίς		Amount Onsite	Impact (linear	Impact		
	 Туре	(linear feet			% Avoided	

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Jucanni	mermittent	וו לשטוב	v		10070
Stream 2	Ephemeral	54 lf	0	NA	100%
Stream 3	Intermittent	563 lf	563 lf	Fill	0%
Wetland K	Forested	0.20 ac	0.20 ac	Fill	0%
Wetland L	Forested	1.15 ac	0.33 ac	Fill	71%
Wetland R	Forested	5.53 ac	5.53 ac	Fill	0%
Wetland S	Forested	0.20 ac	0.20 ac	Fill	0%
Wetland V	Forested	0.25 ac	0.25 ac	Fill	0%

Related Story: LRH 2022-950-SCR Drawings



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CLOVER VALLEY ROAD SITE

Investigation of Waters of the United States The New Albany Company Revised September 8, 2022

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Delineation Map

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1.0 INTRODUCTION

A routine delineation of Waters of the United States, including wetlands, has been conducted by EMH&T for an approximately 442.5-acre study area located east and west of Clover Valley Road, between Jug Street and Miller Road NW in Jersey Township, Licking County, Ohio (Exhibit 1). The approximate center coordinates of the site are 40.103135°, -82.720736°. The majority of the site is located in the Upper Scioto River subbasin (HUC: 05060001-15-03 and 05060001-13-07); the far eastern portion of the site is located in the Licking River subbasin (HUC: 05040006-03-01). The study area is regulated by the U.S. Army Corps of Engineers (USACE) Huntington District. This study was performed at the request of and for the exclusive use of The New Albany Company.

The study area consists of active agricultural fields, forested woodlots and fencerows, scrub-shrub habitat, and maintained residential properties. Several rural residential properties are located within the study area, which are situated north of Jug Street, west of Clover Valley Road, and west of Mink Street.

Field investigations of the site were conducted in March and April 2022 by EMH&T environmental scientists. Potential surface water features were identified for confirmation by the USACE. The location and extent of the identified surface water features are summarized in the following sections. The boundaries identified by EMH&T are potential, as only the USACE has the final authority to determine whether a wetland or water is jurisdictional.

2.0 LITERATURE REVIEW

A review was made of available topographic maps, soils maps, and wetland inventory maps. This information helped determine topography and soil types present in the study area. It also identified any previously mapped wetlands and whether any portions of the study area were located within mapped floodways.

2.1 Topographic Features

As shown on Exhibit 2, the majority of the study area lies between approximately 1,160 feet and 1,200 feet in elevation (National Geodetic Vertical Datum) according to the United States Geological Survey (USGS) 7.5' Series *Jersey*, *Ohio* quadrangle (USGS, 1975). One stream (Blacklick Creek) and two (2) open water ponds are mapped within the study area.

2.2 Mapped Soils

According to the online Soil Survey Geographic Database for Licking County, Ohio (United States Department of Agriculture [USDA] - Natural Resources Conservation Service [NRCS], 2019) (Exhibit 3A), six (6) soils are mapped for the study area. The mapped soils are listed in Table 1 along with their hydric status. The historical Soil Survey of Licking County, Ohio (USDA, 1992), depicts three (3) streams (Blacklick Creek and two small tributaries) and two (2) open water ponds within the study area (Exhibit 3B).



Mapped Soil Unit	Map Unit Symbol	Hydric Status	Hydric Inclusions (%)	Location of Hydric Inclusions
Bennington silt loam, 0 to 2 percent slopes	BeA	Non-hydric with hydric inclusions	Condit (5%) Pewamo (3%)	Drainageways, depressions
Bennington silt loam, 2 to 6 percent slopes	BeB	Non-hydric with hydric inclusions	Condit (3%) Pewamo (3%)	Drainageways, depressions
Centerburg silt loam, 2 to 6 percent slopes	Cen1B1	Non-hydric with hydric inclusions	Condit (4%) Marengo (3%)	Drainageways, depressions
Centerburg silt loam, 6 to 12 percent slopes, eroded	Cen1C2	Non-hydric with hydric inclusions	Condit (4%)	Drainageways
Condit silt loam, 0 to 1 percent slopes	Cn	Hydric		
Pewamo silty clay loam, low carbonate till, 0 to 2 percent slopes	Pe	Hydric		

TABLE 1 Onsite Mapped Soils

A hydric soil is a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (USDA-NRCS, 2018). As shown on the Web Soil Survey for Licking County, Ohio (Exhibit 3A), Condit silt loam, 0 to 1 percent slopes (Cn) and Pewamo silty clay loam, low carbonate till, 0 to 2 percent slopes (Pe) are hydric soils. The remaining four (4) mapped soils are non-hydric soils with inclusions of Condit, Pewamo and Marengo soils in drainageways and depressions.

2.3 Hydrologic Conditions

As shown on Exhibit 4, the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) was reviewed for the study area (FEMA, 2007). The majority of the study area lies within Zone X (unshaded), which are areas mapped outside the 500-year floodplain. A limited area along Stream 1 (Blacklick Creek) is mapped as Zone A, the 100-year floodplain.

The United States Fish and Wildlife Service's (USFWS) National Wetlands Inventory Map (NWI) was also reviewed for the study area (USFWS, 2009). As shown on Exhibit 5, 22 features were mapped partially or entirely within the study area, including:

- Eleven (11) palustrine, forested, broad-leaved deciduous, seasonally flooded wetlands (PFO1C);
- Four (4) palustrine, emergent, persistent, seasonally flooded wetlands (PEM1C);
- Three (3) palustrine, unconsolidated bottom, intermittently exposed, excavated ponds (PUBGx); and
- Two (2) riverine, unknown perennial, unconsolidated bottom, permanently flooded streams (R5UBH).

3.0 DELINEATION INVESTIGATION RESULTS

EMH&T conducted field investigations of the study area in March and April 2022 to determine the location, extent, and quality of potential Waters of the United States, including wetlands. The investigative methodology employed is summarized in Appendix A.


As shown on Exhibit 6, 23 potential wetlands, three (3) streams, and five (5) open water ponds (or portions thereof) were identified within the study area. Table 2 lists the extent of the surface water features identified and Table 3 summarizes the jurisdictional classification of each surface water feature. The USACE wetland and upland data forms are provided in Appendix B. Photographs of the surface water features are included in the Photographs section.

3.1 Potential Jurisdictional Features

Federal jurisdiction over various classes of water resources under the Clean Water Act is currently described in regulations (40 CFR 230.3) and USACE guidance (United States Environmental Protection Agency [USEPA] & USACE, 2008) following the United States Supreme Court Decision Rapanos v. United States. Among the classes of water resources subject to federal jurisdiction are traditional navigable waters (TNWs); wetlands adjacent to TNWs; non-navigable tributaries of TNWs that are relatively permanent (i.e., typically flow year-round or have continuous flow at least seasonally); and wetlands that directly abut such relatively permanent tributaries.

Further, federal jurisdiction also covers non-relatively permanent waters (non-navigable tributaries that do not typically flow year round or have continuous flow at least seasonally [3 months]), wetlands adjacent to non-relatively permanent waters and wetlands adjacent to but not directly abutting relatively permanent waters when a fact-specific analysis determines these waters have a "significant nexus" with a traditional navigable water. A significant nexus determination must be done in order to prove a non-relatively permanent water has more than an insubstantial or speculative effect on the chemical, physical and/or biological integrity of a downstream traditional navigable water.

Based on this understanding, the following waters identified within the study area are potentially jurisdictional. However, the definition of Waters of the United States is subject to change, pending ongoing litigation and rule making.

Five (5) potentially jurisdictional wetlands were identified within the study area:

- Wetland K (0.20 acre) is a forested wetland located in the south-central portion of the study area. Wetland K is potentially jurisdictional as it is adjacent to Stream 1, a Relatively Permanent Water (RPW).
- Wetland L (1.15 acres) is a forested wetland located in the south-central portion of the study area. Wetland L is potentially jurisdictional as it directly abuts Stream 2, a non-RPW, which flows directly to Stream 1, a RPW.
- Wetland R (5.53 acres) is a forested wetland located in the eastern portion of the study area. Wetland R is potentially jurisdictional as it directly abuts Stream 3, a RPW.
- Wetland S (0.20 acre) is a forested wetland located between Stream 3 and Wetland R in the eastern portion of the study area. Wetland S is potentially jurisdictional as it is adjacent to Stream 3, a RPW.
- Wetland V (0.25 acre) is a forested wetland located in the eastern portion of the study area, adjacent to Wetland R. Wetland V is potentially jurisdictional as it may flow indirectly to Stream 3, a RPW, via Wetland R.

Three (3) potentially jurisdictional streams were observed within the study area:



- Stream 1 was characterized as an intermittent stream that originates offsite and flows west to northwest for 3,329 linear feet through the western portion of the study area. Stream 1 represents the headwaters of Blacklick Creek, a direct tributary to Big Walnut Creek. Stream 1 primarily exists as an agricultural ditch within the study area. It is located within a narrow, straight, non-forested buffer, to which multiple agricultural drain tiles contribute flow from the surrounding agricultural fields.
- Stream 2 (54 linear feet) is an ephemeral tributary to Stream 1 that originates from Wetland L in the south-central portion of the study area, just east of Clover Valley Road.
- Stream 3 was characterized as an intermittent stream that originates onsite from Wetland R and flows north for 588 linear feet through the eastern portion of the study area within a forested woodlot. Stream 3 represents the headwaters of Duncan Run, a direct tributary to Big Walnut Creek.

3.2 Potential Non-Jurisdictional Features

The remaining 18 wetlands located within the study area are potentially isolated wetlands. These wetlands are potentially non-jurisdictional as they are located within closed depressions, with no observable connection to any other jurisdictional surface water. Two (2) of these wetlands (Wetlands A and B) are located in close proximity to jurisdictional streams, but are hydrologically isolated and do not exhibit a continuous surface connection with the streams, as further described below.

- Wetland A is located approximately 60 feet south of Stream 1 (Blacklick Creek). Stream 1 exists within a confined, entrenched agricultural ditch and does not show evidence of rising outside of that channel. There is no mapped floodplain along Stream 1 near Wetlands A and B, but the mapped 100-year floodplain downstream is very narrow, averaging approximately 20 to 30 feet wide on each stream bank. The area between Wetland A and Stream 1 includes upland forest and upland grassy field. This area exhibited no wetland characteristics, and no dike or berm is present. No evidence of a surface water connection between Wetland A and the stream was observed.
- Wetland B is located approximately 140 feet south of Stream 1, which exists within a confined, entrenched, ditched channel with limited floodplain, as described above. The area between Wetland B and Stream 1 includes upland forest, upland grassy field, and active agricultural field. This area exhibited no wetland characteristics, and no dike or berm is present. No evidence of surface water connection between Wetland B and the stream was observed.

Additionally, five (5) potentially non-jurisdictional ponds are located within the study area (Ponds 1, 2, 3, 4 and 5). The ponds exhibit no observable connections to jurisdictional waters and are not impoundments of jurisdictional waters. They appear to be excavated features located in and surrounded by uplands.



Feature ID	Location		Classification*		Potentiall	v Jurisdictional		Potentially Non-Jurisdictional			
				Stream			Open Water	Isolated Wetland			
	Latitude	Longitude		Length (If)	Area (ac)	Wetland (ac)	(ac)	(ac)	Open Water (ac)	Ditch/Swale (If)	
Stream 1	40.102325°	-82.729305°	Intermittent	3,329**	0.49						
Stream 2	40.100869°	-82.723334°	Ephemeral	54	0.004			1			
Stream 3	40.104409°	-82.712978°	Intermittent	588**	0.11			1			
Wetland A	40.100069°	-82.725895°	PFO					0.64			
Wetland B	40.100283°	-82.727976°	PFO					0.54			
Wetland C	40.100601°	-82.729281°	PFO					0.49			
Wetland D	40.100722°	-82.728347°	PFO					0.05			
Wetland E	40.100013°	-82.727970°	PFO					0.11			
Wetland F	40.099327°	-82.730815°	PEM/PFO					2.04			
Wetland G	40.100439°	-82.730813°	PFO					1.18			
Wetland H	40.096476°	-82.732538°	PFO					0.07			
Wetland I	40.097927°	-82.732040°	PEM					0.32			
Wetland J	40.102890°	-82.733062°	PFO		9-0-0-0			0.92			
Wetland K	40.101283°	-82.722655°	PFO	· · · · · · · · · · · · · · · · · · ·		0.20					
Wetland L	40.100689°	-82.722583°	PFO		11 - 21 44	1.15		1			
Wetland M	40.102300°	-82.722024°	PFO		1			0.38			
Wetland N	40.102681°	-82.721067°	PEM				1	0.19			
Wetland O	40.101979°	-82.720295°	PFO		1000			2.08			
Wetland P	40.100887°	-82.719055°	PFO					1.70**			
Wetland Q	40.100800°	-82.715072°	PFO					2.08			
Wetland R	40.104640°	-82.711724°	PFO			5.53					
Wetland S	40.104620°	-82.712561°	PFO			0.20		1			
Wetland T	40.102563°	-82.710200°	PFO					0.95**			
Wetland U	40.104579°	-82.708713°	PFO					0.48			
Wetland V	40.102475°	-82.713610°	PFO			0.25					
Wetland Z	40.097152°	-82.729675°	PEM					0.24			
Pond 1	40.099698°	-82.725583°	Open Water					· · · · · · · · · · · · · · · · · · ·	0.07		
Pond 2	40.097278°	-82.733608°	Open Water		1 (1)			11	0.41		
Pond 3	40.101663°	-82.723225°	Open Water						0.51		
Pond 4	40.104231°	-82.708828°	Open Water	,	1.1.1			· · · · · · · · · · · · · · · · · · ·	1.90		
Pond 5	40.098001°	-82.730095°	Open Water					· · · · · · · · · · · · · · · · · · ·	0.68		
Total		_	-	3,971	0.604	7.33		14.46	3.57	-	

TABLE 2 Extent of Onsite Surface Water Features

*Wetland communities are classified according to the classification scheme of Cowardin et al. (1979):

PEM: Palustrine, Emergent

PFO: Palustrine, Forested

**Feature continues off-site.



		Wetlands				Ponds		Ditch/		
Feature ID	TNW	RPW	Non-RPW	(A)	(B)	(C)	(D)	Jurisdictional	Isolated	Swale
Stream 1		X								
Stream 2			x							
Stream 3		X	1	1. See 3						100
Wetland A							Х			
Wetland B							X			
Wetland C							Х			
Wetland D							Х			
Wetland E							Х			
Wetland F							Х			
Wetland G				142			Х		1 1 1 1 1	
Wetland H							Х			
Wetland I				1.000			Х		in the second	1
Wetland J							Х			
Wetland K						X			÷	1. See
Wetland L						X				
Wetland M		(. /)					Х			
Wetland N							Х		24-01	
Wetland O				1.44			X			
Wetland P							Х			
Wetland Q							X			
Wetland R		1294		1.44	X				1. (2	
Wetland S				1. ()		X				(
Wetland T				19 <u>4</u>			X		 1.	
Wetland U							Х			
Wetland V						X			- 44	i en la companya de
Wetland Z							Х			
Pond 1									Х	
Pond 2		1							X	
Pond 3									Х	
Pond 4									X	
Pond 5									Х	

 TABLE 3

 Jurisdictional Classification of Onsite Surface Water Features

TNW: Traditional Navigable Water

RPW: Relatively Permanent Waters (non-navigable tributaries that flow year-round or at least seasonally [3 months]) Non-RPW: Non-Relatively Permanent Waters (non-navigable tributaries without at least seasonal flow [3 months]) Wetlands: (A) Abutting or adjacent to a TNW; (B) Abutting a RPW; (C) Located adjacent to a RPW or Non-RPW; (D) Isolated



4.0 **REGULATORY JURISDICTION**

Impacts to Waters of the United States, including jurisdictional streams and wetlands, are regulated by the USACE and the USEPA through Section 404 of the Clean Water Act (33 U.S.C. 1344). Prior to federal authorization for impacts to streams or wetlands, certification must also be obtained from the Ohio EPA as defined in Section 401 of the Clean Water Act (33 U.S.C. 1341). Accordingly, no filling may occur in the potentially jurisdictional wetlands described in this document without appropriate permits and authorization from the USACE and Ohio EPA.

The Ohio EPA regulates discharges of fill to isolated wetlands in the State of Ohio as provided in Sections 6111.021 through 6111.029 of the Ohio Revised Code. Accordingly, no filling may occur in isolated wetlands without an appropriate Isolated Wetland Permit from the state. Additionally, confirmation of non-jurisdictional status must first be obtained through an Approved Jurisdictional Determination by the USACE.

5.0 CONCLUSIONS

A routine delineation of Waters of the United States, including streams and wetlands, was conducted and a report was prepared by EMH&T for the Clover Valley Road Site study area. The approximately 442.5-acre study area is located east and west of Clover Valley Road between Jug Street and Miller Road NW, in Jersey Township, Licking County, Ohio. This study was performed at the request of and for the exclusive use of The New Albany Company.

The results of the delineation identified three (3) potentially jurisdictional streams (3,971 LF), five (5) potentially jurisdictional wetlands (7.33 acres), eighteen (18) potentially non-jurisdictional (isolated) wetlands (14.46 acres), and five (5) potentially non-jurisdictional ponds (3.57 acres) within the study area boundaries. The boundaries and jurisdictional status of the surface water features are potential until verified by the USACE.



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EXHIBITS



Path: J:\20220326\GIS__REVISED_Map_July2022\Exhibit 1 - Location Map.mxd









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emht.com







PHOTOGRAPHS





Photograph 1 View of Wetland A facing north. (EMH&T 4/13/22)



Photograph 2 View of Wetland A facing south. (EMH&T 4/13/22)





Photograph 3 View of Wetland A facing east. (EMH&T 4/13/22)



Photograph 4 View of Wetland A facing west. (EMH&T 4/13/22)





Photograph 5 View of Wetland B facing north. (EMH&T 4/13/22)



Photograph 6 View of Wetland B facing south. (EMH&T 4/13/22)





Photograph 7 View of Wetland B facing east. (EMH&T 4/13/22)



Photograph 8 View of Wetland B facing west. (EMH&T 4/13/22)





Photograph 9 View of Wetland C facing north. (EMH&T 4/13/22)



Photograph 10 View of Wetland C facing south. (EMH&T 4/13/22)





Photograph 11 View of Wetland C facing east. (EMH&T 4/13/22)



Photograph 12 View of Wetland C facing west. (EMH&T 4/13/22)





Photograph 13 View of Wetland D facing north. (EMH&T 4/19/22)



Photograph 14 View of Wetland D facing south. (EMH&T 4/19/22)





Photograph 15 View of Wetland D facing east. (EMH&T 4/19/22)



Photograph 16 View of Wetland D facing west. (EMH&T 4/19/22)





Photograph 17 View of Wetland E facing north. (EMH&T 4/19/22)



Photograph 18 View of Wetland E facing south. (EMH&T 4/19/22)





Photograph 19 View of Wetland E facing east. (EMH&T 4/19/22)



Photograph 20 View of Wetland E facing west. (EMH&T 4/19/22)





Photograph 21 View of Wetland F facing north. (EMH&T 4/19/22)



Photograph 22 View of Wetland F facing south. (EMH&T 4/19/22)





Photograph 23 View of Wetland F facing east. (EMH&T 4/19/22)



Photograph 24 View of Wetland F facing west. (EMH&T 4/19/22)





Photograph 25 View of Wetland G facing north. (EMH&T 4/19/22)



Photograph 26 View of Wetland G facing south. (EMH&T 4/19/22)





Photograph 27 View of Wetland G facing east. (EMH&T 4/19/22)



Photograph 28 View of Wetland G facing west. (EMH&T 4/19/22)





Photograph 29 View of Wetland H facing north. (EMH&T 4/19/22)



Photograph 30 View of Wetland H facing south. (EMH&T 4/19/22)





Photograph 31 View of Wetland H facing east. (EMH&T 4/19/22)



Photograph 32 View of Wetland H facing west. (EMH&T 4/19/22)





Photograph 33 View of Wetland I facing north. (EMH&T 4/19/22)



Photograph 34 View of Wetland I facing south. (EMH&T 4/19/22)





Photograph 35 View of Wetland I facing east. (EMH&T 4/19/22)



Photograph 36 View of Wetland I facing west. (EMH&T 4/19/22)





Photograph 37 View of Wetland J facing north. (EMH&T 4/13/22)



Photograph 38 View of Wetland J facing south. (EMH&T 4/13/22)





Photograph 39 View of Wetland J facing east. (EMH&T 4/13/22)



Photograph 40 View of Wetland J facing west. (EMH&T 4/13/22)





Photograph 41 View of Wetland K facing north. (EMH&T 4/14/22)



Photograph 42 View of Wetland K facing south. (EMH&T 4/14/22)




Photograph 43 View of Wetland K facing east. (EMH&T 4/14/22)



Photograph 44 View of Wetland K facing west. (EMH&T 4/14/22)





Photograph 45 View of Wetland L facing north. (EMH&T 4/14/22)



Photograph 46 View of Wetland L facing south. (EMH&T 4/14/22)





Photograph 47 View of Wetland L facing east. (EMH&T 4/14/22)



Photograph 48 View of Wetland L facing west. (EMH&T 4/14/22)





Photograph 49 View of Wetland M facing north. (EMH&T 4/14/22)



Photograph 50 View of Wetland M facing south. (EMH&T 4/14/22)





Photograph 51 View of Wetland M facing east. (EMH&T 4/14/22)



Photograph 52 View of Wetland M facing west. (EMH&T 4/14/22)





Photograph 53 View of Wetland N facing north. (EMH&T 4/20/22)



Photograph 54 View of Wetland N facing south. (EMH&T 4/20/22)





Photograph 55 View of Wetland N facing east. (EMH&T 4/20/22)



Photograph 56 View of Wetland N facing west. (EMH&T 4/20/22)





Photograph 57 View of Wetland O facing north. (EMH&T 4/14/22)



Photograph 58 View of Wetland O facing south. (EMH&T 4/14/22)





Photograph 59 View of Wetland O facing east. (EMH&T 4/14/22)



Photograph 60 View of Wetland O facing west. (EMH&T 4/14/22)





Photograph 61 View of Wetland P facing north. (EMH&T 4/14/22)



Photograph 62 View of Wetland P facing south. (EMH&T 4/14/22)





Photograph 63 View of Wetland P facing east. (EMH&T 4/14/22)



Photograph 64 View of Wetland P facing west. (EMH&T 4/14/22)





Photograph 65 View of Wetland Q facing north. (EMH&T 4/14/22)



Photograph 66 View of Wetland Q facing south. (EMH&T 4/14/22)





Photograph 67 View of Wetland Q facing east. (EMH&T 4/14/22)



Photograph 68 View of Wetland Q facing west. (EMH&T 4/14/22)





Photograph 69 View of Wetland R facing north. (EMH&T 4/15/22)



Photograph 70 View of Wetland R facing south. (EMH&T 4/15/22)





Photograph 71 View of Wetland R facing east. (EMH&T 4/15/22)



Photograph 72 View of Wetland R facing west. (EMH&T 4/15/22)





Photograph 73 View of Wetland S facing north. (EMH&T 3/09/22)



Photograph 74 View of Wetland S facing south. (EMH&T 3/09/22)





Photograph 75 View of Wetland S facing east. (EMH&T 3/09/22)



Photograph 76 View of Wetland S facing west. (EMH&T 3/09/22)





Photograph 77 View of Wetland T facing north. (EMH&T 3/03/22)



Photograph 78 View of Wetland T facing south. (EMH&T 3/03/22)





Photograph 79 View of Wetland T facing east. (EMH&T 3/03/22)



Photograph 80 View of Wetland T facing west. (EMH&T 3/03/22)





Photograph 81 View of Wetland U facing north. (EMH&T 3/02/22)



Photograph 82 View of Wetland U facing south. (EMH&T 3/02/22)





Photograph 83 View of Wetland U facing east. (EMH&T 3/02/22)



Photograph 84 View of Wetland U facing west. (EMH&T 3/02/22)





Photograph 85 View of Wetland V facing north. (EMH&T 4/22/22)



Photograph 86 View of Wetland V facing south. (EMH&T 4/22/22)





Photograph 87 View of Wetland V facing east. (EMH&T 4/22/22)



Photograph 88 View of Wetland V facing west. (EMH&T 4/22/22)





Photograph 89 View of Wetland Z facing north. (EMH&T 5/20/22)



Photograph 90 View of Wetland Z facing south. (EMH&T 5/20/22)





Photograph 91 View of Wetland Z facing east. (EMH&T 5/20/22)



Photograph 92 View of Wetland Z facing west. (EMH&T 5/20/22)





Photograph 93 View of Stream 1 (Blacklick Creek) facing upstream (west of Clover Valley Road). (EMH&T 4/19/22)



Photograph 94 View of Stream 1 (Blacklick Creek) facing downstream (west of Clover Valley Road). (EMH&T 4/19/22)





Photograph 95 View of Stream 1 (Blacklick Creek) substrate (west of Clover Valley Road). (EMH&T 4/19/22)



Photograph 96 View of Stream 1 (Blacklick Creek) facing upstream (east of Clover Valley Road). (EMH&T 4/20/22)





Photograph 97 View of Stream 1 (Blacklick Creek) facing downstream (east of Clover Valley Road). (EMH&T 4/20/22)



Photograph 98 View of Stream 1 (Blacklick Creek) substrate (east of Clover Valley Road). (EMH&T 4/20/22)





Photograph 99 View of Stream 2 facing upstream. (EMH&T 4/14/22)



Photograph 100 View of Stream 2 facing downstream. (EMH&T 4/14/22)





Photograph 101 View of Stream 2 substrate. (EMH&T 4/14/22)



Photograph 102 View of Stream 3 (Duncan Run) facing upstream. (EMH&T 3/02/22)





Photograph 103 View of Stream 3 (Duncan Run) facing downstream. (EMH&T 3/02/22)



Photograph 104 View of Stream 3 (Duncan Run) substrate. (EMH&T 3/02/22)





Photograph 105 View of Pond 1 facing southeast. (EMH&T 4/13/22)



Photograph 106 View of Pond 1 facing east. (EMH&T 4/13/22)





Photograph 107 View of Pond 1 facing northeast. (EMH&T 4/13/22)



Photograph 108 View of Pond 2 facing southwest. (EMH&T 4/19/22)





Photograph 109 View of Pond 2 facing southeast. (EMH&T 4/19/22)



Photograph 110 View of Pond 2 facing east. (EMH&T 4/19/22)





Photograph 111 View of Pond 3 facing west. (EMH&T 4/14/22)



Photograph 112 View of Pond 3 facing northwest. (EMH&T 4/14/22)

Delineation Photograph Log





Photograph 113 View of Pond 3 facing north. (EMH&T 4/14/22)



Photograph 114 View of Pond 4 facing west. (EMH&T 3/02/22)




Photograph 115 View of Pond 4 facing north. (EMH&T 3/02/22)



Photograph 116 View of Pond 4 facing east. (EMH&T 3/02/22)





Photograph 117 View of Pond 5 facing southeast. (EMH&T 5/20/22)

Delineation Photograph Log



APPENDIX A:

Investigative Methodology



INVESTIGATIVE METHODOLOGY

Wetlands

According to the Federal Register (1980; 1982), wetlands are defined as Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Potential wetlands located on non-agricultural lands are identified using the 1987 Wetland Delineation Manual (Environmental Laboratory, 1987) for confirmation by the U.S. Army Corps of Engineers (USACE).

Under normal site conditions, all three (3) indicators of jurisdictional wetlands including the presence of hydrophytic macrophytes, hydric soils and certain hydrologic indicators must be identified to meet the criteria for a jurisdictional wetland (Environmental Laboratory, 1987). As such, identification of potential wetlands requires characterization of plant community types, identification of hydric soils, and hydrologic indicators for each community type.

For all potential wetland areas, dominant species in the tree, sapling, shrub, woody vine, and herb layers are determined, in accordance with the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, Version 2.0 (USACE, 2010). Recorded vegetative data consists of herbs with the greatest percentage of aerial cover within 5' of the plot center. Within a 15' radius of the plot center, saplings and shrubs with the greatest height are recorded. Within a 30' radius of the plot center, trees with the largest relative basal area and woody vines with the greatest number of stems are recorded. Species within each of these layers are listed on data forms in order of dominance.

Dominance is determined for each stratum individually. Dominant species include those that comprise 50 percent of the total dominance measure for a stratum, plus any additional species comprising 20 percent or more of the total dominance measure of a stratum. Hydrophytic vegetation is determined to be present when more than 50 percent of the dominants in a sample area are listed as facultative (FAC), facultative wetland (FACW) or obligate wetland (OBL) plants according to Lichvar (2016).

Where possible, soil data are collected by digging a test pit to a maximum depth of 20" to determine the presence of hydric soil. Soil matrix and mottle colors are identified using a Munsell Soil Color Chart (Macbeth, Revised 1994). Evidence of any hydric soil characteristics and evidence of the presence of wetland hydrology are also recorded.

The boundaries of areas that meet all three (3) wetland criteria are identified and measured in the field. Points at which dominant vegetation species changes from wetland to upland, where soils change from hydric to non-hydric, or where indicators of wetland hydrology are no longer observed are noted. The characteristics of each community type are recorded on dataforms and sample points are chosen to represent both an identified potential wetland and its surrounding upland community. All potential wetlands delineated in the field are marked with flagging and mapped using a Trimble GeoXH GPS unit. The dominant vegetation, soils, and indicators of wetland



hydrology are described on delineation forms. Wetland communities are classified according to the classification scheme of Cowardin et al. (1979).

Wetlands are further classified using the Ohio Rapid Assessment Method (ORAM) Version 5 (Ohio EPA, 2001). The ORAM seeks to determine whether wetlands are rated as Category 1, 2, or 3 based on the State of Ohio Wetland Water Quality Standards. Category 1 wetlands exhibit limited quality, function, or value. Category 2 wetlands exhibit moderate quality, function, or value; this includes wetlands that have been degraded but have reasonable potential for restoration (Modified Category 2). Category 3 wetlands are wetlands of superior quality, function, or value.

Streams

The centerline of the streams are mapped for their entire length found on-site using a Trimble[®] GPS unit. Ordinary High Water Marks (OHWM), which define the outermost regulatory boundaries of streams and open waters, are flagged and mapped using the GPs unit.

Streams are classified as ephemeral, intermittent, or perennial based on site observations, and are assigned a regulatory classification according to the most recent USACE guidance. Streams are also assessed using the Ohio EPA's Qualitative Habitat Evaluation Index (QHEI) and/or Headwater Habitat Evaluation Metric (HHEI). Assessment locations are placed in representative reaches of the streams within the assessment area.

The QHEI is used for streams with drainage areas greater than one square mile and pools with maximum water depths greater than 15.75 in (40 cm) (Ohio EPA 2006). QHEI scoring is based on substrate types, in-stream cover, channel morphology, riparian quality and bank erosion, pool/glide and riffle/run quality, and gradient. These metrics reflect stream habitat features that are correlated with the potential to attain the aquatic life use designation for Ohio streams.

Streams that do not meet these requirements are assessed using the HHEI (Ohio EPA, 2020). HHEI scoring is based on three (3) parameters that are associated with habitat quality in small headwater streams: substrate type, maximum pool depth and bankfull width. Using the HHEI scoring system, streams may be categorized as Class I, II or III primary headwaters (PHW). Class III represents streams with perennial flow with moderately to highly diverse communities of cold water adapted fauna present year-round; Class II represents streams with intermittent or perennial flow derived from shallow groundwater with moderately diverse communities of warm water adapted fauna present either seasonally or year-round; and Class I represents ephemeral (seasonally dry) streams with limited aquatic life potential.

Open Water Habitat

The boundaries of open water systems (deepwater aquatic habitats, such as ponds and lakes) are delineated either using recent aerial photography or by flagging boundaries in the field and locating them using a GPS unit. Based on the 1987 Wetland Delineation Manual (Environmental Laboratory, 1987), deepwater aquatic habitats are areas that are permanently inundated at mean annual water depths >6.6 ft or permanently inundated areas <6.6 ft in depth that do not support rooted-emergent or woody plant species.



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APPENDIX B:

USACE Wetland and Upland Dataforms

Project/Site: Clover V	/alley I	Road 515-Acre Site	City/Co	unty: New Alba	ny/ Licking		Sampling Date:	4-13-2022
Applicant/Owner:	The N	lew Albany Company			State:	он	Sampling Point:	W-A-24
Investigator(s): Eric N	lagy, E	MH&T	Section,	Township, Range	e: <u>T. 2 N;</u>	R. 15 W		
Landform (hillside, ter	rrace,	etc.): depression		Local relief (con	cave, conve	x, none):	concave	
Slope (%):	Lat:	40.100069°	Long:	-82.725895°			Datum:	
Soil Map Unit Name:	Benni	ngton silt loam (BeB)				NWI class	ification: NA	
Are climatic / hydrolog	gic cor	nditions on the site typical	for this time of year?	Yes X	No	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circ	umstances"	present?	Yes X No) <u> </u>
Are Vegetation	, Soil	, or Hydrology	_naturally problematic?	(If needed, expla	iin any answ	ers in Ren	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_	<u>x</u>	No
Remarks:						

Trop Stratum (Plat size: 20')	Absolute	Dominant Species2	Stotuo	Dominance Test workshoot	
<u>Tree Stratum</u> (Plot size: <u>50</u>)	% Cover			Dominance Test worksneet:	
1. <u>Populas denoides</u>	20			Number of Dominant Species That	A (A)
2. Acer sacchannom	30			Are OBL, FACW, of FAC.	<u>4</u> (A)
4	10			Total Number of Dominant Species Across All Strata:	<u>4</u> (B)
5	100	=Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15')		-			
1. Lindera benzoin	20	Yes	FACW	Prevalence Index worksheet:	
2.				Total % Cover of:Multip	ly by:
3.				OBL species 0 x 1 =	0
4.				FACW species 80 x 2 =	160
5.				FAC species 60 x 3 =	180
	20	=Total Cover		FACU species 0 x 4 =	0
Herb Stratum (Plot size: 5')		-		UPL species 0 x 5 =	0
1. Carex spp.	20	Yes	FACW	Column Totals: 140 (A)	340 (B)
2.				Prevalence Index = B/A = 2.4	43
3.					
3		·		Hydrophytic Vegetation Indicators:	
3				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege	tation
3				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege X 2 - Dominance Test is >50%	tation
3.				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	tation
3.				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Prov	tation vide supporting
3.				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Products of the second	tation vide supporting a sheet)
3.				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provodata in Remarks or on a separate Problematic Hydrophytic Vegetation	vide supporting e sheet) ¹ (Explain)
3.	20	=Total Cover		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Production data in Remarks or on a separate problematic Hydrophytic Vegetation 1 - Roblematic Hydrophytic Vegetation	vide supporting e sheet) ¹ (Explain)
3.	20	=Total Cover		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Veget X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Production data in Remarks or on a separate Problematic Hydrophytic Vegetation ¹ Indicators of hydric soil and wetland hydrophytic vegetation	vide supporting a sheet) ¹ (Explain) drology must be 5.
3.	20	=Total Cover		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Production data in Remarks or on a separate problematic Hydrophytic Vegetation ¹ Indicators of hydric soil and wetland hydrophytic soil and wetland hydrophytic Hydrophytic Hydrophytic	vide supporting a sheet) ¹ (Explain) drology must be c.
3.	20	=Total Cover		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Prov data in Remarks or on a separate Problematic Hydrophytic Vegetation ¹ Indicators of hydric soil and wetland hydrophytic Hydrophytic Vegetation	vide supporting e sheet) ¹ (Explain) drology must be 5.
3.	20	=Total Cover		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Veget X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Production Adaptations) Problematic Hydrophytic Vegetation ¹ Indicators of hydric soil and wetland hydrophytic Vegetation Hydrophytic Vegetation Present? Yes X	vide supporting e sheet) ¹ (Explain) drology must be c.

LIADIO	Matrix		Rode	y Featur	'AS			
(inches)	Color (moist)	%	Color (moist)	<u>% 1 eatur</u>	Type ¹		Texture	Remarks
					<u>- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
0-0	10 TR 3/2	90						
6-12	10YR 4/1	70	10YR 5/6	30	<u> </u>	<u> </u>	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=Co	ncentration, D=Dep	letion, RM	I=Reduced Matrix, M	viS=Masi	ked Sand	Grains.	² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicato	rs for Problematic Hydric Soils ³ :
Histosol ((A1)		Sandy Gle	yed Mat	rix (S4)		<u>?</u> Coa	st Prairie Redox (A16)
Histic Epi	ipedon (A2)		Sandy Red	dox (S5)			Iron-	Manganese Masses (F12)
Black His	itic (A3)		Stripped M	/latrix (S6	5)		Red	Parent Material (F21)
Hydrogen	1 Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Muc	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
X Depleted	Below Dark Surface	э (А11)	X Depleted	Vatrix (F:	3)		2	
	rk Surface (A12)		Redox Da	rk Surfac	æ (F6)		°Indicato	rs of hydrophytic vegetation and
Sandy Mi	ucky Mineral (S1)	.,	Depleted [Jark Surl	face (F7)		wetla	and hydrology must be present,
	wy Peat or Peat (S3	3)		pressions	s (⊢8)		unle	ss disturbed or problematic.
Restrictive L	.ayer (if observed):							
Type:								
Depth (in Remarks: This data forr	ches):	dwest Rec	jional Supplement V	√ersion 2	2.0 to incl	ude the	Hydric Soil Presen	t? Yes X No s of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data forr Errata. (http://	ches): n is revised from Mi /www.nrcs.usda.gov	idwest Reç //Internet/F	gional Supplement \ -SE_DOCUMENTS	Version 2 3/nrcs142	2.0 to incl 2p2_0512	ude the 93.docx	Hydric Soil Presen	t? Yes X No sof Hydric Soils, Version 7.0, 2015
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Project/Site: Clover V	/alley Road	515-Acre Site	c	ity/Co	unty: <u>N</u>	lew Alban	y/ Licking		Sampling Date:	4-13-2022
Applicant/Owner:	The New /	Albany Company					State:	ОН	Sampling Point:	W-B-1
Investigator(s): Eric N	lagy, EMH	ξТ	Sec	ction,	Township	o, Range:	T. 2 N;	R. 15 W		
Landform (hillside, ter	rrace, etc.)	depression			Local re	elief (conc	ave, conve	x, none):	concave	
Slope (%):	Lat: 40.1	00283°	l	_ong:	-82.7270	097			Datum:	
Soil Map Unit Name:	Pewamo s	ilty clay loam (Pe)						NWI class	ification: NA	
Are climatic / hydrolog	gic conditio	ons on the site typica	I for this time of year?		Yes _	x	No	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed	1?	Are "Nor	rmal Circu	mstances"	present?	Yes X No	·
Are Vegetation	, Soil	, or Hydrology	naturally problematic	?	(If neede	ed, explair	n any answ	ers in Ren	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes	<u>x</u>	No
Remarks:						

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Acer saccharinum	90	Yes	FACW	Number of Dominant Species That		
2. Quercus palustris	10	No	FACW	Are OBL, FACW, or FAC:	4	(A)
3				Total Number of Dominant Species Across All Strata:	4	(B)
5	100	=Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0%	_ _(A/B)
1. Lindera benzoin	50	Yes	FACW	Prevalence Index worksheet:		
2.				Total % Cover of: Mult	iply by:	
3.				OBL species 0 x 1 =	0	-
4.				FACW species 165 x 2 =	330	-
5.				FAC species 0 x 3 =	0	-
	50	=Total Cover		FACU species 0 x 4 =	0	
Herb Stratum (Plot size: 5')		-		UPL species 0 x 5 =	0	
1. Cinna arundinacea	10	Yes	FACW	Column Totals: 165 (A)	330	(B)
2. Carex spp.	5	Yes	FACW	Prevalence Index = B/A =	2.00	
3						
4				Hydrophytic Vegetation Indicators:		
5				1 - Rapid Test for Hydrophytic Veg	etation	
6				X 2 - Dominance Test is >50%		
7				X 3 - Prevalence Index is $\leq 3.0^{1}$		
8				4 - Morphological Adaptations ¹ (Pr	ovide sup	porting
9				data in Remarks or on a separa	te sheet)	
10				Problematic Hydrophytic Vegetation	on ¹ (Explai	in)
Woody Vine Stratum (Plot size: 15')	15	_=Total Cover		¹ Indicators of hydric soil and wetland h present, unless disturbed or problema	ydrology i tic.	must be
1				Hydrophytic		
2				Vegetation		
		= I otal Cover		Present? Yes X No		
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

			Reuu	x i eatui		-				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 4/1	90	10YR 4/6	10	С	М	Loamy/Clayey	Promine	ent redox conce	entrations
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Masl	ked Sand	Grains.	² Locatio	on: PL=Pore L	_ining, M=Matri	x .
Hydric Soil	Indicators:						Indicat	ors for Proble	ematic Hydric	Soils ³ :
Histosol	(A1)		Sandy Gle	yed Matr	rix (S4)		<u>?</u> Co	ast Prairie Rec	lox (A16)	
Histic Ep	ipedon (A2)		Sandy Rec	Jox (S5)			Iror	n-Manganese I	Masses (F12)	
Black His	stic (A3)		Stripped M	latrix (S6	6)		Re	d Parent Mater	rial (F21)	
Hydroge	n Sulfide (A4)		Dark Surfa	ice (S7)			Vei	y Shallow Dar	k Surface (F22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Oth	er (Explain in	Remarks)	
2 cm Mu	ck (A10)		Loamy Gle	yed Mat	trix (F2)					
Depleted	Below Dark Surface	(A11)	X Depleted N	Aatrix (F:	3)					
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	æ (F6)		³ Indicat	ors of hydroph	ytic vegetation	and
Sandy M	ucky Mineral (S1)		Depleted D	Jark Surf	face (F7)		wei	and hydrology	y must be pres	ent,
5 cm Mu	cky Peat or Peat (S3))	? Redox Dep	pression	s (F8)		unl	ess disturbed	or problematic.	
Restrictive I	Layer (if observed):									
Type:	Layer (if observed):									
Restrictive I Type: Depth (ir Remarks: This data for Errata. (http:/	Layer (if observed): Inches): m is revised from Mid //www.nrcs.usda.gov/	Iwest Regio	 onal Supplement \ }E_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric So	Yes X	No 0, 2015
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http:	Layer (if observed): Inches): m is revised from Mid //www.nrcs.usda.gov/	lwest Regio	 onal Supplement \ 3E_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric S	Yes X	No 0, 2015
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http:/	Layer (if observed): iches): m is revised from Mic //www.nrcs.usda.gov/	lwest Regid 'Internet/FS	 onal Supplement \ }E_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric S	Yes X	No 0, 2015
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd	Layer (if observed): hches): m is revised from Mic //www.nrcs.usda.gov/ IGY Irology Indicators:	lwest Regio	 onal Supplement ∖ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	ude the 93.docx	Hydric Soil Prese	nt? rs of Hydric So	Yes X	No 0, 2015
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary Indio	Layer (if observed): Inches): m is revised from Mic //www.nrcs.usda.gov/ IGY Irology Indicators: ators (minimum of or	lwest Regio 'Internet/FS	 onal Supplement \ 3E_DOCUMENTS	/ersion 2 /nrcs142 	2.0 to incl 2p2_0512	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato) <u>Seconc</u>	nt? rs of Hydric Si	Yes X oils, Version 7.	No
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http://openational. HYDROLO Wetland Hyd Primary India X_Surface V	Layer (if observed): Inches): m is revised from Mic //www.nrcs.usda.gov/ IGY Jrology Indicators: ators (minimum of or Water (A1)	lwest Regia 'Internet/FS	onal Supplement \ SE_DOCUMENTS ed; check all that a X_Water-Stai	/ersion 2 /nrcs142 apply) ined Lea	2.0 to incl 2p2_0512	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato) <u>Secono</u>	nt? rs of Hydric So lary Indicators face Soil Crac	Yes X oils, Version 7.	No
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http:// HYDROLO Wetland Hyd Primary Indio X Surface V X High Wa	Layer (if observed): Inches): m is revised from Mic //www.nrcs.usda.gov/ IGY Irology Indicators: <u>ators (minimum of or</u> Nater (A1) ter Table (A2)	lwest Regio 'Internet/FS	onal Supplement \ SE_DOCUMENTS <u>ed; check all that a</u> <u>X</u> Water-Stai	/ersion 2 /nrcs142 apply) ined Lea iuna (B1	2.0 to incl 2p2_0512 yps (B9) 3)	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato) Second Sun Dra	nt? rs of Hydric So lary Indicators face Soil Crac inage Patterns	Yes X oils, Version 7. (minimum of taks (B6) s (B10)	No
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http://www.com/ HYDROLO Wetland Hyd Primary India X Surface 1 X High Wa X Saturatio	Layer (if observed): inches): m is revised from Mic //www.nrcs.usda.gov/ IGY Jrology Indicators: xators (minimum of or Water (A1) ter Table (A2) in (A3)	lwest Regio 'Internet/FS	ed; check all that a X Water-Stai True Aquatic Fa	/ersion 2 /nrcs142 apply) ined Lea una (B1)	2.0 to incl 2p2_0512 vps (B9) 3) s (B14)	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato) Second Sui Dra Dra	nt? rs of Hydric So lary Indicators face Soil Crac inage Patterns -Season Wate	Yes X oils, Version 7. (minimum of to ks (B6) s (B10) er Table (C2)	No
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyo Primary India X Surface V X High Wa X Saturatio Water M	Layer (if observed): Inches): m is revised from Mic //www.nrcs.usda.gov/ IGY Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) In (A3) arks (B1)	lwest Regio 'Internet/FS	ed; check all that a X Water-Stai Aquatic Fa True Aqua	/ersion 2 /nrcs142 apply) ined Lea una (B1: tic Plants Sulfide C	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Ddor (C1)	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato) Second Sun Dra Dra Cra	nt? rs of Hydric So lary Indicators face Soil Crace inage Patterns -Season Wate yfish Burrows	Yes X oils, Version 7. (minimum of to the (B6) s (B10) or Table (C2) (C8)	No
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http://www.com/ Primary Indic X Surface V X High Wa X Saturatio Water M Sedimen	Layer (if observed): Inches): m is revised from Mic //www.nrcs.usda.gov/ IGY irology Indicators: xators (minimum of or Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)	lwest Regio	ed; check all that a <u>X</u> Water-Stai <u>A</u> quatic Fa <u>True Aqua</u> <u>C</u> Nidized R	/ersion 2 /nrcs142 apply) ined Lea iuna (B1: tic Plant: Sulfide C thizosph	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on L	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato) Second Su Dra Dra Dra Cra pots (C3) Sat	nt? rs of Hydric So lary Indicators face Soil Crace inage Patterns -Season Wate yfish Burrows uration Visible	Yes X oils, Version 7. (minimum of to ks (B6) s (B10) er Table (C2) (C8) e on Aerial Imag	<u>No</u> 0, 2015 <u>vo requir</u> gery (C9)
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http://www.com/ Primary India X Surface V X High Wa X Saturatio Water M Sedimen Drift Dep	Layer (if observed): Inches): m is revised from Mic //www.nrcs.usda.gov/ Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) i O ((d 1))	Iwest Regio	ed; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence o	/ersion 2 /nrcs142 apply) ined Lea iuna (B1: tic Planta Sulfide C :hizosphi of Reduc	2.0 to incl 2p2_0512 2p2_0512 2005 2005 2005 2005 2005 2005 2005	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato) 	nt? rs of Hydric So lary Indicators face Soil Crac inage Patterns -Season Wate yfish Burrows uration Visible nted or Stress	Yes X oils, Version 7. (minimum of two ks (B6) s (B10) er Table (C2) (C8) e on Aerial Image red Plants (D1)	<u>No</u> 0, 2015 <u>vo requir</u> gery (C9)
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Project/Site: Clover \	/alley	Road 515-Acre Site	City/Co	ounty: <u>N</u>	lew Albany	Licking		Sampling Date:	4-13-2022
Applicant/Owner:	The N	New Albany Company				_State:	ОН	Sampling Point:	W-C-15
Investigator(s): Eric N	lagy, I	EMH&T	Section,	Townshi	p, Range:	T. 2 N;	R. 15 W		
Landform (hillside, ter	rrace,	etc.): depression		Local re	elief (conca	ve, conve	x, none):	concave	
Slope (%):	Lat:	40.100601°	Long:	-82.729	281°			Datum:	
Soil Map Unit Name:	Pewa	amo silty clay loam (Pe)				<u> </u>	WI class	ification: NA	
Are climatic / hydrolog	gic co	nditions on the site typical	for this time of year?	Yes_	<u>x</u> N	o	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "No	rmal Circun	stances"	present?	Yes X No	,
Are Vegetation	, Soil	, or Hydrology	_naturally problematic?	(If need	ed, explain	any answe	ers in Ren	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes	<u>x</u>	No
Remarks:						

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Ulmus americana	80	Yes	FACW	Number of Dominant Species That		
2. Quercus palustris	15	No	FACW	Are OBL, FACW, or FAC:	3	(A)
3. Quercus bicolor	5	No	FACW	Total Number of Dominant Species		
4				Across All Strata:	3	(B)
5				Percent of Dominant Species That		
	100	=Total Cover		Are OBL, FACW, or FAC:	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15')						
1. Lindera benzoin	5	Yes	FACW	Prevalence Index worksheet:		
2				Total % Cover of: M	ultiply by:	_
3				OBL species 0 x 1 =	0	
4				FACW species 135 x 2 =	270	_
5.				FAC species 0 x 3 =	0	
	5	=Total Cover		FACU species 0 x 4 =	0	
Herb Stratum (Plot size: 5')		-		UPL species 0 x 5 =	0	
1. Carex spp.	30	Yes	FACW	Column Totals: 135 (A)	270	(B)
2.				Prevalence Index = B/A =	2.00	_
3.						-
4.				Hydrophytic Vegetation Indicators	5:	
5.				1 - Rapid Test for Hydrophytic V	egetation	
6.				X 2 - Dominance Test is >50%		
7.				X 3 - Prevalence Index is ≤3.0 ¹		
8.				4 - Morphological Adaptations ¹	Provide sup	porting
9.				data in Remarks or on a sepa	rate sheet)	
10.				Problematic Hydrophytic Vegeta	tion ¹ (Expla	in)
	30	=Total Cover		¹ Indicators of bydric soil and wetland	hydrology	must he
Woody Vine Stratum (Plot size: 15')		•		present, unless disturbed or problem	atic.	
1				Hydrophytic		
2				Vegetation		
		=Total Cover		Present? Yes X No		
Remarks: (Include photo numbers here or on a separat	e sheet.)					

				<u>Mi Outur</u>						
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 4/1	80	10YR 4/6	_20_	_C_	м	Loamy/Clayey	Promine	ent redox conc	entration
		·								
								<u> </u>		
Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	viS=Masi	ked Sand	d Grains.	² Locatio	on: PL=Pore l	_ining, M=Matri	х.
lydric Soil I	ndicators:						Indicat	ors for Proble	ematic Hydric	Soils ³ :
Histosol ((A1)		Sandy Gle	yed Mat	rix (S4)		<u>?</u> Co	ast Prairie Rec	lox (A16)	
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iror	n-Manganese I	Masses (F12)	
Black His	stic (A3)		Stripped M	/latrix (S6	6)		Re	d Parent Mate	rial (F21)	
Hydroger	า Sulfide (A4)		Dark Surfa	ace (S7)			Vei	y Shallow Dar	k Surface (F22)
Stratified	Layers (A5)		Loamy Mu	icky Mine	əral (F1)		Oth	er (Explain in	Remarks)	
2 cm Mud	ck (A10)		Loamy Gle	eyed Mat	trix (F2)					
Depleted	Below Dark Surface	э (А11)	X Depleted	Vatrix (F	3)					
Thick Da	rk Surface (A12)		Redox Dar	rk Surfac	æ (F6)		³ Indicat	ors of hydroph	nytic vegetation	and
Sandy M	ucky Mineral (S1)		Depleted [Dark Surf	face (F7)	1	wei	land hydrolog	y must be pres	ent,
5 cm Mu	cky Peat or Peat (S3	3)	? Redox De	pression	s (F8)		unl	ess disturbed	or problematic.	
Poetrictivo I										
	.ayer (if observed):									
Type:	.ayer (if observed):									
Type: _ Depth (in Remarks: This data forr Errata. (http:/	n is revised from Mi	dwest Reg //Internet/F	jional Supplement \ SE_DOCUMENTS	Version 2 J/nrcs142	2.0 to incl 2p2_0512	lude the 293.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric S	Yes X	No 0, 2015
Type: Depth (in Remarks: This data forr Errata. (http:/	n is revised from Mi	dwest Reg //Internet/F	jional Supplement V SE_DOCUMENTS	√ersion 2 ;/nrcs142	2.0 to incl 2p2_0512	lude the 293.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric S	Yes X	No
Type: _ Depth (in Remarks: This data forr Errata. (http:/	m is revised from Mi //www.nrcs.usda.gov	dwest Reg //Internet/F	jional Supplement \ SE_DOCUMENTS	Version 2 ;/nrcs142	2.0 to incl 2p2_0512	lude the 293.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric S	Yes X	No 0, 2015
Type: Depth (in Remarks: This data forr Errata. (http:/ HYDROLO	ayer (if observed): inches): m is revised from Mi //www.nrcs.usda.gov IGY Irology Indicators:	dwest Reg //Internet/F	jional Supplement \ SE_DOCUMENTS	Version 2 ;/nrcs142	2.0 to incl 2p2_0512	lude the 93.docx	Hydric Soil Prese	nt? rs of Hydric S	Yes X	No
Type: Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indic	ayer (if observed): iches): m is revised from Mi //www.nrcs.usda.gov IGY Irology Indicators: ators (minimum of c	dwest Reg //Internet/F	jional Supplement \ SE_DOCUMENTS	Version 2 ;/nrcs142 	2.0 to incl 2p2_0512	lude the 293.docx	Hydric Soil Prese	nt? rs of Hydric S	Yes X oils, Version 7. (minimum of t	No
Type: Depth (in Remarks: This data forr Errata. (http:// TYDROLO Wetland Hyd Primary Indic XSurface V	ager (if observed): hches): m is revised from Mi //www.nrcs.usda.gov IGY irology Indicators: ators (minimum of c Nater (A1)	dwest Reg //Internet/F	ional Supplement V SE_DOCUMENTS ired; check all that X_Water-Sta	Version 2 S/nrcs142	2.0 to incl 2p2_0512	lude the 293.docx	Hydric Soil Prese	nt? rs of Hydric S lary Indicators face Soil Crac	Yes X oils, Version 7. (minimum of t	No
Type: _ Depth (in Remarks: This data forr Errata. (http:/ TYDROLO Wetland Hyd Primary Indic X Surface V X High Wat	aches): m is revised from Mi //www.nrcs.usda.gov IGY irology Indicators: ators (minimum of c Nater (A1) ter Table (A2) (42)	dwest Reg //Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that X_Water-Sta	Version 2 S/nrcs142 apply) ined Lea auna (B1)	2.0 to incl 2p2_0512 ves (B9) 3)	lude the 293.docx	Hydric Soil Prese	nt? rs of Hydric S lary Indicators face Soil Crac inage Pattern	Yes X oils, Version 7. (<u>minimum of t</u> :ks (B6) s (B10)	No
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Project/Site: Clover V	/alley Roa	d 515-Acre Site	Ci	ty/Co	unty: <u>N</u> e	ew Albany/	Licking		Sampling Date:	4-19-2022
Applicant/Owner:	The New	Albany Company					_State:	ОН	Sampling Point:	W-D-4
Investigator(s): Eric N	lagy, EMH	I&T	Sec	tion, [·]	Township	, Range:	T. 2 N;	R. 15 W		
Landform (hillside, ter	rrace, etc.): depression			Local re	lief (concav	ve, conve	x, none):	concave	
Slope (%):	Lat: 40.1	100722°	L	ong:	-82.7283	47°			Datum:	
Soil Map Unit Name:	Pewamo	silty clay loam (Pe)						NWI class	ification: NA	
Are climatic / hydrolog	gic conditi	ons on the site typica	I for this time of year?		Yes	<u>х</u> N	٥	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	_, or Hydrology	significantly disturbed	?	Are "Nor	mal Circum	istances"	present?	Yes X No	,
Are Vegetation	, Soil	, or Hydrology	naturally problematic?	•	(If neede	d, explain a	any answ	ers in Ren	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_	<u>x</u>	No
Remarks:						

Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:		
1. Populus deltoides	50	Yes	FAC	Number of Dominant Species That		
2. Quercus palustris	20	Yes	FACW	Are OBL, FACW, or FAC:	4	(A)
3. Ulmus americana	30	Yes	FACW	Total Number of Dominant Species		
4.				Across All Strata:	4	(B)
5				Percent of Dominant Species That		
	100	=Total Cover		Are OBL, FACW, or FAC:	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15')	-				
1. Lindera benzoin	20	Yes	FACW	Prevalence Index worksheet:		
2				Total % Cover of:Mult	iply by:	_
3.				OBL species 0 x 1 =	0	
4.				FACW species 70 x 2 =	140	_
5.				FAC species 50 x 3 =	150	-
	20	=Total Cover		FACU species 0 x 4 =	0	-
Herb Stratum (Plot size: 5')		-		UPL species 0 x 5 =	0	-
1.				Column Totals: 120 (A)	290	_ (B)
2.				Prevalence Index = B/A = 2	2.42	
3.						-
4.				Hydrophytic Vegetation Indicators:		
5.				1 - Rapid Test for Hydrophytic Veg	etation	
6.				X 2 - Dominance Test is >50%		
7.				\overline{X} 3 - Prevalence Index is $\leq 3.0^1$		
8.				4 - Morphological Adaptations ¹ (Pr	ovide sup	porting
9.				data in Remarks or on a separa	te sheet)	
10.				Problematic Hydrophytic Vegetatic	on ¹ (Expla	in)
		=Total Cover		¹ Indicators of hydric soil and wetland h	vdrology i	must be
Woody Vine Stratum (Plot size: 15')	_		present, unless disturbed or problemat	tic.	
1				Hydrophytic		
2				Vegetation		
		=Total Cover		Present? Yes <u>X</u> No_		
Remarks: (Include photo numbers here or on a separa	ate sheet.)			•		

		·	1.600		·••• ,					
nches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture		Remarks	
0-6	10YR 4/2	95	10YR 5/6	5	_ <u>C</u>	M	Loamy/Clayey	Prominent	redox conce	entration
		<u> </u>								
ype: C=Co	ncentration, D=Depl	etion, RM=	-Reduced Matrix, N	VS=Masl	ked Sand	d Grains.	² Locatio	n: PL=Pore Lini	ng, M=Matrix	K
dric Soil I	ndicators:						Indicato	ors for Problem	atic Hydric S	Soils°:
_Histosol (A1)		Sandy Gle	yed Mat	rix (S4)		<u>?</u> Coa	st Prairie Redox	(A16)	
_Histic Epi	ipedon (A2)		Sandy Red	dox (S5)			Iron	Manganese Ma	sses (F12)	
Black His	itic (A3)		Stripped M	latrix (S6	3)		Red	Parent Material	(F21)	
_Hydroger	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark S	Surface (F22))
_Stratified	Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Othe	er (Explain in Re	marks)	
_2 cm Mud	ck (A10)		Loamy Gle	eyed Mat	trix (F2)					
_ Depleted	Below Dark Surface) (A11)	X Depleted	Vatrix (F	3)					
_ Thick Da	rk Surface (A12)		Redox Da	rk Surfac	ж (F6)		³ Indicate	ors of hydrophyti	c vegetation	and
_Sandy Mi	ucky Mineral (S1)		Depleted [Jark Sur	face (F7))	wetl	and hydrology m	nust be prese	ent,
_5 cm Mud	ky Peat or Peat (S3)	? Redox De	pression	s (F8)		unle	ss disturbed or p	problematic.	
estrictive L	.ayer (if observed):									
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Project/Site: Clover \	/alley	Road 515-Acre Site	City/Co	unty: <u>N</u>	lew Albany/	Licking		Sampling Date:	4-19-2022
Applicant/Owner:	The N	New Albany Company				_State:	ОН	Sampling Point:	W-E-9
Investigator(s): Eric N	lagy, E	EMH&T	Section,	Townshi	p, Range:	T. 2 N;	R. 15 W		
Landform (hillside, ter	rrace,	etc.): depression		Local re	elief (concav	ve, conve	x, none):	concave	
Slope (%):	Lat:	40.100013°	Long:	-82.7279	970°			Datum:	
Soil Map Unit Name:	Pewa	amo silty clay loam (Pe)				I	WI class	ification: NA	
Are climatic / hydrolog	gic co	nditions on the site typical	for this time of year?	Yes_	X No	°	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "No	rmal Circum	stances"	present?	Yes X No	,
Are Vegetation	, Soil	, or Hydrology	_naturally problematic?	(If neede	ed, explain a	any answ	ers in Ren	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_	<u>x</u>	No
Remarks:						

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species2	Indicator Status	Dominance Test worksheet		
1 Carva laciniosa	45		FACW			
2 Quercus palustris	40	- <u> </u>	FACW	Are OBL EACW or EAC:	3	(Δ)
3 Ulmus americana	 5	- <u> </u>	FACW	Tite OBL, Friday, of Friday -	<u> </u>	- "
4 Populus deltoides	10	No No	FAC	Lotal Number of Dominant Species	3	(B)
5					<u> </u>	_(0)
···	100	- Total Cover		Are OBL EACW or EAC:	100.0%	(A/B)
- Sapling/Shrub Stratum (Plot size: 15')	100				100.078	_(~0)
<u>Japing/Sindo Stratum</u> (Flot size. 13)	50	Ves	FACW	Prevalence Index worksheet:		
2				Total % Cover of:	tiply by:	
				$\frac{1}{OBl} \text{ species} \qquad 0 \qquad \frac{1}{x} 1 = 1$	0	-
٥ ·				$\frac{\text{ODL species}}{\text{FACW species}} = \frac{142}{x^2} = \frac{142}{x^2}$	284	-
^{7.}				$FAC expectes = 10 \qquad x 3 =$	30	-
······································	<u>50</u>	- Total Covor				-
Horb Stratum (Plat airo: 5')						-
<u>Herb Stratum</u> (Flot size)	2	No	EAC)A/	$\begin{array}{c} \text{OFL species} \\ \text{Column Totolor} \\ 152 \\ (A) \end{array}$	214	- _(B)
1. Carex spp.				Dravelenes Index = B(A =	314	- ^(D)
2				Prevalence index = B/A =	2.07	-
3 ·						
4				Hydrophytic vegetation indicators:		
5.		<u> </u>			getation	
6				X 2 - Dominance Test is >50%		
/				X_3 - Prevalence Index is $\leq 3.0^{\circ}$		
8				4 - Morphological Adaptations' (P	rovide sup	porting
9				data in Remarks or on a separ		
10				Problematic Hydrophytic Vegetati	on' (Expla	in)
	2	=Total Cover		¹ Indicators of hydric soil and wetland	hydrology	must be
<u>Woody Vine Stratum</u> (Plot size: 15')				present, unless disturbed or problema	atic.	
1.				Hydrophytic		
				Vegetation		
2.						
2.		=Total Cover		Present? Yes X No		

Depin	Matrix		Redo	ox Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10VR 3/1	90	10VR 5/6	10	<u> </u>			Prominent redox concentrations
6 10	10YB 4/1		10VP 5/6					Brominant roday concentrations
6-10	10YR 4/1		10YR 5/6		<u> </u>	<u></u>	Loamy/Clayey	
¹ Type: C=Co	ncentration, D=Dep	letion. RM	Reduced Matrix.	MS=Masl	ked Sand	Grains.	2Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:		,				Indicato	rs for Problematic Hydric Soils ³ :
- Histosol ('A1)		Sandy Gle	yed Mat	rix (S4)		? Coas	st Prairie Redox (A16)
Histic Epi	ipedon (A2)		Sandy Red	dox (S5)			Iron-	Manganese Masses (F12)
Black His	tic (A3)		Stripped N	Aatrix (S6	5)		Red	Parent Material (F21)
Hydrogen	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Muc	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
? Depleted	Below Dark Surface	e (A11)	Depleted I	Matrix (F	3)			
Thick Dar	rk Surface (A12)		X Redox Da	rk Surfac	æ (F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy Mi	ucky Mineral (S1)		Depleted [Dark Sur	face (F7)		wetla	and hydrology must be present,
5 cm Muc	cky Peat or Peat (S3)	? Redox De	pression	s (F8)		unles	ss disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in Remarks: This data form Errata. (http://	ches): n is revised from Mic /www.nrcs.usda.gov	dwest Reg /Internet/F	gional Supplement V	Version 2 S/nrcs142	2.0 to incl 2p2_0512	ude the I 93.docx)	Hydric Soil Presen	t? Yes X No sof Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data forr Errata. (http://	ches): n is revised from Mid /www.nrcs.usda.gov	dwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS	Version 2 i/nrcs142	2.0 to incl 2p2_0512	ude the I 93.docx)	Hydric Soil Presen	t? Yes X No sof Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data forr Errata. (http://	ches): n is revised from Mi /www.nrcs.usda.gov GY	dwest Reg /Internet/F	gional Supplement V	Version 2 Jorcs142	2.0 to incl 2p2_0512	ude the I 93.docx)	Hydric Soil Presen	t? Yes X No sof Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd	ches): n is revised from Mi /www.nrcs.usda.gov GY Irology Indicators:	dwest Reg /Internet/F	jional Supplement V	Version 2 Version 2	2.0 to incl 2p2_0512	ude the I 93.docx)	Hydric Soil Presen	t? Yes X No sof Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hydd Primary Indice	ches): n is revised from Mid /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o	dwest Reg /Internet/F ne is requ	ional Supplement V	/ersion 2 i/nrcs142 apply)	2.0 to incl 2p2_0512	ude the I 93.docx)	Hydric Soil Presen	t? Yes X No s of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data forr Errata. (http:// HYDROLO Wetland Hyd Primary Indica Surface V	ches): m is revised from Mid /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1) water (A2)	dwest Reg /Internet/F ne is requ	gional Supplement V SE_DOCUMENTS <u>irred; check all that</u> X_Water-Sta	/ersion 2 ;/nrcs142 apply) ined Lea	2.0 to incl 2p2_0512 ves (B9)	ude the l 93.docx)	Hydric Soil Presen	t? Yes X No s of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two required ace Soil Cracks (B6)
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Project/Site: Clover \	/alley	Road 515-Acre Site	City/Co	ounty: <u>N</u>	lew Albany	Licking		Sampling Date:	4-19-2022
Applicant/Owner:	The N	New Albany Company				_State:	ОН	Sampling Point:	W-F-2
Investigator(s): Eric N	lagy, I	EMH&T	Section,	Townshi	p, Range:	T. 2 N;	R. 15 W		
Landform (hillside, ter	rrace,	etc.): depression		Local r	elief (conca	ve, conve	x, none):	concave	
Slope (%):	Lat:	40.099516°	Long:	-82.730	476°			Datum:	
Soil Map Unit Name:	Pewa	imo silty clay loam (Pe)				I	NWI class	ification: NA	
Are climatic / hydrolog	gic co	nditions on the site typical	for this time of year?	Yes	<u>x</u> N	lo	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "No	rmal Circun	nstances"	present?	Yes X No	,
Are Vegetation	, Soil	, or Hydrology	_naturally problematic?	(If need	ed, explain	any answ	ers in Ren	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_	<u>x</u>	No
Remarks:						

Trac Obstance (Distribution 201	Absolute	Dominant	Indicator	Demission Testandal	4		
(Plot size: <u>30</u>)	% Cover	Species?	Status	Dominance Test worksh	eet:		
1				Number of Dominant Spec	cies That	4	(1)
2				Are UBL, FACW, of FAC:	-	4	_(A)
3		·		Total Number of Dominan	t Species	4	(B)
۰					-		_(0)
5				Percent of Dominant Spec	ies That	400.09/	
		- Total Cover		Are UBL, FACW, of FAC	-	100.0%	_(AVB)
Sapling/Shrub Stratum (Plot size: 15')						
1. Fraxinus pennsylvanica	10	Yes	FACW	Prevalence Index works	neet:		
2. Cornus racemosa	10	Yes	FAC	Total % Cover of:	Mu	tiply by:	_
3				OBL species 28	x1=_	28	_
4				FACW species 80	x2=_	160	_
5				FAC species 10	x3=	30	_
	20	=Total Cover		FACU species 2	x 4 =	8	
Herb Stratum (Plot size: 5')		-		UPL species 0	 x5=	0	
1. Juncus effusus	70	Yes	FACW	Column Totals: 120	 (A)	226	 (B)
2. Scirpus cyperinus	28	Yes	OBL	Prevalence Index = B	/A =	1.88	
3. Dipsacus fullonum	2	No	FACU				_
4.				Hvdrophytic Vegetation	Indicators:		
5.				1 - Rapid Test for Hvd	Irophytic Ve	aetation	
6.				X 2 - Dominance Test is	s >50%	3	
7				X 3 - Prevalence Index i	$s \le 3.0^{1}$		
8				4 - Morphological Ada	otations ¹ /P	rovide sur	norting
9				data in Remarks or	on a separ	ate sheet)	porting
10.				Problematic Hydrophy	/tic Vegetati	on ¹ (Expla	in)
	100	=Total Cover				•	
Woody Vine Stratum (Plot size: 15')	-		present, unless disturbed	or problema	nyarology atic.	must be
1				Hydrophytic			
2.				Vegetation			
		=Total Cover		Present? Yes X	No		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			·			

(inches)		·	11000	X T Outur	,					
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 4/1	85	10YR 5/6	15	_C	M	Loamy/Clayey	Promine	ent redox conc	entration
								-		
								- <u> </u>		
								·		
							21			
vdric Soil In	dicators:	euon, Rivi-	Reduced Malnx, N	/15=11/185	ked Sand	i Grains.	Localio	on: PL=Pore L	_ining, w=wau	X. Soile ^{3,}
Histosol (A	1)		Sandy Gla	wed Mat	riv (S4)			et Proirie Por		30115 .
Histic Enin	edon (A2)		Sandy Rec	yeu iviau dox (S5)	IX (34)				Massas (E12)	
Black Histi	c (Δ3)		Stripped M	Jon (00) Natrix (SF	3			l Parent Mate	rial (F21)	
Hydrogen 9	Sulfide (A4)		Dark Surfa	ace (S7)	<i>'</i>)		Ver	v Shallow Dar	k Surface (F22	۱
Stratified I	avers (A5)			icky Mine	aral (F1)		Oth	er (Explain in	Remarks)	,
2 cm Muck	(A10)		Loamy Gle	eved Mat	rix (F2)				(cindino)	
Depleted B	elow Dark Surface	• (A11)	X Depleted M	vatrix (F:	3)					
Thick Dark	Surface (A12)	· (· · · ·)	Redox Dar	rk Surfac	-, æ (F6)		³ Indicat	ors of hvdroph	vtic vegetation	and
Sandv Mud	kv Mineral (S1)		Depleted [Jark Sur	face (F7)	I	wet	land hydrolog	v must be pres	ent.
5 cm Muck	v Peat or Peat (S3))	? Redox Der	pressions	s (F8)		unio	ess disturbed	or problematic.	,
Restrictive La	ver (if observed):									
Restrictive La	yer (if observed):									
Restrictive La Type: Depth (inch Remarks: This data form Errata. (http://w	yer (if observed): nes): is revised from Mid ww.nrcs.usda.gov	dwest Regi /Internet/F	onal Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	ude the 293.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric S	Yes X	No_ 0, 2015
Restrictive La Type: Depth (incl Remarks: This data form Errata. (http://w	yer (if observed): nes): is revised from Mid ww.nrcs.usda.gov	dwest Regi /Internet/F	onal Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	ude the 93.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric S	Yes X	No
Restrictive La Type: Depth (incl Remarks: This data form Frrata. (http://w	yer (if observed): nes): is revised from Mik www.nrcs.usda.gov	dwest Regi /Internet/F	ional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Prese	nt? rs of Hydric S	Yes X	No
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Restrictive La Type: Depth (incl Remarks: This data form Errata. (http://w Primary Indicat X Surface With Victor	yer (if observed): nes): is revised from Mid www.nrcs.usda.gov iY plogy Indicators: ors (minimum of o ater (A1) r Table (A2)	dwest Regi /Internet/F	red; check all that	/ersion 2 /nrcs142 	2.0 to inc 2p2_0512 ves (B9)	lude the 93.docx	Hydric Soil Prese	nt? rs of Hydric S ary Indicators face Soil Crac	Yes X oils, Version 7. (minimum of to cks (B6)	No
Restrictive La Type: Depth (incl Remarks: This data form Trrata. (http://w Primary Indicat X Surface Wa X Surface Wa X Surface Wa	yer (if observed): hes): is revised from Mid www.nrcs.usda.gov iY ology Indicators: cors (minimum of o ater (A1) r Table (A2) (A3)	dwest Regi /Internet/F	red; check all that a X Water-Stal	/ersion 2 /nrcs142 	2.0 to inc 2p2_0512 ves (B9) 3)	lude the 293.docx	Hydric Soil Prese	nt? rs of Hydric S ary Indicators face Soil Crac inage Pattern:	Yes X oils, Version 7. (minimum of to ks (B6) s (B10) or Table (C2)	No
Restrictive La Type: Depth (incl Remarks: This data form Errata. (http://w Primary Indicat X Surface Wa X High Water X Saturation Water Mari	yer (if observed): hes): is revised from Mid www.nrcs.usda.gov iY ology Indicators: cors (minimum of o ater (A1) r Table (A2) (A3) (A3) (A1)	dwest Regi /Internet/F	red; check all that a X Water-Stal	/ersion 2 /nrcs142 apply) ined Lea iuna (B1: tic Plants Sulfide C	2.0 to inc p2_0512 ves (B9) 3) s (B14)	lude the 193.docx	Hydric Soil Prese	nt? rs of Hydric S ary Indicators face Soil Crac inage Patterna -Season Wate	Yes X oils, Version 7. (<u>minimum of tr</u> ks (B6) s (B10) or Table (C2) (C8)	No
Restrictive La Type: Depth (incl Remarks: This data form Frrata. (http://w Primary Indicat X Surface W: X Sturface W: X High Water X Saturation Water Mart Sediment I	yer (if observed): hes): is revised from Mid www.nrcs.usda.gov iY ology Indicators: :ors (minimum of o ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	dwest Regi /Internet/F	red; check all that is a c	/ersion 2 /nrcs142 apply) ined Lea una (B1: tic Plants Sulfide C thizosph	2.0 to inc p2_0512 ves (B9) 3) s (B14) Ddor (C1 eres on J	Jude the 193.docx	Hydric Soil Prese	nt? rs of Hydric S ary Indicators face Soil Crac inage Patterns -Season Wate yfish Burrows uration Visible	Yes X oils, Version 7. (minimum of to ks (B6) s (B10) er Table (C2) (C8) e on Aerial Imag	No
Restrictive La Type: Depth (incl Remarks: This data form Errata. (http://w Primary Indicat X Surface Wa X High Water X Saturation Water Mart Sediment I Drift Depos	yer (if observed): hes): is revised from Mid www.nrcs.usda.gov iY blogy Indicators: <u>cors (minimum of o</u> ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) its (B3)	dwest Regi /Internet/F	red; check all that a X Water-Stai Aquatic Fa DOCUMENTS	/ersion 2 /nrcs142 apply) ined Lea una (B1: tic Plants Sulfide C thizospho of Reduc	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on l ced Iron (lude the 193.docx	Hydric Soil Prese	nt? rs of Hydric S ary Indicators face Soil Crac inage Patterns -Season Wate yfish Burrows uration Visible nted or Stress	Yes X oils, Version 7. (minimum of to ks (B6) s (B10) or Table (C2) (C8) o on Aerial Imag ed Plants (D1)	No
Restrictive La Type: Depth (inc) Remarks: This data form Errata. (http://w Primary Indicat X Surface Wi X Saturation Water Marl Sediment I Drift Depos Algal Mat o	yer (if observed): hes): is revised from Mid www.nrcs.usda.gov iY plogy Indicators: cors (minimum of o ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) its (B3) r Crust (B4)	dwest Regi /Internet/F	red; check all that a X Water-Stail Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro	/ersion 2 /nrcs142 	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Odor (C1 eres on l ced Iron (tion in Ti	lude the 293.docx .iving Rc C4) lled Soils	Hydric Soil Prese	nt? rs of Hydric S ary Indicators face Soil Crac inage Patterns -Season Wate yfish Burrows uration Visible nted or Stress pmorphic Posi	Yes X oils, Version 7. (minimum of to ks (B6) s (B10) or Table (C2) (C8) o n Aerial Imag red Plants (D1) tion (D2)	No_ 0, 2015 wo requi
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Restrictive La Type: Depth (incl Remarks: This data form Errata. (http://w Primary Indical X Surface Wit X Saturation Water Mart Sediment I Drift Depos Algal Mat c Iron Depos X Inundation	yer (if observed): hes): is revised from Mid www.nrcs.usda.gov iY blogy Indicators: :ors (minimum of o ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) iits (B3) wr Crust (B4) its (B5) Visible on Aerial Ir	dwest Regi /Internet/F	ional Supplement \ SE_DOCUMENTS red; check all that i X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck	/ersion 2 /nrcs142 /nrcs142 ined Lea una (B1: tic Plants Sulfide C thizospho of Reduc n Reduc Surface Well Data	2.0 to inc p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on l ced Iron (tion in Ti (C7) a (D9)	lude the 193.docx	Hydric Soil Prese NRCS Field Indicato	nt? rs of Hydric S ary Indicators face Soil Crac inage Patterns -Season Wate yfish Burrows uration Visible nted or Stress omorphic Posi C-Neutral Test	Yes X oils, Version 7. (minimum of tr ks (B6) s (B10) er Table (C2) (C8) o on Aerial Imag eed Plants (D1) tion (D2) t (D5)	<u>No</u> 0, 2015 <u>wo requi</u> gery (C9
Restrictive La Type: Depth (incl Remarks: This data form Frrata. (http://w Primary Indicat X Surface Wa X Saturation Water Marl Sediment I Drift Depos Algal Mat c Iron Depos X Inundation Sparsely V	yer (if observed): hes): is revised from Mid www.nrcs.usda.gov iY ology Indicators: <u>cors (minimum of o</u> ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) its (B3) r Crust (B4) its (B5) Visible on Aerial Ir egetated Concave	dwest Regi /Internet/F	ional Supplement \ SE_DOCUMENTS <u>red; check all that a</u> <u>X</u> Water-Stai <u>A</u> quatic Fa <u>True Aqua</u> Hydrogen <u>Oxidized R</u> <u>Presence of</u> <u>Recent Iro</u> <u>Thin Muck</u> ') <u>Gauge or \</u> 8) Other (Exp	/ersion 2 /nrcs142 /nrcs142 /nrcs142 /nrcs142 /nrcs142 /nrcs142 /nrcs142 /lined Lear /lined Lear /line	2.0 to inc p2_0512 ves (B9) 3) s (B14) Ddor (C1 eres on l eres on l iced Iron (tion in Ti (C7) a (D9) emarks)	lude the 193.docx	Hydric Soil Prese	nt? rs of Hydric S ary Indicators face Soil Crac inage Patterns -Season Wate yfish Burrows uration Visible nted or Stress omorphic Posi C-Neutral Test	Yes X oils, Version 7. (minimum of to ks (B6) s (B10) or Table (C2) (C8) o n Aerial Imag ed Plants (D1) tion (D2) tion (D2)	<u>No</u> 0, 2015 <u>wo requi</u>
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Project/Site: Clover	Valley	Road 515-Acre Site	City/C	County:	New Alt	bany/ Lic	king		Sampling Date:	4-19-2022
Applicant/Owner:	The N	lew Albany Company				s	tate:	ОН	Sampling Point:	W-F-61
Investigator(s): Eric I	Nagy, E	EMH&T	Section	n, Town	ship, Ran	ige: T	. 2 N;	R. 15 W		
Landform (hillside, te	rrace,	etc.): depression		_ Loca	al relief (co	oncave,	conve>	k, none):	concave	
Slope (%):	Lat:	40.099327°	Long	g: <u>-82.7</u>	'30815°				Datum:	
Soil Map Unit Name:	Pewa	mo silty clay loam (Pe)					N	WI class	ification: NA	
Are climatic / hydrold	gic co	nditions on the site typica	I for this time of year?	Ye	s <u>X</u>	No_		(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "	Normal C	ircumsta	nces"	present?	Yes <u>X</u> No	»
Are Vegetation	, Soil	, or Hydrology	naturally problematic?	(lf ne	eded, exp	plain any	answe	ers in Rer	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_	x	No
Remarks:						

Tree Stratum (Plot size:30') 1. Fraxinus pennsylvanica 2.	Absolute % Cover 80	Dominant Species? Yes	Indicator Status FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B)
5 Sapling/Shrub Stratum (Plot size: 15')	80	=Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1. 2.				Prevalence Index worksheet: Total % Cover of: Multiply by:
3				OBL species x 1 =0
4				FACW species 120 x 2 = 240
5		- <u>-</u>		FAC species $0 \times 3 = 0$
Horb Stratum (Plot airo: 5')		_= I otal Cover		FACU species 0 $x = 0$
<u> Herb Stratum</u> (Flot size. <u>5</u>) 1 Phalaris arundinacea	40	Yes	FACW	Column Totals: 140 (A) 260 (B)
2. Scirpus cyperinus	20	Yes	OBL	Prevalence Index = B/A = <u>1.86</u>
5		·		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
6				X 2 - Dominance Test is >50%
7				X_3 - Prevalence Index is ≤3.0 ¹
8 9				4 - Morphological Adaptations ' (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 15')	60	_=Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				Hydrophytic Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separat	e sheet.)			

Profile Desc	ription: (Describe	to the depth	needed to doc	ument th	ne indica	itor or c	confirm the absence	e of indicators.)	
Depth	Matrix		Redo	ox Featur	res				
(inches)	Color (moist)		Color (moist)	_%	Type ¹	Loc ²	Texture	Remarks	
0-10	10YR 4/1	80	10YR 4/6	_20	_C_	M	Loamy/Clayey	Prominent redox concentrations	;
		·	<u> </u>						
		·							
<u> </u>		·							
¹ Type: C=Co	oncentration, D=Dep	letion, RM=F	leduced Matrix, N	MS=Masl	ked Sand	Grains	. ² Locatio	on: PL=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicat	ors for Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		<u>?</u> Coa	ast Prairie Redox (A16)	
Histic Ep	ipedon (A2)		Sandy Rec	dox (S5)				n-Manganese Masses (F12)	
	stic (A3)		Stripped M	latrix (Se	5)			d Parent Material (F21)	
Hydroger	n Suitide (A4)		Dark Surfa	1Ce (S7)				y Shallow Dark Surface (F22)	
				ICKY IVIINE	eral(F1)		Oth	ier (Explain in Remarks)	
Depleted	Rolow Dork Surfoo	~ (A11)	Loaniy Gie	yeu wat	11x (FZ) 2)				
Thick Da	rk Surface (A12)	9 (ATT)		viau ix (Fi	5) 10 (E6)		³ Indicat	ore of hydrophytic vegetation and	
Sandy M	ucky Mineral (S1)			Dark Sur	face (F7)	1	wet	land hydrology must be present	
5 cm Mu	cky Peat or Peat (S:	3)	? Redox Der		s (F8)	1	uni	ess disturbed or problematic	
	aver (if observed):	-)			- ()				
Type.	ayer (il observeu).								
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No	
Demendent									_
This data for	m is revised from Mi	dwest Regio	nal Supplement \	Version 2	0 to incl	ude the	NRCS Field Indicato	rs of Hydric Soils Version 7.0. 2015	
Errata. (http:/	//www.nrcs.usda.gov	//Internet/FSI	E_DOCUMENTS	/nrcs142	p2_0512	93.doc>	k)		
HYDROLO	GY								
Wetland Hyd	Irology Indicators:								
Primary Indic	ators (minimum of o	one is require	d; check all that	apply)			Second	lary Indicators (minimum of two require	ed)
X Surface V	Nater (A1)		X Water-Sta	ined Lea	ves (B9)		Sur	face Soil Cracks (B6)	
X High Wat	ter Table (A2)		Aquatic Fa	auna (B1	3)		Dra	inage Patterns (B10)	
X Saturatio	n (A3)		True Aqua	tic Plant	s (B14)		Dry	-Season Water Table (C2)	
Water Ma	arks (B1)		Hydrogen	Sulfide C	Odor (C1))	Cra	yfish Burrows (C8)	
Sedimen	t Deposits (B2)		Oxidized F	Rhizosph	eres on l	iving R	oots (C3)Sat	uration Visible on Aerial Imagery (C9)	
Drift Dep	osits (B3)		Presence	of Reduc	ed Iron (C4)	Stu	nted or Stressed Plants (D1)	
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	Is (C6) X Geo	omorphic Position (D2)	
	DSITS (B5) In Minible on April 1				(C7) a (D0)			C-Neutral Test (D5)	
Sparsolv	Vogotated Concave	Surface (B8) Gauge of f	veli Dali	a (D9) omorke)				
					emarks)				
Field Observ	ations:	- V	NI-			~			
Surface wate	Present? Ye			Depth (i	ncnes): _	6			
Saturation Pr	Present?			Depth (i	ncnes): 	0	Wotland Hydrol	agu Brasant2 Vas X No	
(includes car	villary fringe)	<u>,,, </u>	NO	Deptii (i					
Describe Rer	corded Data (stream	daude, mon	itoring well aeria	l photos	previou	s inspec	tions), if available:		
		390, mon		- F.1000					
Remarks:									

Project/Site: Clover V	/alley	Road 515-Acre Site	City/Co	unty: New Alban	y/ Licking		Sampling Date:	4-19-2022
Applicant/Owner:	The N	New Albany Company			State:	ОН	Sampling Point:	W-G-42
Investigator(s): Eric N	lagy, l	EMH&T	Section,	Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, ter	rrace,	etc.): depression		Local relief (conc	ave, conve	k, none):	concave	
Slope (%):	Lat:	40.100439°	Long:	-82.730813°			Datum:	
Soil Map Unit Name:	Pewa	amo silty clay loam (Pe)			11	WI class	ification: NA	
Are climatic / hydrolog	gic co	nditions on the site typical	for this time of year?	Yes X	No	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circu	mstances"	present?	Yes X No) <u> </u>
Are Vegetation	, Soil	, or Hydrology	_naturally problematic?	(If needed, explair	n any answe	ers in Ren	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_	<u>x</u>	No
Remarks:						

	Absolute	Dominant	Indicator			
<u>Iree Stratum</u> (Plot size: <u>30</u>)	% Cover	Species?	Status	Dominance Test worksheet:		
1. Ulmus americana	/0	Yes	FACW	Number of Dominant Species That		
2. Quercus palustris	30	Yes	FACW	Are OBL, FACW, or FAC:	4	_ ^(A)
3		- <u> </u>		Total Number of Dominant Species		(=)
4.	·			Across All Strata:	4	- ^(B)
5				Percent of Dominant Species That		
	100	_=Total Cover		Are OBL, FACW, or FAC:	100.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15')					
1. Lindera benzoin	40	Yes	FACW	Prevalence Index worksheet:		
2. Ligustrum vulgare	10	No	FACU	Total % Cover of: N	fultiply by:	_
3. <u>Rosa multiflora</u>	5	No	FACU	OBL species x 1 =	: 0	_
4				FACW species 180 x 2 =	: 360	_
5.				FAC species 0 x 3 =	: 0	_
	55	=Total Cover		FACU species 15 x 4 =	= 60	_
Herb Stratum (Plot size: 5')		-		UPL species 0 x 5 =	: 0	-
1. Cinna arundinacea	35	Yes	FACW	Column Totals: 195 (A)	420	_ (B)
2. Carex spp.	5	No	FACW	Prevalence Index = B/A =	2.15	_
3.						_
4.				Hydrophytic Vegetation Indicator	rs:	
5.				1 - Rapid Test for Hydrophytic	Vegetation	
6.				X 2 - Dominance Test is >50%	-	
7.				\overline{X} 3 - Prevalence Index is $\leq 3.0^1$		
8.				4 - Morphological Adaptations ¹	(Provide suc	porting
9.				data in Remarks or on a sep	arate sheet)	, .
10.				Problematic Hydrophytic Veget	ation ¹ (Expla	in)
	40	=Total Cover		¹ Indicators of hydric soil and wetlan		r muet bo
Woody Vine Stratum (Plot size: 15')	-		present, unless disturbed or problem	matic.	inuat be
1.				Hydrophytic		
2.				Vegetation		
		=Total Cover		Present? Yes X	<u></u> د	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			·		

			Redo	x realu	00			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/2	98	10YR 3/4	2	С	м	Loamy/Clayey	Distinct redox concentrations
6-10	10YR 4/1	85	10YR 4/6			<u>M</u>	Loamy/Clayey	Prominent redox concentrations
							2	
Hydric Soil	Indicators:			13-11/281	keu Sand	Grains.	Indicato	re for Problematic Hydric Soils ³
Histosol	(A1)		Sandy Gla	vod Mat	riv (S4)		2 Cos	t Prairie Peday (A16)
	(AT) vinadan (A2)		Sandy Be	yeu wau dox (85)	lix (34)			
	npedon (Az)		Sanuy Red	10X (35)			IIOII-I	Nanganese Masses (F12)
	stic (A3) = Cultide (A4)		Stripped M)			Parent Material (F21)
Hyaroge	n Suilide (A4)		Dark Surfa	ce (S7)			Very	Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	CKY MINE	erai(⊢1)			(Explain in Remarks)
2 cm Mu	CK (A10)		Loamy Gle	yed Mat	rix (⊢2)			
	Below Dark Surface	(A11)		/latrix (F:	3)		3	
	irk Surface (A12)		Redox Dar	k Surfac	æ(⊢6)		"Indicato	s of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)			Jark Sun		1	wetla	nd hydrology must be present,
5 cm MU	CKY Peat or Peat (S3)		ression	s (⊢8)		Unies	s disturbed or problematic.
Destrictive	Laver (if observed)							
Restrictive								
Type:								
Type: Depth (ir Remarks: This data for Errata. (http:	m is revised from Mic	lwest Reg 'Internet/F	ional Supplement V	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	lude the f	Hydric Soil Presen	of Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http:	m is revised from Mic //www.nrcs.usda.gov/	lwest Reg (Internet/F	ional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	lude the M 293.docx)	Hydric Soil Presen	t? Yes X No
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC	m is revised from Mic //www.nrcs.usda.gov/	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	lude the M 293.docx)	Hydric Soll Presen	t? Yes X No
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India	m is revised from Mic //www.nrcs.usda.gov JGY Jrology Indicators:	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	lude the N 293.docx)	Hydric Soil Presen	t? Yes X No
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India	m is revised from Mic //www.nrcs.usda.gov. /GY drology Indicators: ators (minimum of o	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS ired; check all that a	/ersion 2 /nrcs142 	2.0 to incl 2p2_0512	lude the N 293.docx)	Hydric Soil Presen	t? Yes X No is of Hydric Soils, Version 7.0, 2015 y Indicators (minimum of two requires on Soil Cracks (Bb)
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India X Surface	mis revised from Mic //www.nrcs.usda.gov. IGY drology Indicators: xators (minimum of o Water (A1) fer Table (A2)	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS ired; check all that a X Water-Stai	/ersion 2 /nrcs142 	2.0 to incl 2p2_0512	lude the N 293.docx)	Hydric Soil Presen	t? Yes X No s of Hydric Soils, Version 7.0, 2015 <u>y Indicators (minimum of two require</u> ce Soil Cracks (B6) are Patterns (B10)
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India X Surface X High Wa	m is revised from Mic //www.nrcs.usda.gov.)GY drology Indicators: cators (minimum of o Water (A1) ter Table (A2)	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS <u>ired; check all that a</u> <u>X</u> Water-Stai <u>A</u> quatic Fa	/ersion 2 /nrcs142 apply) ned Lea una (B1:	2.0 to incl 2p2_0512 ves (B9) 3)	lude the N 293.docx)	Hydric Soil Presen	t? Yes X No of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) ieason Water Table (C2)
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India X Surface X High Wa X Saturatic Water M	m is revised from Mic //www.nrcs.usda.gov IGY drology Indicators: <u>>ators (minimum of o</u> Water (A1) ter Table (A2) in (A3) arks (B1)	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen	/ersion 2 /nrcs142 apply) ned Lea una (B1 tic Plant: Sulfide (2.0 to incl 2p2_0512 ves (B9) 3) s (B14)	lude the N 293.docx)	Hydric Soll Presen	t? Yes X No of Hydric Soils, Version 7.0, 2015 Ty Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) ieason Water Table (C2) ieb Burrows (C8)
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India X Surface X High Wa X Saturatic Water M Sedimer	mis revised from Mic //www.nrcs.usda.gov/ JGY drology Indicators: zators (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that i X Water-Stai Aquatic Fa True Aqua Hydrogen i Ovidized B	/ersion 2 /nrcs142 apply) ined Lea iuna (B1: tic Plant: Sulfide C	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Ddor (C1) errs on L	lude the N 293.docx)	Hydric Soll Present	t? Yes X No of Hydric Soils, Version 7.0, 2015 Ty Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) ieason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India X Surface X High Wa X Saturatio Water M Sedimer	m is revised from Mid //www.nrcs.usda.gov. // //www.nrcs.usda.gov. // // / / / / / / / / / / / / / / / /	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen a Oxidized R	/ersion 2 /nrcs142 apply) ined Lea una (B1: tic Plant: Sulfide C :hizosph of Reduc	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Ddor (C1) eres on L	lude the N 293.docx)	Hydric Soll Presen	t? Yes X No of Hydric Soils, Version 7.0, 2015 <u>ty Indicators (minimum of two require</u> ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface X High Wa X Saturatio Water M Sedimer Drift Dep	m is revised from Mic //www.nrcs.usda.gov. DGY drology Indicators: >ators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent In	/ersion 2 /nrcs142 apply) ined Lea una (B1 tic Plant Sulfide C hizosph of Reduc n Reduc	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Ddor (C1) eres on L ced Iron (tion in Ti	lude the N 293.docx)	Hydric Soil Present	t? Yes X No of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) pornhic Position (D2)
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India X Surface X High Wa X Surface X High Wa X Saturatic Water M Sedimer Drift Dep Algal Ma	m is revised from Mic //www.nrcs.usda.gov. DGY drology Indicators: <u>>ators (minimum of o</u> Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iro Thin Muck	/ersion 2 /nrcs142 apply) ined Lea una (B1) tic Plant: Sulfide C hizosph of Reduc sulface Sulface	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7)	lude the N 293.docx) iving Rod (C4) lled Soils	Hydric Soil Present	t? Yes X No of Hydric Soils, Version 7.0, 2015 Ty Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Tish Burrows (C8) Tation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) Torphic Position (D2) Neutral Teet (D5)
Type: Depth (ir Remarks: This data for Errata. (http: TYDROLC Wetland Hy Primary India X Surface X High Wa X Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	mis revised from Mid //www.nrcs.usda.gov DGY drology Indicators: <u>>ators (minimum of o</u> Water (A1) ter Table (A2) m (A3) arks (B1) it Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	twest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen 3 Oxidized R Presence of Recent Iro Thin Muck	/ersion 2 /nrcs142 apply) ined Lea una (B1 tic Plant: Sulfide C thizosph of Reduc n Reduc Surface Vell Dat	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9)	lude the N 293.docx) 	Hydric Soil Present NRCS Field Indicators NRCS Field Indicators Surfa Drair Dry-S Crayl ots (C3) Satur Stuni (C6) X Geor X FAC-	t? Yes X No of Hydric Soils, Version 7.0, 2015 Ty Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Type: Depth (ir Remarks: This data for Errata. (http: This data for Errata. (http: Algan Ma X Saturatic Water M Sedimer Drift Dep Algan Ma Iron Dep Inundatic	mis revised from Mic //www.nrcs.usda.gov DGY drology Indicators: zators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2) iosits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In	hagery (B	ional Supplement \ SE_DOCUMENTS ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen 1 Oxidized R Presence o Recent Iro Thin Muck 7) Gauge or V B8) Other (Evo	/ersion 2 /nrcs142 apply) ined Lea una (B1: tic Plant: Sulfide C thizosph of Reduc n Reduc Surface Vell Dat: lain in R	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9)	lude the N 293.docx) 	Hydric Soll Present NRCS Field Indicators Seconda	t? Yes X No of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requires ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India X Surface X High Wa X Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	m is revised from Mid //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2) iosits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave	Jwest Reg /Internet/F 	ional Supplement \ SE_DOCUMENTS ired; check all that i X Water-Stai Aquatic Fa True Aqua Hydrogen i Oxidized R Presence o Recent Iro Thin Muck 7) Gauge or \ B8) Other (Exp	/ersion 2 /nrcs142 apply) ined Lea una (B1: tic Plant: Sulfide C thizosph of Reduc n Reduc Sulface Vell Dat lain in R	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) eemarks)	lude the N 293.docx)	Hydric Soll Present	t? Yes X No of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
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Project/Site: Clover	Valley Road 515-Acre Site	City/Cou	unty: New Albany/	Licking		Sampling Date:	4-20-2022
Applicant/Owner:	The New Albany Company			State:	ОН	Sampling Point:	W-H-2
Investigator(s): Eric	Nagy, EMH&T	Section,	Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, to	errace, etc.): depression		Local relief (concav	ve, conv	vex, none):	concave	
Slope (%):	Lat: 40.096476°	Long:	-82.732538°			Datum:	
Soil Map Unit Name	: Bennington silt loam (BeB)			I	NWI classi	ification: NA	
Are climatic / hydrole	ogic conditions on the site typical for this time of ye	ear?	Yes X No		(If no, ex	plain in Remarks.)	
Are Vegetation	_, Soil, or Hydrologysignificantly dist	urbed?	Are "Normal Circum	stances	s" present?	? Yes <u>X</u> No	,
Are Vegetation	_, Soil, or Hydrologynaturally probler	natic?	(If needed, explain a	any ans	wers in Re	emarks.)	
SUMMARY OF	FINDINGS – Attach site map showing	sampli	ng point locatio	ons, tr	ansects	, important fea	tures, etc.
			a Commind Area				

Hydrophytic Vegetation Present?	Yes X	No	is the Sampled Area			
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes	х	No
Wetland Hydrology Present?	Yes X	No				
Remarks:						

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus palustris	40	Yes	FACW	Number of Dominant Species That
2. Fraxinus pennsylvanica	10	No	FACW	Are OBL, FACW, or FAC:4 (A)
3. Crataegus crus-galli	10	No	FAC	Total Number of Dominant Species
4. Acer saccharinum	10	No	FACW	Across All Strata: 5 (B)
5				Percent of Dominant Species That
	70	=Total Cover		Are OBL, FACW, or FAC: 80.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15')				
1. Cornus amomum	10	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 160 x 2 = 320
5.				FAC species 10 x 3 = 30
	10	=Total Cover		FACU species 10 x 4 = 40
Herb Stratum (Plot size: 5')		•		UPL species 0 x 5 = 0
1. Elymus virginicus	20	Yes	FACW	Column Totals 180 (A) 390 (B)
2. Carex spp.	70	Yes	FACW	Prevalence Index = B/A = 2.17
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.		- <u> </u>		X 2 - Dominance Test is >50%
7.		·		X 3 - Prevalence Index is ≤3.0 ¹
8.		·		4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.		·		Problematic Hydrophytic Vegetation ¹ (Explain)
	90	=Total Cover		
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic
1. Vitis labrusca	10	Yes	FACU	
2				Hydrophytic Versetation
	10	=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Depth	Matrix		Redo	x Featur	88			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹		Texture	Remarks
					<u>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
0-0		90						
6-12	10YR 3/1	98	10YR 3/4		<u> </u>	<u> </u>	Loamy/Clayey	Distinct redox concentrations
		·						·
		·						·
¹ Type: C=C	oncentration, D=Dep	letion, RM	I=Reduced Matrix, I	MS=Mas	ked Sand	d Grains.	² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicate	ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	eyed Mat	rix (S4)		<u>?</u> Coa	st Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy Re	dox (S5)			Iron	-Manganese Masses (F12)
Black Hi	istic (A3)		Stripped N	Aatrix (Se	3)		Rec	Parent Material (F21)
	en Sulfide (A4)		Dark Surfa	ace (S7)			Ver	y Shallow Dark Surface (F22)
Stratified	d Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Oth	er (Explain in Remarks)
 2 cm Mu	uck (A10)		Loamy Gl	eyed Mat	rix (F2)			
 Depleted	d Below Dark Surface	ə (A11)	Depleted I	Vatrix (F	3)			
Thick Da	ark Surface (A12)	. ,	X Redox Da	rk Surfac	, e (F6)		³ Indicate	ors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted I	Dark Sur	face (F7)	1	wet	and hydrology must be present.
5 cm Mi	ucky Peat or Peat (S	3)	? Redox De	pression	s (F8)		unle	ess disturbed or problematic.
Restrictive	Laver (if observed):							
Туре:								
Type: Depth (in Remarks: This data for Errata. (http:	nches): rm is revised from Mi ://www.nrcs.usda.gov	dwest Reg //Internet/I	gional Supplement	Version 2 S/nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Preser NRCS Field Indicato	nt? Yes X No
Type: Depth (i Remarks: This data for Errata. (http:	nches): rm is revised from Mi ://www.nrcs.usda.gov	dwest Reg //Internet/I	gional Supplement 1 SE_DOCUMENTS	Version 2 S/nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Presen NRCS Field Indicato	nt? Yes X No
Type: Depth (ii Remarks: This data for Errata. (http: HYDROLC	nches): rm is revised from Mi ://www.nrcs.usda.gov	dwest Re //Internet/I	gional Supplement \ SE_DOCUMENTS	Version 2 S/nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Presen	nt? Yes X No
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Project/Site: Clover	Valley R	oad 515-Acre Site		City/Co	ounty: New Alba	ny/ Licking		Sampling Date:	4-19-2022
Applicant/Owner:	The Ne	ew Albany Company				State:	ОН	Sampling Point:	W-I-1
Investigator(s): Eric I	Nagy, El	MH&T	S	ection,	Township, Range	∋: <u>T. 2 N;</u>	R. 15 W		
Landform (hillside, te	errace, e	tc.): depression			Local relief (con	icave, conve	x, none):	concave	
Slope (%):	Lat: 4	0.097927°		Long:	-82.732040°			Datum:	
Soil Map Unit Name:	Pewan	no silty clay loam (Pe)					NWI class	ification: NA	
Are climatic / hydrold	gic con	ditions on the site typica	I for this time of year?		Yes X	No	(If no, ex	oplain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbe	ed?	Are "Normal Circ	cumstances"	present?	Yes <u>X</u> No	»
Are Vegetation	, Soil	, or Hydrology	naturally problemati	ic?	(If needed, expla	ain any answ	ers in Rer	marks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_	<u>x</u>	No
Remarks:						

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
Quercus palustris 2	5	Yes	FACW	Number of Dominant Are OBL, FACW, or F	Species That AC:	2	(A)
3. 4.				Total Number of Dom Across All Strata:	inant Species	3	(B)
5	5	=Total Cover		Percent of Dominant Are OBL, FACW, or F	Species That [:] AC:	66.7%	_(A/B)
Saping/Snrub Stratum (Plot size:) 1.				Prevalence Index wo	orksheet:		
2				Total % Cover of	f:I	Multiply by:	_
3				OBL species) x1:	=	_
4				FACW species 1	0 x 2 :	=	_
5				FAC species) x3:	=	_
		_=Total Cover		FACU species 1	0 x 4 =	=	_
Herb Stratum (Plot size: 5')				UPL species) x5:	=	
1. Lysimachia nummularia	5	Yes	FACW	Column Totals: 2	0 (A)	60	_(B)
2				Prevalence Index	= B/A =	3.00	
3							
4				Hydrophytic Vegetat	tion Indicato	rs:	
5				1 - Rapid Test for	Hydrophytic	Vegetation	
6				X 2 - Dominance Te	est is >50%		
7				X 3 - Prevalence Inc	Jex is ≤3.0'		
8 9				4 - Morphological data in Remark	'Adaptations دs or on a sep	(Provide sup arate sheet)	oporting
10.				Problematic Hydr	ophytic Vege	tation ¹ (Expla	ain)
Woody Vine Stratum (Plot size: 15')	5	=Total Cover		¹ Indicators of hydric s present, unless distur	oil and wetlar bed or proble	nd hydrology matic.	must be
1. Vitis labrusca	10	Yes	FACU				
2.				Negetation			
	10	=Total Cover		Present? Yes	<u> </u>	٥	
Remarks: (Include photo numbers here or on a separate	e sheet.)						

Dippin Nature Nature Nature Nature Remarks 0-10 10YR 4/1 00 10YR 3/4 10 C PL Loamy/Clayey Distinct redox concentration 0-10 10YR 4/1 00 10YR 3/4 10 C PL Loamy/Clayey Distinct redox concentration 0	Profile Descr	iption: (Describe	to the dept	h needed to doo	ument ti	ne indica	ator or c	onfirm the absence o	of indicators.)	
(inches) Color (moist) % 1998 Los istuire Kernarks 0-10 10YR 4/1 00 10YR 3/4 10 C PL Leamy/Cleyey Distinct redox concentration 0 10YR 4/1 00 10YR 3/4 10 C PL Leamy/Cleyey Distinct redox concentration 1 10YR 4/1 00 10YR 3/4 10 C PL Leamy/Cleyey Distinct redox concentration 1 10YR 4/1 00 10YR 3/4 10 C PL Leamy/Cleyey Distinct redox concentration 1	Depth	Matrix		Red	ox Featur	res 1	1 2	- (_	
C-10 10YR 4/1 90 10YR 3/4 10 C PL Learny/Clayey Distinct redox concentration	(inches)	Color (moist)		Color (moist)		Type	Loc-	lexture	Remarks	
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Image:										
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Water Table Present? Yes X No Depth (inches): 6 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe)	Surface Wate	r Present? Ye	es X	No	Depth (i	nches): _	6			
Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe)	Water Table F	Present? Ye	es X	No	Depth (i	nches): _	6			
(includes capillary fringe)	Saturation Pre	esent? Ye	es X	No	Depth (i	nches): _	0	Wetland Hydrolog	gy Present? Yes <u>X</u> No	
	(includes capi	illary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Rec	orded Data (stream	gauge, mo	nitoring well, aeria	al photos	, previou	s inspec	tions), if available:		
Demodra	Dementer									
Kemarks:	Remarks:									

Project/Site: Clover Valley Road 515-Acre Site			unty: New Albany/	Sampling Date:	04/13/2022		
Applicant/Owner:	The New Albany Company			State:	ОН	Sampling Point:	WJ-1
Investigator(s): Bryan	Lombard, EMH&T	Section, 7	Township, Range:	T. 2 N; I	R. 15 W		
Landform (hillside, te	errace, etc.): depression		Local relief (concav	ve, conve	x, none):	concave	
Slope (%): 3	Lat: 40.102890°	Long: -	-82.733062°			Datum:	
Soil Map Unit Name:	pewamo silty clay loam (Pe)			N	WI classi	fication: None	
Are climatic / hydrolo	ogic conditions on the site typical for this time of	year?	Yes X No		(If no, exp	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly di	isturbed? /	Are "Normal Circum	istances"	present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrologynaturally probl	lematic? ((If needed, explain a	any answ	ers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach site map showing	g samplir	ng point locatio	ons, tra	nsects	, important fea	tures, etc.

Hydrophytic Vegetation Present?	Yes_	x	No	Is the Sampled Area			
Hydric Soil Present?	Yes	<u>x</u>	No	within a Wetland?	Yes X	_	No
Wetland Hydrology Present?	Yes_	X	No				
Remarks:							

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	90	Yes	FACW	Number of Dominant Species That
2. Quercus palustris	10	No	FACW	Are OBL, FACW, or FAC: <u>3</u> (A)
3				Total Number of Dominant Species
4				Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				
1. Lindera benzoin	20	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 10 x 1 = 10
4.				FACW species 120 x 2 = 240
5.				FAC species 0 x 3 = 0
	20	=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size:)				UPL species 0 x 5 = 0
1. Carex stricta	10	Yes	OBL	Column Totals: 130 (A) 250 (B)
2.				Prevalence Index = $B/A = 1.92$
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6				X 2 - Dominance Test is >50%
7		·		X 3 - Prevalence Index is <3 0 ¹
8		·		4 - Morphological Adaptations ¹ (Provide supporting
o		·		data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation ¹ (Explain)
	10	=Total Cover		
Woody Vine Stratum (Plot size:)				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.				Hydrophytic
2.				Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	ription: (Describe	to the depth	n needed to docu	ument ti	ne indica	ator or o	confirm the absence	of indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YB 3/1	80	10YR 5/4	20	<u> </u>	м	Loamy/Clavey	Distinct redox concentrations
	10110.0/1		1011(0/4				Loamyrolayey	Distinct redox concentrations
¹ Type: C=Co	oncentration, D=De	pletion, RM=F	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains	. ² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicator	rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coas	st Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iron-I	Manganese Masses (F12)
Black His	stic (A3)		Stripped N	latrix (Se	6)		Red	Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ice (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	yed Mat	rix (F2)			
Depleted	Below Dark Surfac	ж (А11)	Depleted N	/latrix (F	3)			
Thick Da	rk Surface (A12)		X Redox Dar	k Surfac	æ (F6)		³ Indicator	rs of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted D	Dark Sur	face (F7)	1	wetla	nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S	3)	Redox Dep	pression	s (F8)		unles	ss disturbed or problematic.
Restrictive I	aver (if observed	:						
Type:	N/A	,.						
Depth (in	iches):		_				Hydric Soil Present	r Yes X No
			_					
Remarks:	m is revised from N	lidwoot Dogio	nal Quantament)	loraion () () to inc	luda tha	NDCS Field Indicator	a of Hydria Saila Marajan 7.0. 2015
Frrata (http:	//www.prcs.usda.or	v/Internet/ES		/ersion 2 /prcs142	2.0 10 110 2n2 0512	100e line 293 door		s of Hydric Solis, version 7.0, 2015
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			/11/00/142	.p2_0012		~	
HIDROLU								
Wetland Hy	drology Indicators	:						
Primary Indic	<u>cators (minimum of</u>	one is require	ed; check all that a	apply)			<u>Seconda</u>	ry Indicators (minimum of two required)
X Surface	Water (A1)		X Water-Stai	ined Lea	ves (B9)		Surfa	ace Soil Cracks (B6)
X High Wa	ter Table (A2)		Aquatic Fa	iuna (B1	3)		X Drair	nage Patterns (B10)
X Saturatio	on (A3)		True Aqua	tic Plant	s (B14)		Dry-\$	Season Water Table (C2)
X Water M	arks (B1)		Hydrogen	Sulfide (Odor (C1))	Cray	fish Burrows (C8)
Sedimen	t Deposits (B2)		Oxidized F	Rhizosph	eres on l	_iving R	oots (C3) X Satu	ration Visible on Aerial Imagery (C9)
X Drift Dep	osits (B3)		Presence	of Reduc	ed Iron ((C4)	Stuni	ted or Stressed Plants (D1)
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	ls (C6) X Geor	norphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC-	-Neutral Test (D5)
X Inundatio	on Visible on Aerial	Imagery (B7)	Gauge or V	Nell Dat	a (D9)			
Sparsely	Vegetated Concav	e Surface (B8	3)Other (Exp	lain in R	emarks)			
Field Obser	vations:							
Surface Wat	er Present? Y	es X	No	Depth (i	nches): _	2		
Water Table	Present? Y	es X	No	Depth (i	nches):	2		
Saturation P	resent? Y	es X	No	Depth (i	nches):	0	Wetland Hydrolog	gy Present? Yes X No
(includes cap	oillary fringe)							
Describe Re	corded Data (stream	n gauge, mon	itoring well, aeria	l photos	, previou	s inspec	tions), if available:	
Remarks:								

Project/Site: Clover \	Valley Road 515-Acre Site	City/County: New Albany/	Licking	Sampling Date:	4-14-2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	W-K-1
Investigator(s): Eric N	lagy, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	errace, etc.): depression	Local relief (conca	ve, convex, none):	concave	
Slope (%):	Lat: 40.101283°	Long: -82.722655°		Datum:	
Soil Map Unit Name:	Bennington silt loam (BeB)		NWI classi	fication: NA	
Are climatic / hydrolo	gic conditions on the site typical for this time of ye	ear? Yes <u>X</u> No	o (If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circun	nstances" present?	Yes X No	,
Are Vegetation	, Soil, or Hydrology naturally probler	natic? (If needed, explain	any answers in Re	marks.)	
SUMMARY OF F	FINDINGS – Attach site map showing	sampling point locati	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes X	No

Remarks:

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer saccharinum	50	Yes	FACW	Number of Dominant Species That
2. Ulmus americana	30	Yes	FACW	Are OBL, FACW, or FAC: 4 (A)
3.				Total Number of Dominant Species
4.				Across All Strata: 4 (B)
5.				Percent of Dominant Species That
	80	=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15')				
1. Lindera benzoin	30	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 115 x 2 = 230
5.				FAC species 0 x 3 = 0
	30	=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5')				UPL species 0 x 5 = 0
1. Impatiens capensis	5	Yes	FACW	Column Totals: 115 (A) 230 (B)
2.				Prevalence Index = B/A = 2.00
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is >50%
7.				X 3 - Prevalence Index is $\leq 3.0^{1}$
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	5	=Total Cover		¹ Indicators of hydric soil and watland hydrology must
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
<u></u> , (* 61 0 - 01 <u></u>)				·····
2.				Hydrophytic Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sheet)			

Profile Desc	ription: (Describe	to the depti	needed to docu	ument ti	he indica	itor or c	confirm the a	bsence o	of indicators	i-)	
Depth	Matrix		Redox	x Featur	es 1	. 2					
(inches)	Color (moist)	<u> % </u>	Color (moist)		Type'	Loc	Textu	re		Remarks	
0-10	10YR 4/1	95	10YR 5/6	5	_ <u>C</u>	PL	Loamy/C	layey	Promine	nt redox conc	centrations
								<u>. </u>			
¹ Type: C=Co	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	/IS=Mas	ked Sand	Grains	i. 2	Location	: PL=Pore Li	ining, M=Mat	rix.
Hydric Soil	Indicators:							ndicator	s for Proble	matic Hydric	; Soils':
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		-	? Coas	t Prairie Red	ox (A16)	
Histic Ep	pipedon (A2)		Sandy Red	lox (S5)			-	Iron-N	Manganese N	/lasses (F12)	1
Black His	stic (A3)		Stripped M	latrix (Se	6)		-	Red F	Parent Materi	ial (F21)	
Hydroge	n Sulfide (A4)		Dark Surfa	ice (S7)			-	Very	Shallow Dark	CSurface (F2	:2)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		-	Other	r (Explain in F	Remarks)	
^{2 cm Mu}	ck (A10)		Loamy Gle	eyed Mat	rix (F2)						
Depleted	Below Dark Surface	e (A11)	X Depleted M	Aatrix (F	3)			L	.		
Thick Da	irk Surface (A12)		Redox Dar	k Surfac	æ (F6)		·	Indicator	s of hydrophy	tic vegetatio	n and
Sandy M	lucky Mineral (S1)			Jark Sur	tace (F7)			wetla	nd hydrology	must be pre	sent,
<u>5 cm Mu</u>	cky Peat or Peat (Sa	9		pression	s (⊦8)			unles	s disturbed o	r problematio	<u> </u>
Restrictive I	Layer (if observed):										
Type: _			_								
Depth (ir	nches):						Hydric Soil	Present	?	Yes X	No
Remarks:											
This data for	m is revised from Mi	dwest Regio	nal Supplement V	/ersion 2	2.0 to incl	lude the	NRCS Field	Indicators	s of Hydric So	oils, Version	7.0, 2015
Errata. (http:	//www.nrcs.usda.gov	/Internet/FS	E_DOCUMENTS/	/nrcs142	2p2_0512	93.doc)	K)				
	GT										
Wetland Hy	drology Indicators:									<i>.</i>	
Primary India	cators (minimum of c	ne is require	d; check all that a	apply)	(70)		5	Secondar	y Indicators ((minimum of	two required)
	water (A1)		X vvater-Stal	ined Lea	ives (B9)		-	Suna	ce Soli Craci	(S (B6)	
				iuna (B1 tie Dient	3) = (P14)		-		age Patterns	(B10) • Table (C2)	
	orko (R1)			uc Plant Sulfido (S (D14) Ddor (C1)		-	Diy-3	ich Burrowo		
	arks (DT) It Denosite (R2)			Sulliue (iving Pr	-	Crayi	ation Visible	on Aerial Im	
Drift Den	nosite (B3)			of Reduc	eles on l ed Iron (- (00)	Stunt	ed or Strees	ed Plants (D1	
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	- Is (C6)		nornhic Posit	ion (D2)	·)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		- (00)	X FAC-	Neutral Test	(D5)	
X Inundatio	on Visible on Aerial I	nagery (B7)	Gauge or \	Vell Dat	a (D9)		-	<u></u>		(20)	
Sparselv	Vegetated Concave	Surface (B8	3) X Other (Exp	lain in R	emarks)						
Eield Obser	vations		<u>,</u> (=.+	-	,						
Surface Wat	er Present? Va	e Y	No	Denth (i	nchee).	2					
Water Table	Present? Ye	s <u>x</u>	No	Depth (i	nches):	2					
Saturation P	resent? Ye	s X	No	Depth (i	nches):	0	Wetland	Hydrolog	v Present?	Yes X	No
(includes car	pillarv fringe)	• <u> </u>		- opu: (.	- יייייי	<u> </u>			,,,		
Describe Re	corded Data (stream	gauge, mor	nitoring well, aeria	l photos	, previou	s inspec	tions), if avail	able:			
	,		L) - - -				,,				
Remarks:											
Buttressed re	oots.										

Project/Site: Clover \	/alley Road 515-Acre Site Ci	ity/County	New Albany/	Licking		Sampling Date:	04/14/2022
Applicant/Owner:	The New Albany Company			State:	он	Sampling Point:	WL-1
Investigator(s): Bryan	Lombard, EMH&T Sec	ction, Tow	nship, Range:	T. 2 N; I	R. 15 W		
Landform (hillside, te	rrace, etc.): depression	Loo	al relief (conca	ve, conve	ex, none):	concave	
Slope (%): 5	Lat: 40.100689° L	_ong: <u>-82.</u>	722583°			Datum:	
Soil Map Unit Name:	pewamo silty clay loam (Pe)			N	WI classi	fication: PFO1C	
Are climatic / hydrolo	gic conditions on the site typical for this time of year?	? Ye	s <u>X</u> No)	(If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly disturbe	ed? Are	"Normal Circum	nstances'	' present?	Yes X No)
Are Vegetation	, Soil, or Hydrology naturally problemati	ic? (If n	eeded, explain a	any answ	vers in Re	marks.)	
SUMMARY OF	INDINGS – Attach site map showing sa	mpling	point locatio	ons, tra	ansects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes X	No

Remarks:

			Absolute	Dominant	Indicator			
Tree Stratum	(Plot size:	_)	% Cover	Species?	Status	Dominance Test worksheet:		
1. Acer saccharinu	ım		50	Yes	FACW	Number of Dominant Species That		
2.						Are OBL, FACW, or FAC:	3	(A)
3.						Total Number of Dominant Specie		-
4.						Across All Strata:	3	(B)
5						Descent of Descinent Creation That		-`-'
			50	=Total Cover		Are OBL EACW or EAC	100 0%	(A/B)
Sopling/Shrub Stro	um (Plot size:	、					100.078	-(~~)
Saping/Shirub Shar		'	40	Vaa				
1. Lindera benzoin			10	Yes	FACW	Prevalence index worksneet:		
2						Total % Cover of: N	lultiply by:	-
3						OBL species <u>80</u> x 1 =	80	_
4.						FACW species 60 x 2 =	120	_
5.						FAC species 0 x 3 =	0	_
			10	=Total Cover		FACU species 0 x 4 =	0	-
Herb Stratum	(Plot size:)				UPL species 0 x 5 =	. 0	-
1 Carex son	· · · · · · · · · · · · · · · · · · ·	_′	80	Yes	OBI	Column Totals: 140 (A)	200	- (B)
2						$\frac{1}{2} = \frac{1}{2} = \frac{1}$	1 43	-(-)
2							1.40	-
3								
4						Hydrophytic vegetation indicato	rs:	
5						1 - Rapid Test for Hydrophytic	Vegetation	
6						X 2 - Dominance Test is >50%		
7						X 3 - Prevalence Index is $\leq 3.0^{1}$		
8.						4 - Morphological Adaptations	l (Provide su	pporting
9.						data in Remarks or on a se	parate sheet)	
10.						Problematic Hydrophytic Vege	tation ¹ (Expla	ain)
			80	=Total Cover		¹ Indicators of hydric soil and wotla	, . d bydrology	muet
Woody Vine Stratur	m (Plot size:	١				be present, unless disturbed or pro-	blematic.	must
1	<u></u> (1.100.0120.	′						
1						Hydrophytic		
Z						Vegetation		
				= I otal Cover		Present? Yes X No	<u> </u>	
Remarks: (Include	photo numbers here or or	n a separ	ate sheet.)					

Profile Desc	ription: (Describe t	o the dept	h needed to docu	iment th	ne indica	itor or c	confirm the abs	ence of indicators.)	
Depth	Matrix		Redox	Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-12	10YR 3/1	90	10YR 5/4	10	c	м	Loamy/Clay	ey Distinct	redox concen	trations
								<u> </u>		
1							2,			
	oncentration, D=Depi	etion, RM=	Reduced Matrix, N	IS=Mas	ked Sand	Grains	s. LO	cation: PL=Pore Lin	ing, M=Matrix	(.
Hyaric Soli i	ndicators:		<u> </u>				ina	icators for Problem	natic Hydric 3	Solis":
Histosol	(A1)		Sandy Gley	yed Mati	rix (S4)			Coast Prairie Redo	x (A16)	
Histic Ep	ipedon (A2)		Sandy Red	lox (S5)				Iron-Manganese Ma	asses (⊢12)	
Black His	stic (A3)		Stripped M	atrix (Se	5)			Red Parent Materia	ll (F21)	
Hydrogen	n Sulfide (A4)		Dark Surfa	ce (S7)				Very Shallow Dark	Surface (F22))
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)			Other (Explain in R	emarks)	
2 cm Mu	ck (A10)		Loamy Gle	yed Mat	rix (F2)					
Depleted	Below Dark Surface	(A11)	Depleted M	latrix (F	3)					
Thick Da	rk Surface (A12)		X Redox Dar	k Surfac	e (F6)		°Inc	dicators of hydrophyt	ic vegetation	and
Sandy M	ucky Mineral (S1)		Depleted D	ark Sur	face (F7)	I		wetland hydrology r	nust be prese	ent,
5 cm Mu	cky Peat or Peat (S3)	Redox Dep	ression	s (F8)			unless disturbed or	problematic.	
Restrictive L	ayer (if observed):									
Туре:	N/A									
Depth (in	iches):						Hydric Soil Pi	resent?	Yes X	No
Remarks:										
This data for	m is revised from Mid	west Regio	onal Supplement V	ersion 2	2.0 to incl	lude the	NRCS Field Ind	licators of Hydric Soi	ls, Version 7.	0, 2015
Errata. (http:/	//www.nrcs.usda.gov/	/Internet/FS	SE_DOCUMENTS/	nrcs142	2p2_0512	93.doc	x)	·		
HYDROLO	GY									
Wetland Live	dre le av Indiantero									
	arology indicators:		adu abaali all that i	ann bea			Sec	ondon (Indiantoro (m	ainimeum of th	in required)
Primary India	ators (minimum of o	ne is requir	ed; check all that a					Condary Indicators (n	ninimum of tw	<u>vo requirea)</u>
	water (AT)			neu Lea	ves (69) 2)			- Surface Soli Cracks	5 (DO) (D40)	
	ier Table (AZ)			una (Bi	3) - (D14)					
	n (A3) adva (D4)			lic Plant	S (B14)			Dry-Season water		
	arks (BT) t Denesite (B2)			suinde C) 		Craynsh Burrows (C	20) m. Aarial Imaa	
Seaimen				nizospn	eres on l		$\cos(C3)$ X		n Aenai imag	lerà (Ca)
	usits (B3)		Presence (ion in Ti	(04) Nod Soil		- Stunted of Stressed		
	COLOUSE (B4)					1100 501		Geomorphic Positic	on (D2) DE)	
	USILS (DD) un Minihla an Annial In								00)	
	on visible on Aerial In	Durface (D)	Gauge or v	ven Dati	a (D9)					
Sparsely	vegetated Concave	Sunace (B		iain in R	emarks)					
Field Observ	vations:									
Surface Wate	er Present? Yes	s_X_	No	Depth (ii	nches): _	1				
Water Table	Present? Yes	s_X_	No	Depth (ii	nches): _	1				
Saturation P	resent? Yes	s_X_	No	Depth (ii	nches): _	0	Wetland Hy	drology Present?	Yes X	No
(includes cap	oillary fringe)							-		
Describe Red	corded Data (stream	gauge, mo	nitoring well, aerial	photos	, previou	s inspec	ctions), if availab	le:		
<u> </u>										
Remarks:										

Project/Site: Clover	Valley Road 515-Acre Site	City/County: New Albany/	Licking	Sampling Date:	4-14-2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	W-M-2
Investigator(s): Eric	Nagy, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	errace, etc.): depression	Local relief (conca	ve, convex, none):	concave	
Slope (%):	Lat: 40.102300°	Long: -82.722024°		Datum:	
Soil Map Unit Name	: Pewamo silty clay loam (Pe)		NWI classi	fication: NA	
Are climatic / hydrole	ogic conditions on the site typical for this time of y	ear? Yes <u>X</u> No) (If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circum	nstances" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrology naturally problem	matic? (If needed, explain	any answers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach site map showing	sampling point location	ons, transects	, important fea	tures, etc.
Hvdrophytic Vegeta	ation Present? Yes X No	Is the Sampled Area			

Hydrophytic Vegetation Present?	Yes <u>X</u>	No	Is the Sampled Area			
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes	x	No
Wetland Hydrology Present?	Yes X	No		_		
Remarks:						

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer saccharinum	30	Yes	FACW	Number of Dominant Species That
2. Ulmus americana	5	No	FACW	Are OBL, FACW, or FAC: <u>3</u> (A)
3. Quercus palustris	5	No	FACW	Total Number of Dominant Species
4				Across All Strata: 3 (B)
5.				Percent of Dominant Species That
	40	=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15')				
1. Lindera benzoin	15	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 105 x 2 = 210
5.				FAC species 0 x 3 = 0
	15	=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5')				UPL species $0 \times 5 = 0$
1. Carex spp.	50	Yes	FACW	Column Totals: 105 (A) 210 (B)
2.				Prevalence Index = B/A = 2.00
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is >50%
7.				X 3 - Prevalence Index is $\leq 3.0^{1}$
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	50	=Total Cover		¹ Indicators of hydric coil and wattend hydrology must
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
(* 100 0.20)				
2				Hydrophytic Venetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Depth	Matri	(Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 4/1	90	10YR 5/6	10	С	м	Loamy/Clayey	Prominent	t redox conce	ntrations
Type: C=Co	ncentration, D=D	epletion, RM	/=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Locatior	1: PL=Pore Lini	ing, M=Matrix	
Hydric Soil I	ndicators:						Indicato	rs for Problem	natic Hydric S	ioils ³ :
Histosol ((A1)		Sandy Gle	yed Mat	rix (S4)		<u>?</u> Coa	st Prairie Redox	x (A16)	
Histic Epi	ipedon (A2)		Sandy Rec	dox (S5)			Iron-	Manganese Ma	asses (F12)	
Black His	itic (A3)		Stripped N	latrix (Se	5)		Red	Parent Materia	ıl (F21)	
Hydrogen	n Sulfide (A4)		Dark Surfa	ice (S7)			Very	Shallow Dark S	Surface (F22)	
Stratified	Layers (A5)		Loamy Mu	CKY MIN	eral (F1)			er (Explain in Re	emarks)	
	CK (A1U) Deleve Deele Court	(844)		eyed Mai	(FIX (F2)					
Depieted	Below Dark Suri	ace (ATT)		viaurix (F	3) 20 (EB)		³ Indicata	ro of hydrophyti	io vocatation	and
Sandy Mi	ucky Mineral (S1			N Sullac	/= (F0) face (E7)	`	woth	and bydrology n	nuet be prese	nt
5 cm Muc	cky Peat or Peat	(\$3)	2 Redox Der	bression	s (F8)	,	unle	ss disturbed or	problematic	116,
		(00) d);				<u> </u>				
	ayer (if observe	aj:								
Depth (in	choc):						Hydric Soil Breson	+2	Vac V	No
Depth (in Remarks: This data forr Errata. (http://	ches): n is revised from /www.nrcs.usda.	Midwest Re 30v/Internet/	gional Supplement \ FSE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Presen	t? s of Hydric Soil	Yes X	No), 2015
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Project/Site: Clover \	/alley Road 515-Acre Site	City/County: New Alb	any/ Licking	Sampling Date:	4-20-2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	W-N-9
Investigator(s): Eric N	lagy, EMH&T	Section, Township, Rar	nge: <u>T. 2 N; R. 15 W</u>		
Landform (hillside, te	rrace, etc.): depression	Local relief (co	oncave, convex, none):	concave	
Slope (%):	Lat: 40.102681°	Long: <u>-82.721067°</u>		Datum:	
Soil Map Unit Name:	Pewamo silty clay loam (Pe)		NWI classif	fication: NA	
Are climatic / hydrolo	gic conditions on the site typical for this time of yea	ar? Yes <u>X</u>	No (If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distu	rbed? Are "Normal C	ircumstances" present?	Yes X No)
Are Vegetation	, Soil, or Hydrologynaturally problem	atic? (If needed, exp	plain any answers in Re	marks.)	
SUMMARY OF F	INDINGS – Attach site map showing s	ampling point lo	cations, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes X	No
Remarks:					

	Absolute	Dominant	Indicator							
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:						
1				Number of Dominant Species That						
2				Are OBL, FACW, or FAC: 2	_(A)					
3				Total Number of Dominant Species						
4.				Across All Strata: 3	(B)					
5				Percent of Dominant Species That						
		=Total Cover		Are OBL, FACW, or FAC: 66.7%	(A/B)					
Sapling/Shrub Stratum (Plot size: 15')					_					
1.				Prevalence Index worksheet:						
2.				Total % Cover of: Multiply by:						
3.				OBL species 0 x 1 = 0	-					
4.				FACW species 80 x 2 = 160	-					
5.				FAC species 0 x 3 = 0	-					
		=Total Cover		FACU species 0 x 4 = 0	-					
Herb Stratum (Plot size: 5')				UPL species 0 x 5 = 0	-					
1. Juncus effusus	40	Yes	FACW	Column Totals: 80 (A) 160	_ (B)					
2. Carex spp.	30	Yes	FACW	Prevalence Index = B/A = 2.00						
3. Aster spp.	10	No	FACW		-					
4. Setaria glauca	20	Yes	FAC	Hydrophytic Vegetation Indicators:						
5.				1 - Rapid Test for Hydrophytic Vegetation						
6.				X 2 - Dominance Test is >50%						
7.				\overline{X} 3 - Prevalence Index is $\leq 3.0^1$						
8.				4 - Morphological Adaptations ¹ (Provide su	pporting					
9.				data in Remarks or on a separate sheet)					
10.				Problematic Hydrophytic Vegetation ¹ (Exp	ain)					
	100	=Total Cover		¹ Indicators of hydric soil and wetland hydrology	must					
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.	must					
<u> </u>										
2.				Vegetation						
		=Total Cover		Present? Yes X No						
Remarks: (Include photo numbers here or on a separ	ate sheet.)									
Depth	Matrix	. <u> </u>	Redo	x Featur	es					
---	---	---	---	---	--	---	---	--	---	--
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	S
0-20	10YR 3/2	85	10YR 5/6	15	c	м	Loamy/Clayey	Pro	minent redox co	ncentrations
Type: C=Con	centration D=D	epletion RM	 =Reduced Matrix_N		ked San	d Grains	2l ocat	ion PI =Pi	ore Lining M=M	atrix
lydric Soil In	dicators:	opiotion, ran	interest indexed				Indica	tors for P	roblematic Hvd	ric Soils ³ :
Histosol (A	(1)		Sandy Gle	ved Mat	rix (S4)		2 C	hast Prairie	Redox (A16)	
Histic Epin	vedon (A2)		Sandy Re	dox (S5)	lix (0+)			n-Mangan	ese Masses (F1	2)
Black Histi	ic (A3)		Stripped M	latrix (SF	3)			n Mangan A Parent M	Aaterial (F21)	-)
	Sulfide (A4)		Dark Surfa	ace (97)	~			ny Shallow	v Dark Surface (I	-22)
Stratified I				icky Mine	aral (E1)		—	her (Evola	in in Remarke)	22)
2 cm Muck	(A10)			wed Mat	riv (⊑2)				in in itemaika)	
2 on widd	Relow Dark Surf		Loanny Git	Jatriv /⊏'	∧ (⊏∠) 3)					
			Depieted i	rk Surfac	5) 20 (E6)		³ India	tore of bud	Irophytic vocata	ion and
Sandy Mur	cky Mineral (S1)			Jork Sur	face (E7)	`		atland bydr		recent
5 cm Muck	w Peat or Peat ((53)	2 Redox De		ace (17) a (E8)	,		loce dietur	bed or problems	tic
				016331011	5 (1 0)		ŭ			
Restrictive La	iyer (if observe	d):								
-										
Type:									X \	
Type: Depth (inc Remarks: This data form Errata. (http://v	hes): is revised from www.nrcs.usda.g	Midwest Reg gov/Internet/F	gional Supplement V	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd	Yes Xes	No
Type: Depth (incl Remarks: This data form Errata. (http://v	hes): is revised from www.nrcs.usda.g	Midwest Reg gov/Internet/F	gional Supplement V	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd	Yes X	No
Type: Depth (incl Remarks: This data form Errata. (http://w	hes): is revised from www.nrcs.usda.g	Midwest Reg gov/Internet/F	gional Supplement V	/ersion 2 //nrcs142	2.0 to inc 2p2_0512	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd	Yes X	No
Type: Depth (incl Remarks: This data form Frrata. (http://v YDROLOG	hes): is revised from www.nrcs.usda.g SY rology Indicator	Midwest Reg gov/Internet/F	gional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd	Yes X	No
Type: Depth (incl Remarks: This data form Frrata. (http://v YDROLOG Vetland Hydr Primary Indica	hes): is revised from www.nrcs.usda.g Y ology Indicator tors (minimum c	Midwest Reg gov/Internet/F s: f one is requ	gional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142 apply)	2.0 to inc 2p2_0512	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd	Yes Xersio	No n 7.0, 2015
Type: Depth (incl Remarks: This data form Frrata. (http://v YDROLOG Vetland Hydr Primary Indica Surface W	hes): is revised from www.nrcs.usda.g SY rology Indicator tors (minimum c ater (A1)	Midwest Reg gov/Internet/F rs: of one is requ	gional Supplement \ FSE_DOCUMENTS <u>lired; check all that</u> Water-Sta	/ersion 2 /nrcs142 apply) ined Lea	2.0 to inc p2_0512	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd dary Indica urface Soil	Yes Xersio	No
Type: Depth (incl Remarks: This data form Trata. (http://w YDROLOG Yetland Hydr Primary Indica Surface W XHigh Wate	hes): is revised from www.nrcs.usda.g SY rology Indicator tors (minimum c fater (A1) or Table (A2)	Midwest Reg gov/Internet/F s: f one is requ	gional Supplement \ FSE_DOCUMENTS hired; check all that Water-Sta Aquatic Fa	/ersion 2 /nrcs142 apply) ined Lea auna (B1	2.0 to inc 2p2_0512 ves (B9) 3)	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd dary Indica urface Soil rainage Pai	Yes Xersio	No
Type: Depth (incl Remarks: This data form Trata. (http://w YDROLOG Yetland Hydr Primary Indica Surface W XSaturation	hes): is revised from www.nrcs.usda.g SY rology Indicator tors (minimum c dater (A1) or Table (A2) (A3)	Midwest Reg gov/Internet/F s: of one is requ	gional Supplement V -SE_DOCUMENTS nired; check all that Water-Sta Aquatic Fa True Aqua	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant	2.0 to inc 2p2_0512 ves (B9) 3) s (B14)	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd dary Indica urface Soil rainage Pai y-Season 1	Yes Xersio	No
Type: Depth (incl Remarks: This data form Trrata. (http://w YDROLOG Vetland Hydr Primary Indica Surface W X High Wate X Saturation Water Mar	hes): is revised from www.nrcs.usda.g SY ology Indicator tors (minimum c ater (A1) or Table (A2) (A3) rks (B1)	Midwest Reg gov/Internet/F s: of one is requ	gional Supplement \ FSE_DOCUMENTS hired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Ddor (C1	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd dary Indica urface Soil 'ainage Pai 'y-Season ' 'ayfish Buri	Yes Xersio	n 7.0, 2015
Type: Depth (incl Remarks: This data form Trata. (http://v YDROLOG Vetland Hydr Primary Indica Surface W X High Wate X Saturation Water Mar Sediment	hes): is revised from www.nrcs.usda.g by ology Indicator tors (minimum c ater (A1) or Table (A2) (A3) rks (B1) Deposits (B2)	Midwest Reg gov/Internet/F s: of one is requ	gional Supplement \ FSE_DOCUMENTS ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Ddor (C1 eres on l	lude the I 293.docx)	Hydric Soil Pres	ent? tors of Hyd dary Indica urface Soil rainage Par y-Season Y rayfish Burn aturation Vi	Yes Xersio	No
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Type: Depth (incl Remarks: This data form Frrata. (http://w YDROLOG Yetland Hydr Primary Indica Surface W X High Wate X Saturation Water Mar Sediment I Drift Depos Algal Mat c Iron Depos	hes): is revised from www.nrcs.usda.g by rology Indicator tors (minimum c dater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	Midwest Reg gov/Internet/F	gional Supplement V SE_DOCUMENTS iired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Irc Thin Muck	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Odor (C1 eres on l ced Iron (tion in Ti (C7)) Living Ro (C4)	NRCS Field Indica	ent? tors of Hyd dary Indica urface Soil ainage Pat y-Season Vi rayfish Burn aturation Vi unted or Si eomorphic AC-Neutral	Yes Iric Soils, Versio Ators (minimum of Cracks (B6) Iterns (B10) Water Table (C2 rows (C8) Isible on Aerial In tressed Plants (I Position (D2) Test (D5)	No
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Project/Site: Clover V	roject/Site: Clover Valley Road 515-Acre Site			unty:	New Alb	any/ Lic	king		Sampling Date:	4-14-2022
Applicant/Owner:	The N	lew Albany Company				s	tate:	ОН	Sampling Point:	W-0-19
Investigator(s): Eric N	lagy, E	EMH&T	Section,	Townsl	hip, Rang	ge: <u>T</u>	. 2 N; F	R. 15 W		
Landform (hillside, ter	rrace,	etc.): depression		Local	relief (co	oncave,	convex	, none):	concave	
Slope (%):	Lat:	40.101979°	Long:	-82.72	0295°				Datum:	
Soil Map Unit Name:	Benn	ington silt loam (BeB)					N	WI class	ification: NA	
Are climatic / hydrolog	gic co	nditions on the site typical	for this time of year?	Yes	х	No_		(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "N	ormal Ci	rcumsta	ances"	present?	Yes X No)
Are Vegetation	, Soil	, or Hydrology	_naturally problematic?	(If nee	ded, exp	lain any	answe	ers in Rer	narks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_	<u>x</u>	No
Remarks:						

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer saccharinum	60	Yes	FACW	Number of Dominant Species That
2. Ulmus americana	30	Yes	FACW	Are OBL, FACW, or FAC:(A)
3. Quercus palustris	10	No	FACW	Total Number of Dominant Species
4				Across All Strata:4_ (B)
5.				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15')		•		
1. Lindera benzoin	10	Yes	FACW	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 115 x 2 = 230
5.				FAC species 0 x 3 = 0
	10	=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5')		•		UPL species 0 x 5 = 0
1. Carex spp.	5	Yes	FACW	Column Totals: 115 (A) 230 (B)
2.				Prevalence Index = B/A = 2.00
3.				
4.		·		Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.		·		X 2 - Dominance Test is >50%
7.				X 3 - Prevalence Index is $\leq 3.0^{1}$
8				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	5	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Doptii			Redd	x reatur	62					
(inches)	Color (moist)	%	Color (moist)	_%	Type ¹	Loc ²	Texture		Remarks	
0-8	10YR 3/1	98	10YR 4/6	_2	<u> </u>	PL	Loamy/Clayey	Prominen	t redox conce	entrations
8-12	10YR 5/1	60	10YR 4/6	40	<u> </u>	<u>M</u>	Loamy/Clayey	Prominen	t redox conce	entrations
Type: C=Co	ncentration, D=Dep	etion, RM	=Reduced Matrix, N	∕IS=Masl	ked Sand	d Grains.	² Location	n: PL=Pore Lin	ning, M=Matrix	K .
Histosol (Histic Epi Black His Hydroger Stratified 2 cm Muc Depleted Thick Dai Sandy Mi 5 cm Muc	ndicators: A1) pedon (A2) tic (A3) N Sulfide (A4) Layers (A5) sk (A10) Below Dark Surface rk Surface (A12) ucky Mineral (S1) sky Peat or Peat (S3 aver (if observed):) (A11))	Sandy Gle Sandy Red Stripped M Dark Surfa Loamy Mu Loamy Gle Depleted M X Redox Dar Depleted I Redox Dep	yed Mati Jox (S5) latrix (S6 ice (S7) icky Mine ayed Mat Matrix (F: rk Surfac Dark Surf pression:	rix (S4) 5) rix (F2) 3) se (F6) face (F7) s (F8)	· T	Indicato ? Coa: Iron- Red Very Othe ³ Indicato weth unle	rs for Problem at Prairie Redox Manganese Ma Parent Materia Shallow Dark S or (Explain in Re rs of hydrophyt and hydrology n as disturbed or	natic Hydric : x (A16) asses (F12) Il (F21) Surface (F22) emarks) tic vegetation nust be prese problematic.	and ent,
Type: Depth (in temarks: his data forr rrata. (http:/	n is revised from Mid	Jwest Reg /Internet/F	iional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl	lude the 293.docx	Hydric Soil Preser	t? s of Hydric Soil:	Yes X	No
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Type: _ Depth (in Remarks: This data forr Errata. (http:// IYDROLO Wetland Hyd Primary Indic X_Surface V	ches): n is revised from Mir /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1)	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS ired; check all that : X_Water-Sta	version 2 /nrcs142 	2.0 to incl 2p2_0512	lude the 293.docx	Hydric Soil Preser	t? s of Hydric Soil: nry Indicators (n ace Soil Cracks	Yes X s, Version 7.0	No 0, 2015
Type: Depth (in Remarks: This data forr Errata. (http:// IYDROLO Wetland Hyd Primary Indic XSurface V XHigh Wat	ches): n is revised from Mik /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1) er Table (A2)	dwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS <u>ired; check all that</u> <u>X</u> Water-Sta Aquatic Fa	/ersion 2 i/nrcs142 apply) ined Lea iuna (B1:	2.0 to incl p2_0512 ves (B9) 3)	lude the 293.docx	Hydric Soil Preser	t? s of Hydric Soil: nry Indicators (n ace Soil Cracks nage Patterns (Yes X s, Version 7.0 ninimum of tv s (B6) (B10)	No), 2015 vo require
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Type: Depth (in/ Remarks: This data forr Errata. (http:// IYDROLO Wetland Hyd Primary Indic X Surface V X High Wate X Saturation X Water Ma Drift Depo Algal Mate Iron Depo X Inundatio X Sparsely Field Observ Surface Wate	ches): ches): n is revised from Mik /www.nrcs.usda.gov GY frology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) : Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ir Vegetated Concave /ations: or Present? Ye	dwest Reg /Internet/F 	ired; check all that i X Water-Sta 	/ersion 2 //nrcs142 apply) ined Lea auna (B1: tic Plant: Sulfide C thizosphi of Reduc n Reduc Sulfide C thizosphi of Reduc n Reduc Sulface Well Data plain in R	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on I ced Iron (tion in Ti (C7) a (D9) eemarks) nches): _) Living Rc (C4) Iled Soils	Hydric Soil Preser	t? s of Hydric Soil: ary Indicators (n ace Soil Cracks hage Patterns (Season Water ⁻ fish Burrows (C ration Visible o ted or Stressed morphic Positio -Neutral Test (I	Yes X s, Version 7.0 s, Version 7.0 (B10) Table (C2) C8) on Aerial Imag d Plants (D1) on (D2) D5)	No), 2015
Type: Depth (in/ Remarks: This data forr Errata. (http:// TYDROLO Wetland Hyd Primary Indic X Surface V X High Wat X Saturation X Water Ma Sediment Drift Depo Algal Mat Iron Depo X Inundatio X Sparsely Field Observ Surface Water	r is revised from Mil /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) : Deposits (B2) osits (B3) : or Crust (B4) osits (B5) n Visible on Aerial Ir Vegetated Concave rations: er Present? Ye	nagery (B' Surface (I s_X	ional Supplement \ SE_DOCUMENTS ired; check all that X Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen X Oxidized Fa Presence a Recent Iro Recent Iro Thin Muck 7) Gauge or \ B8) Other (Exp No	Version 2 //nrcs142 apply) ined Lea auna (B1: tic Plant: Sulfide C thizosphi of Reduc n Reduc Sulface Well Dat: bain in R Depth (ii Depth (ii	2.0 to incl 2.0 to incl 2.020512 ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) lemarks) nches): _ nches): _) Living Rc (C4) Iled Soils	Hydric Soil Preser	t? s of Hydric Soil: ary Indicators (n ace Soil Cracks hage Patterns (Season Water ⁻ fish Burrows (C ration Visible o ted or Stressed morphic Positio -Neutral Test (I	Yes X s, Version 7.0 s, Version 7.0 (B10) Table (C2) C8) on Aerial Imaged Plants (D1) on (D2) D5)	<u>No</u>), 2015 <u>vo requin</u> eery (C9)
Type: Depth (in/ Remarks: This data forr Errata. (http:// TYDROLO Wetland Hyd Primary Indic X Surface V X High Wat X Saturation X Saturation Algal Mat Iron Depo X Inundatio X Sparsely Field Observ Surface Wate Water Table Saturation Pr	n is revised from Mik /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) psits (B3) t or Crust (B4) psits (B5) n Visible on Aerial Ir Vegetated Concave rations: er Present? Ye esent? Ye	nagery (B' Surface (I s X s X s X	ired; check all that is se_DOCUMENTS ired; check all that is a constraint of the second secon	Version 2 //nrcs144 //nrcs144	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) 'emarks) nches): _ nches): _ nches): _) Living Rc (C4) Iled Soils	Hydric Soil Preser NRCS Field Indicator NRCS Field Indicator Seconda	t? s of Hydric Soil: ary Indicators (n ace Soil Cracks hage Patterns (Season Water ⁻ fish Burrows (C ration Visible o ted or Stressed morphic Positio -Neutral Test (I gy Present?	Yes X s, Version 7.0 ninimum of tw s (B6) (B10) Table (C2) C8) nn Aerial Imag d Plants (D1) on (D2) D5) Yes X	No), 2015 <u>vo requir</u> eery (C9)
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Type: _ Depth (in Remarks: This data forr Errata. (http:/ IYDROLO Wetland Hyd Primary Indic X Surface W X High Wat X Saturation X Sediment Drift Depo Algal Mat Iron Depo X Inundatio X Sparsely Field Observ Surface Wate Water Table I Saturation Pr (includes cap Describe Rec	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ir Vegetated Concave rations: r Present? Ye esent? Ye esent? Ye illary fringe) orded Data (stream	dwest Reg /Internet/F ne is requ nagery (B Surface (I s_X s_X s_X s_X gauge, mo	ired; check all that X Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen X Oxidized Fa Presence of Recent Iro Thin Muck 7) Gauge or N B8) Other (Exp No No No No No No Donitoring well, aeria	Version 2 (/nrcs142 apply) ined Lea auna (B1) itic Planta Sulfide C Alizosphi of Reduc n Reduc Surface Well Data blain in R Depth (ii Depth (ii Depth (ii Depth (ii	2.0 to incl 2p2_0512 ves (B9) 3) s (B14) Odor (C1) eres on I ced Iron (tion in Ti (C7) a (D9) a (D9) nches): _ nches): _ nches): _) Living Rc (C4) Iled Soils 8 8 0 5 inspect	Hydric Soil Preser NRCS Field Indicator NRCS Field Indicator Seconda Surfi Draii Dry- X Cray sots (C3) Stur s (C6) X Geo X FAC Wetland Hydrolc ions), if available:	t? s of Hydric Soil: ary Indicators (n ace Soil Cracks hage Patterns (Season Water ⁻ fish Burrows (C ration Visible o ted or Stressed morphic Positio -Neutral Test (I gy Present?	Yes X s, Version 7.0 ninimum of tw s (B6) (B10) Table (C2) C8) n Aerial Image d Plants (D1) on (D2) D5) Yes X	No

Project/Site: Clover \	/alley Road 515-Acre Site	City/County: New Albany/	Licking	Sampling Date:	04/14/2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	WP-1
Investigator(s): Bryan	Lombard, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	rrace, etc.): depression	Local relief (conca	ve, convex, none):	concave	
Slope (%): 8	Lat: 40.100887°	Long: -82.719055°		Datum:	
Soil Map Unit Name:	pewamo silty clay loam (Pe)		NWI classi	fication: PFO1C	
Are climatic / hydrolo	gic conditions on the site typical for this time of ye	ar? Yes <u>X</u> No) (If no, exp	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly dist	Irbed? Are "Normal Circun	nstances" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrologynaturally problem	natic? (If needed, explain	any answers in Re	marks.)	
SUMMARY OF F	FINDINGS – Attach site map showing	sampling point location	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	80	Yes	FACW	Number of Dominant Species That
2. Quercus palustris	10	No	FACW	Are OBL, FACW, or FAC: 5 (A)
3.				Total Number of Dominant Species
4.				Across All Strata: 5 (B)
5.				Percent of Dominant Species That
	90	=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:)				
1. Lindera benzoin	15	Yes	FACW	Prevalence Index worksheet:
2. Lindera benzoin	5	Yes	FACW	Total % Cover of: Multiply by:
3.				OBL species 3 x 1 = 3
4.				FACW species 112 x 2 = 224
5.				FAC species 0 x 3 = 0
	20	=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size:)				UPL species $0 \times 5 = 0$
1. Carex stricta	3	Yes	OBL	Column Totals 115 (A) 227 (B)
2. Cinna arundinacea	2	Yes	FACW	Prevalence Index = B/A = 1.97
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is >50%
7.				X 3 - Prevalence Index is $\leq 3.0^{1}$
8.				4 - Morphological Adaptations ¹ (Provide supporting
9				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	5	=Total Cover		
Woody Vine Stratum (Plot size:)				be present, unless disturbed or problematic.
1				
2				Hydrophytic Venetation
L		=Total Cover		vegetation Present? Ves X No
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Profile Description: (De	scribe to the dep	th needed to docu	ument ti	ne indica	itor or c	onfirm the absence o	of indicators.)
Depth N	latrix	Redo	x Featur	es			
(inches) Color (m	oist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12 10YR 2	<u> </u>	10YR 5/4	10	<u> </u>	м	Loamv/Clavev	Distinct redox concentrations
						2,	
Type: C=Concentration,	D=Depletion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	Grains		: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:						Indicator	s for Problematic Hydric Soils":
Histosol (A1)		Sandy Gle	yed Mat	rix (S4)		Coas	t Prairie Redox (A16)
Histic Epipedon (A2)		Sandy Rec	lox (S5)			Iron-I	Manganese Masses (F12)
Black Histic (A3)		Stripped M	latrix (St	5)			Parent Material (F21)
Hydrogen Sulfide (A4)	1	Dark Surfa	ce (S7)			Very	Shallow Dark Surface (F22)
Stratified Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Other	r (Explain in Remarks)
2 cm Muck (A10)		Loamy Gle	yed Mat	rix (F2)			
Depleted Below Dark	Surface (A11)	Depleted N	Aatrix (F	3)		9	
Thick Dark Surface (A	.12)	X Redox Dar	k Surfac	æ (F6)		Indicator	s of hydrophytic vegetation and
Sandy Mucky Mineral	(S1)	Depleted [Dark Sur	face (F7)		wetla	nd hydrology must be present,
5 cm Mucky Peat or F	eat (S3)	Redox Dep	pression	s (F8)		unles	s disturbed or problematic.
Restrictive Layer (if obs	erved):						
Туре:	N/A						
Depth (inches):						Hydric Soil Present	? Yes X No
Remarks:							
This data form is revised f	rom Midwest Regi	ional Supplement \	/ersion 2	2.0 to inc	ude the	NRCS Field Indicators	s of Hydric Soils, Version 7.0, 2015
Errata. (http://www.nrcs.us	3da.gov/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	93.doc>	<)	
HYDROLOGY							
Wetland Hydrology Indig	ators:						
Primary Indicators (minim	um of one is requi	red: check all that :	annly)			Secondar	v Indicators (minimum of two required)
X Surface Water (A1)		X Water-Stai	ned Lea	ves (RQ)		<u>Surfa</u>	ce Soil Cracks (B6)
X High Water Table (A2	۱		una (B1	3) 3)		Ouna	age Patterns (B10)
X Saturation (A3)	,		tic Plant	⊂, s (R14)		Drv-S	Season Water Table (C2)
X Water Marks (B1)		Hydrogen	Sulfide (o (⊡ i≕))dor (C1)		Crave	ish Burrows (C8)
X Sediment Deposits (B	2)	Oxidized R	hizosph	eres on l	, ivina Ri	oots (C3) X Satur	ation Visible on Aerial Imagery (C9)
X Drift Deposits (B3)	-,	Presence	of Reduc	ed Iron (C4)	Stunt	ed or Stressed Plants (D1)
Algal Mat or Crust (B4	.)	Recent Iro	n Reduc	tion in Ti	lled Soil	s (C6) X Geor	norphic Position (D2)
Iron Deposits (B5)	/	Thin Muck	Surface	(C7)		FAC-	Neutral Test (D5)
X Inundation Visible on	Aerial Imagery (B7	() Gauge or)	Nell Dat	(0)) a (D9)			
		38) Other (Exc	lain in R	emarks)			
Sparsely Vegetated C	oncave Surface (L	···/ • ···· (·					
Sparsely Vegetated C							
Sparsely Vegetated C Field Observations:		No	Dooth /i		E		
Sparsely Vegetated C Field Observations: Surface Water Present?	Yes X	No	Depth (i	nches): _	5		
Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Sofuration Present?	Yes X Yes X Yes X	No No	Depth (i Depth (i	nches): _ nches): _	5 5	Wotland Hydralad	w Present? Yes Y No
Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary frince)	Yes X Yes X Yes X Yes X	No No No	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _	5 5 0	Wetland Hydrolog	gy Present? Yes X No
Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes X Yes X Yes X Yes X	No No No	Depth (ii Depth (ii Depth (ii	nches): _ nches): _ nches): _	5 5 0	Wetland Hydrolog	gy Present? Yes X No
Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes X Yes X Yes X Yes X stream gauge, mo	No No No onitoring well, aeria	Depth (ii Depth (ii Depth (ii I photos	nches): _ nches): _ nches): _ , previou:	5 5 0 s inspec	Wetland Hydrolog	gy Present? Yes <u>X</u> No
Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes X Yes X Yes X Yes X stream gauge, mo	No No No onitoring well, aeria	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _ , previou:	5 5 0 s inspec	Wetland Hydrolog tions), if available:	gy Present? Yes <u>X</u> No
Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data Remarks:	Yes X Yes X Yes X Yes X stream gauge, mc	No No No onitoring well, aeria	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _ , previou:	5 5 0 s inspec	Wetland Hydrolog	gy Present? Yes X No

Project/Site: Clover	oject/Site: Clover Valley Road 515-Acre Site		/ Licking		_ Sampling Date:	4-20-2022
Applicant/Owner:	The New Albany Company		_State:	ОН	Sampling Point:	W-Q-1
Investigator(s): Eric	Nagy, EMH&T	Section, Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, i	terrace, etc.): depression	Local relief (conc	ave, conv	ex, none)	: concave	
Slope (%):	Lat: 40.100800°	Long: <u>-82.715072°</u>				
Soil Map Unit Name	e: Condit silt loam (Cn)		<u> </u>	WI class	sification: NA	
Are climatic / hydro	logic conditions on the site typica	al for this time of year? Yes X N	o	(If no, ex	kplain in Remarks.)	
Are Vegetation	_, Soil, or Hydrology	_significantly disturbed? Are "Normal Circu	mstances	" present	? Yes <u>X</u> No	·
Are Vegetation	_, Soil, or Hydrology	naturally problematic? (If needed, explair	n any answ	vers in R	emarks.)	
SUMMARY OF	FINDINGS – Attach site	map showing sampling point locat	ions, tr	ansect	s, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_X_	No
Remarks:					

	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:	
1. Quercus bicolor	50	Yes	FACW	Number of Dominant Species That	
2. Ulmus americana	20	Yes	FACW	Are OBL, FACW, or FAC: 7	(A)
3. Quercus palustris	30	Yes	FACW	Total Number of Dominant Species	
4.				Across All Strata: 7	(B)
5.				Percent of Dominant Species That	
	100	=Total Cover		Are OBL, FACW, or FAC: 100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15')		•			
1. Lindera benzoin	10	Yes	FACW	Prevalence Index worksheet:	
2. Rosa palustris	5	Yes	OBL	Total % Cover of: Multiply by:	
3.				OBL species 5 x 1 = 5	
4.				FACW species 135 x 2 = 270	
5.				FAC species 5 x 3 = 15	
	15	=Total Cover		FACU species 0 x 4 = 0	
Herb Stratum (Plot size: 5')		-		UPL species 0 x 5 = 0	
1. Carex spp.	10	Yes	FACW	Column Totals: 145 (A) 290	(B)
2. Cinna arundinacea	15	Yes	FACW	Prevalence Index = B/A = 2.00	
3. Galium spp.	5	No	FAC		
4.				Hydrophytic Vegetation Indicators:	
5.				1 - Rapid Test for Hydrophytic Vegetation	
6.				X 2 - Dominance Test is >50%	
7.				\overline{X} 3 - Prevalence Index is $\leq 3.0^1$	
8.				4 - Morphological Adaptations ¹ (Provide sup	porting
9.				data in Remarks or on a separate sheet)	
10.		·		Problematic Hydrophytic Vegetation ¹ (Explai	in)
	30	=Total Cover		¹ Indicators of bydric soil and wetland bydrology r	nust
Woody Vine Stratum (Plot size: 15')		•		be present, unless disturbed or problematic.	
1.				Hydrophytic	
2.				Vegetation	
		=Total Cover		Present? Yes X No	
Remarks: (Include photo numbers here or on a separ	ate sheet.)				
Buttonbush is located in the center of the wetland.	,				

Profile Desc	ription: (Describe f	to the dept	h needed to docu	ument th	ne indica	ator or o	confirm the absence	of indicators.)		
Depth	Matrix		Redox	k Feature	əs					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	10YR 4/1	90	10YR 5/6	10	c	м	Loamy/Clayey	Prominent redox concentrations		
	ncentration D=Den	etion RM=I	Reduced Matrix N	 IS=Mael	red Sand	d Grains	² Location	. PI = Pore Lining M=Matrix		
Hydric Soil	ndicators			10-11031			Indicato	rs for Problematic Hydric Soils ³		
Histosol	(Δ1)		Sandy Gle	ved Mati	riv (S4)		2 Coa	st Prairie Redox (A16)		
Histic En	inedon (A2)		Sandy Ber	lox (S5)	IX (0+)		lron-	Manganese Masses (F12)		
Black His	stic (A3)		Stripped M	atrix (S6	3		Red	Parent Material (F21)		
Hvdrogen Sulfide (A4) Dark Surface (S7)							Verv	Shallow Dark Surface (F22)		
Stratified Lavers (A5)							Othe	er (Explain in Remarks)		
2 cm Mu	ck (A10)		Loamy Gle	ved Mat	rix (F2)					
Depleted	Below Dark Surface	(A11)	X Depleted N	Aatrix (E:	3)					
Thick Da	rk Surface (A12)		Bedox Dar	k Surfac	e (F6)		³ Indicato	rs of hydrophytic vegetation and		
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)							wetla	and hydrology must be present.		
5 cm Mucky Peat or Peat (S3) ? Redox Depressions (F8)							unless disturbed or problematic			
Restrictive I	aver (if observed):	,			. ,			•		
Type.	ayer (il observed).									
Depth (ir	chee):						Hydric Soil Presen	t? Ves X No		
			_							
Remarks:	m in my in ad from Mic	huset Decis	and Crimplement)	(analam C	0.40 inc		NDCC Field Indiantes	n of Undrig Colle, Marsian 7.0, 2015		
Frrata (http:	m is revised from Mid //www.nrcs.usda.dov	Internet/ES	F DOCUMENTS	/ersion 2 /nrcs142	no 10 inc 202 0512	iude the 293 docu		s of Hydric Solis, Version 7.0, 2015		
	,						7			
	GY									
	••••									
Wetland Hy	arology indicators:						Q			
Primary mulo	Alotor (A1)	ne is require	Y Water Stei				<u>Seconda</u>	ry Indicators (minimum of two required)		
	tor Toble (A2)				ves (D9) 2)			ace Soli Clacks (B6)		
				una (Di-	3) 5 (1214)			Rage Patterns (BTU)		
	ni (AS) orke (B1)			sulfido (5 (D14))dor (C1)	、		fieb Burrows (C2)		
Sedimen	t Deposits (B2)			bizoenh		/ Livina R	oots (C3) Satu	ration Visible on Aerial Imagery (C9)		
Drift Den	neite (B3)			of Reduc			Stun	ted or Stressed Plants (D1)		
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	(C6) X Geol	morphic Position (D2)		
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		$\frac{1}{2}$	-Neutral Test (D5)		
X Inundatio	on Visible on Aerial In	nagery (B7)	Gauge or \	Vell Data	(0.) a (D9)					
Sparselv	Vegetated Concave	Surface (B)	B) Other (Exp	lain in R	emarks)					
Eield Obser	vations		-, <u> </u>		,					
Surface Wat	allons. ar Dracant? Va	a Y	No	Denth (ii	hopes).	4				
Water Table	Present? Ve	$\frac{3}{x}$	No	Depth (ii Depth (ii	nches).					
Saturation P	resent? Ve		No	Depth (ii Depth (ii	nchee).		Wetland Hydrolo	av Present? Ves X No		
(includes car	villary fringe)	<u>, </u>		Depui (ii	icites)		Wetland Hydrolo			
Describe Re	corded Data (stream	dande wol	nitoring well aeria	l photos	previou	s inspec	tions) if available.			
		g==g0, m0		. p. 10100,						
Remarks:										

Project/Site: Clover \	ject/Site: Clover Valley Road 515-Acre Site		City/County: New Albany/ Licking			Sampling Date:	03/2/2022
Applicant/Owner:	The New Albany Compa	ny		State:	ОН	Sampling Point:	WR-1
Investigator(s): Eric N	lagy, EMH&T	Section,	Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, te	errace, etc.): depression		Local relief (conca	ve, conve	ex, none):	concave	
Slope (%): 3	Lat: 40.104640°	Long:	-82.711724°			Datum:	
Soil Map Unit Name:	Bennington (BeB)			N	WI classi	fication: None	
Are climatic / hydrolo	gic conditions on the site	typical for this time of year?	Yes <u>X</u> No		(If no, exp	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrolog	ysignificantly disturbed?	Are "Normal Circun	nstances	" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrolog	ynaturally problematic?	(If needed, explain	any ansv	vers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach	site map showing sampli	ng point locati	ons, tra	ansects	, important fea	tures, etc.

Hydrophytic Vegetation Present?	Yes_	x	No	Is the Sampled Area			
Hydric Soil Present?	Yes	<u>x</u>	No	within a Wetland?	Yes X	_	No
Wetland Hydrology Present?	Yes_	X	No				
Remarks:							

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer saccharinum	80	Yes	FACW	Number of Dominant Species That
2. Quercus palustris	20	Yes	FACW	Are OBL, FACW, or FAC:6(A)
3				Total Number of Dominant Species
4.				Across All Strata: 6 (B)
5.				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:)			
1. Lindera benzoin	15	Yes	FACW	Prevalence Index worksheet:
2. Fraxinus pennsylvanica	15	Yes	FACW	Total % Cover of: Multiply by:
3.				OBL species 15 x 1 = 15
4.				FACW species 145 x 2 = 290
5.				FAC species 0 x 3 = 0
	30	=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size:)				UPL species $0 \times 5 = 0$
1. Carex stricta	15	Yes	OBL	Column Totals 160 (A) 305 (B)
2. Cinna arundinacea	15	Yes	FACW	Prevalence Index = B/A = 1.91
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is >50%
7.				X 3 - Prevalence Index is ≤3.0 ¹
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	30	=Total Cover		¹ Indicators of hydric soil and watland hydrology must
Woody Vine Stratum (Plot size:				be present, unless disturbed or problematic.
<u> </u>				
2.		·		Hydrophytic Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Profile Des	cription: (Describe	to the de	oth needed to doc	ument ti	he indica	ator or o	confirm the absence	of indicators.)		
Depin		0/				1.0.02	T f	Deveeder		
(inches)		<u>%</u>	Color (moist)		Туре	LOC		Remarks		
0-3	10YR 3/1	100					Loamy/Clayey			
3-12	10YR 3/1	95	10YR 4/6		<u> </u>	<u> </u>	Loamy/Clayey	Prominent redox concentrations		
12-16	10YR 3/1	90	10YR 4/6	10	_ <u>C</u>	M	Loamy/Clayey	Prominent redox concentrations		
16-20	10YR 3/1	100					Loamy/Clayey			
_										
¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	MS=Mas	ked Sand	Grains	s. ² Location	n: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicato	rs for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coa	st Prairie Redox (A16)		
Histic E	pipedon (A2)		Sandy Ree	dox (S5)			Iron-	-Manganese Masses (F12)		
Black H	istic (A3)		Stripped N	latrix (Se	6)		Red	Parent Material (F21)		
Hydroge	en Sulfide (A4)		Dark Surfa	ace (S7)			Very	/ Shallow Dark Surface (F22)		
Stratifie	d Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Othe	er (Explain in Remarks)		
2 cm Mı	uck (A10)		Loamy Gle	eyed Mat	trix (F2)					
Deplete	d Below Dark Surface	ə (A11)	Depleted M	Matrix (F	3)					
Thick Da	ark Surface (A12)		X Redox Da	rk Surfac	æ (F6)		³ Indicato	rs of hydrophytic vegetation and		
Sandy N	lucky Mineral (S1)		Depleted [Dark Sur	face (F7)	1	wetland hydrology must be present,			
5 cm Mucky Peat or Peat (S3)Redox Depressions (F8) unless disturbed or						ss disturbed or problematic.				
Restrictive	Layer (if observed):									
Type:	N/A									
Depth (i	nches):						Hydric Soil Presen	t? Yes X No		
					-pz_0012		^)			
HYDROLU	JGY									
Wetland Hy	drology Indicators:									
Primary Indi	cators (minimum of c	one is requ	ired; check all that	apply)	(7.6)		<u>Seconda</u>	ary Indicators (minimum of two required)		
	Water (A1)		X Water-Sta	ined Lea	ives (B9)		Surfa	ace Soll Cracks (B6)		
	ater I able (A2)			auna (B1	3) - (D14)			nage Patterns (B10)		
	on (A3) Iarka (B1)			NUC Plant	S (B14)	`				
Valer IV	iarks (BT)		Hydrogen	Suinde () Julna D	Liay	unish Burrows (Co)		
Drift Do	nic Depusits (B2)			of Poduk		LIVILIY R CAL	Stun	ated or Stressed Plants (D1)		
	ousits (B3)		Presence		tion in Ti	(U4) lled Soi		morphic Position (D2)		
	acon Crusi (B4)		Thin Muck			lieu Sui		Neutral Test (D5)		
Inundati	on Visible on Aerial II	manery (R		Well Dat	a (D9)					
Sparsely	Venetated Concave	Surface (R8) Other (Exr	vven Dat slain in R	emarks)					
Openoor										
Surface Wa	tor Present? Ve	e V	No	Depth (i		1				
Water Table	Present? Va		No	Depth (i	nches):	<u>'</u>				
Saturation F	Present? Ve	<u>s X</u>	No	Depth (i	nches): _	<u>,</u>	Wetland Hydrolo	av Present? Yes X No		
(includes ca	pillary fringe)	<u></u>	<u> </u>	Bopar (i						
Describe Re	corded Data (stream	gauge. m	onitoring well. aeria	I photos	, previou	s inspec	tions), if available:			
	(J (J,),),	G				<i>,,</i>			
Remarks:										

Project/Site: Clover \	oject/Site: Clover Valley Road 515-Acre Site		Licking	Sampling Date:	03/9/2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	W-S-1
Investigator(s): Eric N	lagy, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	rrace, etc.): depression	Local relief (conca	ive, convex, none):	concave	
Slope (%):	Lat: 40.104620°	Long: -82.712561°		Datum:	
Soil Map Unit Name:	Bennington (BeB)		NWI classi	fication: None	
Are climatic / hydrolo	gic conditions on the site typical for this time of ye	ar? Yes <u>X</u> No	o (If no, exp	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circur	nstances" present?	Yes <u>X</u> No	·
Are Vegetation	, Soil, or Hydrologynaturally problem	atic? (If needed, explain	any answers in Re	marks.)	
SUMMARY OF F	FINDINGS – Attach site map showing s	ampling point locati	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes_X_No
Remarks:				

	Absolute	Dominant	Indicator		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:	
1. Acer saccharinum	70	Yes	FACW	Number of Dominant Species That	
2. Quercus palustris	30	Yes	FACW	Are OBL, FACW, or FAC: 5 (A))
3.				Total Number of Dominant Species	
4.				Across All Strata: 6 (B))
5.				Percent of Dominant Species That	
	100	=Total Cover		Are OBL, FACW, or FAC: 83.3% (Av	/B)
Sapling/Shrub Stratum (Plot size:)					
1. Lindera benzoin	10	Yes	FACW	Prevalence Index worksheet:	
2. Rosa multiflora	30	Yes	FACU	Total % Cover of: Multiply by:	
3.				OBL species 30 x 1 = 30	
4.				FACW species 160 x 2 = 320	
5.				FAC species 0 x 3 = 0	
	40	=Total Cover		FACU species 30 x 4 = 120	
Herb Stratum (Plot size:)				UPL species $0 \times 5 = 0$	
1. Carex spp.	50	Yes	FACW	Column Totals: 220 (A) 470 (B))
2. Cinna arundinacea	30	Yes	OBL	Prevalence Index = B/A = 2.14	
3.					
4.				Hydrophytic Vegetation Indicators:	
5.				1 - Rapid Test for Hydrophytic Vegetation	
6.				X 2 - Dominance Test is >50%	
7.		·		\overline{X} 3 - Prevalence Index is $\leq 3.0^{1}$	
8.		·		4 - Morphological Adaptations ¹ (Provide suppor	rting
9.		·		data in Remarks or on a separate sheet)	-
10.				Problematic Hydrophytic Vegetation ¹ (Explain)	
	80	=Total Cover		¹ Indicators of hydric soil and wetland hydrology mus	et
Woody Vine Stratum (Plot size:)				be present, unless disturbed or problematic.	
1,				Ludroph, tio	
2.				Vegetation	
		=Total Cover		Present? Yes X No	
Remarks: (Include photo numbers here or on a separate	ate sheet.)				

(inches)	Color (moist) %		ox Feature	es			
0-12		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
	10YR 3/1 85	10YR 4/6	15	c	м	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=Conce	entration, D=Depletion,	RM=Reduced Matrix,	MS=Mas	ked Sand	Grains.	. ² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil Indi	icators:					Indicator	s for Problematic Hydric Soils ³ :
Histosol (A1))	Sandy GI	eyed Matr	ix (S4)		Coas	t Prairie Redox (A16)
Histic Epipeo	don (A2)	Sandy Re	edox (S5)			Iron-I	Manganese Masses (F12)
Black Histic	(A3)	Stripped I	Matrix (S6)		Red I	Parent Material (F21)
Hydrogen Su	ulfide (A4)	Dark Surf	face (S7)			Very	Shallow Dark Surface (F22)
Stratified Lay	yers (A5)	Loamy M	ucky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Muck ((A10)	Loamy Gi	leyed Mat	rix (F2)			
Depleted Be	low Dark Surface (A11) X Depleted	Matrix (F3	3)		9	
Thick Dark S	Surface (A12)	X Redox Da	ark Surfac	e (F6)		Indicator	s of hydrophytic vegetation and
Sandy Muck	Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology			nd hydrology must be present,			
5 cm Mucky	Peat or Peat (S3)	Redox De	epressions	s (F8)	unless disturbed or problematic.		
Restrictive Laye	er (if observed):						
Туре:	N/A						
Depth (inche	əs):					Hydric Soil Present	? Yes <u>X</u> No
HYDROLOGY	r						
Wetland Hydrol	logy Indicators:						
Primary Indicato	rs (minimum of one is i	required; check all that	t apply)			<u>Secondai</u>	
	ter (A1)	X Water-Sta	ained Lea	ves (B9)			y Indicators (minimum of two required
X Surface Wat			(D.4 ·	. .		Surfa	y Indicators (minimum of two required ce Soil Cracks (B6)
X Surface Wat			auna (B1	3)		Surfa Drain	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10)
X Surface Wat X High Water	43) - (D4)	Aquatic F	atic Plants	3) s (B14)		Surfa Drain Dry-S	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Geason Water Table (C2)
X Surface Wat X High Water X Saturation (A Water Marks	A3) s (B1)	Aquatic F True Aqu Hydrogen	atic Plants Sulfide C	3) s (B14))dor (C1)	iving D	Surfa Drain Dry-S Crayi	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8)
X Surface Wal X High Water X Saturation (/ Water Marks Sediment De	A3) s (B1) eposits (B2)	Aquatic FTrue AquTrue AquHydrogenOxidized	atic Plants Sulfide C Rhizosph	3) s (B14))dor (C1) eres on L	iving Ro	Surfa Drain Dry-S Crayl pots (C3)Satur	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
X Surface Wat X High Water X Saturation (# Water Marks Sediment De Drift Deposit	A3) s (B1) eposits (B2) is (B3)	Aquatic F True Aqu Hydroger Oxidized Presence	atic Plants Sulfide C Rhizosphe of Reduc	3) s (B14) Odor (C1) eres on L ed Iron (iving Ro C4)	Surfa Drain Dry-5 Crayf pots (C3)Satur Stunt	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
X Surface Wal X High Water X Saturation (/ Water Marks Sediment De Drift Deposit Algal Mat or	A3) s (B1) eposits (B2) is (B3) Crust (B4)	Aquatic F True Aqu Hydroger Oxidized Presence Recent In	atic Plants o Sulfide C Rhizospho of Reduct on Reduct	3) s (B14) Odor (C1) eres on L ed Iron (tion in Til (C7)	iving Ro C4) led Soil:	Surfa Drain Dry-S Crayf pots (C3) Stunt s (C6) X Geor	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
X Surface Wal X High Water X Saturation (<i>I</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits	A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) (isible on Aerial Imager	Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc	auna (B) atic Plants Sulfide C Rhizospho of Reduct on Reduct k Surface	3) s (B14) Odor (C1) eres on L eed Iron (tion in Tii (C7)	iving Ro C4) led Soil:		y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X Surface Wal X High Water X Saturation (<i>I</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V	A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) /isible on Aerial Imager	Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc y (B7) Gauge or ce (B8) Other (Ex	auna (B) atic Plants Sulfide C Rhizosphi of Reduct on Reduct k Surface Well Data	3) s (B14) Odor (C1) eres on L eed Iron (tion in Tii (C7) a (D9) emarks)	iving Ro C4) led Soil:	s (C6)	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Geason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X Surface Wal X High Water X Saturation (# Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V Sparsely Veg	A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) <i>(</i> isible on Aerial Imager getated Concave Surfa	Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc y (B7) Gauge or ce (B8) Other (Ex	auna (B) atic Plants Sulfide C Rhizosphe of Reduc on Reduc k Surface Well Data splain in R	3) s (B14) Odor (C1) eres on L ed Iron (tion in Til (C7) a (D9) emarks)	iving Ro C4) led Soil:	Surfa Drain Dry-S Crayf Dots (C3) Satur Stunt s (C6) X Geor X FAC-	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Beason Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X Surface Wal X High Water X Saturation (/ Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V Sparsely Veg Field Observation	A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) /isible on Aerial Imager getated Concave Surfa ons:	y (B7)	auna (B) atic Plants Sulfide C Rhizosphi of Reduc on Reduc k Surface Well Data cplain in R	3) s (B14) Odor (C1) eres on L eed Iron (tion in Ti (C7) a (D9) emarks)	iving Ro C4) led Soil:	Surfa Drain Dry-S Crayf oots (C3) Satur Sturf s (C6) X Geor X FAC-	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X Surface Wal X High Water X Saturation (# Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V Sparsely Ver Field Observatil Surface Water P Water Table Pro	A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) /isible on Aerial Imager getated Concave Surfa ions: 'resent? Yes X	Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc y (B7)Gauge or ce (B8)Other (Ex	auna (B) atic Plants Sulfide C Rhizosphi of Reduct on Reduct k Surface Well Data cplain in R Depth (ir	3) s (B14) Odor (C1) eres on L eed Iron (tion in Ti (C7) a (D9) emarks) nches):	iving Ro C4) led Soil:	Surfa Drain Dry-S Crayf Dots (C3) Satur Sturf s (C6) X Geor X FAC-	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X Surface Wal X High Water ¹ X Saturation (<i>I</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V Sparsely Veg Field Observati Surface Water P Water Table Pre Saturation Brees	A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) /isible on Aerial Imager getated Concave Surfa ions: Present? Yes X isent? Yes X	Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc y (B7) Gauge or ce (B8) Other (Ex	autia (B) atic Plants Sulfide C Rhizosphi of Reduc on Reduc k Surface Well Dats cplain in R Depth (ir Depth (ir	3) s (B14) Odor (C1) eres on L eed Iron (tion in Tii (C7) a (D9) emarks) moches): noches):	iving Ro C4) led Soil: 0.5 0.5	Surfa Drain Dry-S Crayf Sots (C3) Satur S (C6) X Geor X FAC-	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X Surface Wat X High Water X Saturation (# Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V Sparsely Veg Field Observati Surface Water P Water Table Pre Saturation Prese (includes capillar)	A3) s (B1) eposits (B2) ts (B3) Crust (B4) (s (B5) /isible on Aerial Imager getated Concave Surfa ions: Present? Yes X isent? Yes X int? Yes X pr fringe)	Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc y (B7) Gauge or ce (B8) Other (Ex No No No No	auna (B) atic Plants Sulfide C Rhizosphe of Reduc on Reduc k Surface Well Dats cplain in R Depth (ir Depth (ir	3) s (B14) Odor (C1) eres on L ered Iron (tion in Ti (C7) a (D9) emarks) moches): nches):	iving Ro C4) led Soil: 0.5 0.5 0	Surfa Drain Dry-S Crayf Sturf S (C6) X Geor X FAC-	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X Surface Wat X High Water X Saturation (/ Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Veg Field Observati Surface Water P Water Table Pre Saturation Prese (includes capillar Describe Record	A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) /isible on Aerial Imager getated Concave Surfa ions: Present? Yes X sent? Yes X ent? Yes X py fringe) jed Data (stream gauge	Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc y (B7)Gauge or ce (B8)Other (Ex No No No No No	auna (B) atic Plants o Sulfide C Rhizosphe o f Reduc on Reduc k Surface Well Data cplain in R Depth (ir Depth (ir Depth (ir al photos	3) s (B14) Odor (C1) eres on L ed Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _	iving Ro C4) led Soil: 0.5 0.5 0	Surfa Drain Dry-S Crayf Crayf Stund S	<u>y Indicators (minimum of two required</u> ce Soil Cracks (B6) age Patterns (B10) Beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X Surface Wat X High Water X Saturation (/ Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ver Field Observati Surface Water P Water Table Pre Saturation Prese (includes capillar Describe Record	A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) /isible on Aerial Imager getated Concave Surfa ions: Present? Yes X sent? Yes X ant? Yes X ry fringe) ted Data (stream gauge	Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc y (B7) Gauge or ce (B8) Other (Ex No No No No No No	auna (B) atic Plants o Sulfide C Rhizosphe of Reduct on Reduct k Surface Well Dats cplain in R Depth (ir Depth (ir Depth (ir al photos,	3) s (B14) Odor (C1) eres on L eed Iron (tion in Ti (C7) a (D9) emarks) 	iving Ro C4) led Soil: 0.5 0.5 0 ; inspec	Surfa Drain Dry-S Crayf Crayf Stunf S	<u>y Indicators (minimum of two required</u> ce Soil Cracks (B6) age Patterns (B10) iseason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Clover \	/alley Road 515-Acre Site	City/Cou	nty: New Albany/		Sampling Date:	03/3/2022	
Applicant/Owner:	The New Albany Company			State:	ОН	Sampling Point:	WT-1
Investigator(s): Eric Nagy, EMH&T Se			Township, Range:	T. 2 N; F	R. 15 W		
Landform (hillside, te	errace, etc.): depression		Local relief (concav	ve, conve	x, none):	concave	
Slope (%): 3	Lat: 40.102563°	Long: -	82.710200°			Datum:	
Soil Map Unit Name:	Bennington (BeB)			N	WI classi	fication: None	
Are climatic / hydrolo	gic conditions on the site typical for the	his time of year?	Yes X No		(If no, exp	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysign	nificantly disturbed?	Are "Normal Circum	istances"	present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrology natu	urally problematic? ((If needed, explain a	any answ	ers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach site map	showing samplir	ng point locatio	ons, tra	insects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes X	No
Development and the state of th					

Remarks:

Tree Stratum (Plot size:) % Cover Species? Status Dominance Test worksheet: 1. Acer saccharinum 70 Yes FACW Number of Dominant Species That 2.			Absolute	Dominant	Indicator					
1. Acer saccharinum 70 Yes FACW Number of Dominant Species That 2	Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test	t workshe	eet:		
2.	1. Acer saccharinum		70	Yes	FACW	Number of Domi	nant Spec	cies That		
3.	2.					Are OBL, FACW	, or FAC:		4	(A)
4.	3.					Total Number of	Dominant	t Snecies		-
5.	4.					Across All Strata		(opcoics	4	(B)
70 =Total Cover Are OBL, FACW, or FAC: 100.0% (A/B) Sapling/Shrub Stratum (Plot size:) 10 Yes FACW 1. Cornus sericee 10 Yes FACW 2	5.					Percent of Domin	nant Spec	ies That		-
Saping/Shub Stratum (Plot size:) 1. Cornus sericea 10 Yes FACW 2			70	=Total Cover		Are OBL, FACW	, or FAC:		100.0%	(A/B)
1. Cornus sericea 10 Yes FACW Prevalence Index worksheet: 2.	Sapling/Shrub Stratum (Plot size:)					-		-` ´
2.	1. Cornus sericea		10	Yes	FACW	Prevalence Inde	x worksł	neet:		
3.	2.					Total % Cover of: Multiply b			Itiply by:	
4.	3.					OBL species	30	x1=	30	-
5.	4.					FACW species	140	 x2=	280	-
10 =Total Cover FACU species 0 x 4 = 0 Herb Stratum (Plot size:) 60 Yes FACW Column Totals: 170 (A) 310 (B) 2. Toxicodendron radicans 20 Yes OBL Output species 0 x 5 = 0 3. Leersia oryzoides 10 No OBL Prevalence Index = B/A = 1.82 4.	5.					FAC species	0	- x3=	0	-
Herb Stratum (Plot size:) 1. Ajuga reptans 60 Yes FACW 2. Toxicodendron radicans 20 Yes OBL 3. Leersia oryzoides 10 No OBL 4.			10	=Total Cover		FACU species	0	- x4=	0	-
1. Ajuga reptans 60 Yes FACW OBL Olumn Totals: 170 (A) 310 (B) 2. Toxicodendron radicans 20 Yes OBL OBL Prevalence Index = B/A = 1.82 3. Leersia oryzoides 10 No OBL OBL Hydrophytic Vegetation Indicators: 5.	Herb Stratum (Plot size:	ì				UPL species	0	- x5=	0	-
1 10 10 10 10 00	1 Ajuga rentans	′	60	Yes	FACW	Column Totals	170	- ^ · · · · · · · · · · · · · · · · · ·	310	- (B)
2. Test OBL The set of	2 Tovicodendron radicans		20	Ves		Prevalence In	$\frac{110}{\text{dev}} = R/l$	_~~ . ^ =	1.82	_(")
3. Letersite of yzoides 10 <td< td=""><td>3 Leersia onzoides</td><td></td><td>10</td><td>No</td><td></td><td></td><td></td><td>`</td><td>1.02</td><td>-</td></td<>	3 Leersia onzoides		10	No				`	1.02	-
4.						Hudrophytic Vo		dicator		
5.	4							nuicatora); (a cotation	
6.	5						SLIDI Hyu		egetation	
7.	o			·			Ce restis	>50%		
8. 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 9.	<i>1.</i>			·			ce index is	S ≤3.0°	·	
9.	8.					4 - Morpholo	gical Ada	ptations (Provide sup	porung
10.	9						marks or	on a sepa	Inate sneet)	'
90 =Total Cover ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1.	10					Problematic	Hydrophy	rtic Vegeta	ition' (Expla	ain)
Woody Vine Stratum (Plot size:) be present, unless disturbed or problematic. 1.			90	=Total Cover		¹ Indicators of hyd	tric soil ar	nd wetland	i hydrology	must
1.	Woody Vine Stratum (Plot size:)			be present, unles	s disturbe	ed or prob	lematic.	
2.	1					Hydrophytic				
=Total Cover Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)	2					Vegetation				
Remarks: (Include photo numbers here or on a separate sheet.)				=Total Cover		Present?	Yes X	_ No		
	Remarks: (Include photo numbers here or	on a sepa	irate sheet.)			I				

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/1	90	10YR 7/6	10	C	м	Loamv/Clavev	Prominent redox concentrations
	oncentration D=Den	letion RM	 =Reduced Matrix_N	 /S=Mae	ked San	d Graine	² Locat	
Hydric Soil	Indicators:			10-1103			Indica	tors for Problematic Hydric Soils ³
Histosol	(A1)		Sandy Gle	ved Mat	rix (S4)		C	ast Prairie Redox (A16)
Histic Fr	pipedon (A2)		Sandy Re	dox (S5)				n-Manganese Masses (F12)
Black Hi	stic (A3)		Stripped M	latrix (Se	5)			ed Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)	-,			ary Shallow Dark Surface (F22)
Stratified	Lavers (A5)			cky Mine	eral (F1)			her (Explain in Remarks)
2 cm Mu	ick (A10)		Loamy Gl	eved Mat	rix (F2)			
Depleter	l Below Dark Surface	(Δ11) م	X Depleted I	Aatrix (F	3)			
Thick Da	ark Surface (A12)	,,,,,,,	Bedox Dat	k Surfac	с, се (F6)		³ Indica	tors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted [)ark Sur	face (F7)		w	atland hydrology must be present
0 and y m	icky Peat or Peat (S3	8)	Bedox Der	pression	s (F8)	,	ur	less disturbed or problematic
	aver (if observed):	<u>, </u>			- (/			
Vestinger	Layer (II Observeu).							
Type:	 Ν/Δ							
Type:	N/A						Hydric Soil Pres	ent? Yes X No
Type: Depth (ir Remarks: This data for Errata. (http:	N/A nches): m is revised from Mi //www.nrcs.usda.gov	dwest Reg	jional Supplement \	/ersion 2 /nrcs142	2.0 to inc 2p2 0512	lude the 293.doc)	Hydric Soil Pres	ent? Yes X No
Type: _ Depth (ir Remarks: This data for Errata. (http:	N/A nches): m is revised from Mi //www.nrcs.usda.gov	dwest Rec //Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.doc)	Hydric Soil Pres	ent? Yes X No
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLO	N/A nches): m is revised from Mi //www.nrcs.usda.gov	dwest Reç //Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.doc)	Hydric Soil Pres	ent? Yes X No tors of Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyp	N/A nches): m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators:	dwest Reç //Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.doc	Hydric Soil Pres	ent? Yes X No tors of Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India	N/A nches): m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of compared on the second of	dwest Reg //Internet/F	jional Supplement \ SE_DOCUMENTS ired; check all that :	/ersion 2 /nrcs142 apply)	2.0 to inc 2p2_0512	lude the	Hydric Soil Pres	ent? Yes X No tors of Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface	N/A nches): m is revised from Mi //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of c Water (A1) tag Table (A2)	dwest Reg //Internet/F	jional Supplement \ FSE_DOCUMENTS	/ersion 2 /nrcs142 apply) ined Lea	2.0 to inc 2p2_0512	lude the 293.doc	Hydric Soil Pres NRCS Field Indica	ent? Yes X No tors of Hydric Soils, Version 7.0, 2015 dary Indicators (minimum of two require urface Soil Cracks (B6)
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Type: Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India X Surface X High Wa X Saturatic Water M	N/A mches): m is revised from Mi //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of c Water (A1) ther Table (A2) on (A3) larks (B1)	dwest Reç //Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that i X Water-Sta Aquatic Fa True Aqua	/ersion 2 /nrcs142 apply) ined Lea nuna (B1 tic Plant Sulfide (2.0 to inc 2p2_0512 wes (B9) 3) s (B14)	lude the 293.docx	Hydric Soil Pres	ent? Yes X No tors of Hydric Soils, Version 7.0, 2015 dary Indicators (minimum of two require urface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) avdich Burrows (C8)
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Project/Site: Clover \	Valley Road 515-Acre Site	City/County: New Albany/	Licking	Sampling Date:	03/2/2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	WU-4
Investigator(s): Eric N	Nagy, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	errace, etc.): depression	Local relief (conca	ve, convex, none):	concave	
Slope (%): 3	Lat: 40.104579°	Long: <u>-82.708713°</u>		Datum:	
Soil Map Unit Name:	Bennington (BeB)		NWI classi	fication: PEM1C	
Are climatic / hydrolo	gic conditions on the site typical for this time of yea	ar? Yes <u>X</u> No	o (If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circur	nstances" present?	Yes <u>X</u> No	·
Are Vegetation	, Soil, or Hydrology naturally problem	atic? (If needed, explain	any answers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach site map showing s	ampling point locati	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampled Area within a Wetland?	Yes X	No
Deveeter					

Remarks:

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer saccharinum	80	Yes	FAC	Number of Dominant Species That
2. Salix nigra	20	Yes	OBL	Are OBL, FACW, or FAC: 5 (A)
3				Total Number of Dominant Species
4				Across All Strata: 6 (B)
5				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 83.3% (A/B)
Sapling/Shrub Stratum (Plot size:)		•		
1. Cornus sericea	5	Yes	FACW	Prevalence Index worksheet:
2. Rosa multiflora	5	Yes	FACU	Total % Cover of: Multiply by:
3.				OBL species 50 x 1 = 50
4.				FACW species 5 x 2 = 10
5.				FAC species 95 x 3 = 285
	10	=Total Cover		FACU species 20 x 4 = 80
Herb Stratum (Plot size:)		•		UPL species 0 x 5 = 0
1. Juncus effusus	30	Yes	OBL	Column Totals: 170 (A) 425 (B)
2. Toxicodendron radicans	15	Yes	FAC	Prevalence Index = B/A = 2.50
3. Dactylis glomerata	10	No	FACU	
4. Solidago spp.	5	No	FACU	Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is >50%
7.				\overline{X} 3 - Prevalence Index is $\leq 3.0^1$
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	60	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)				be present, unless disturbed or problematic.
1. , <u> </u>				
2.				Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sheet.)	·	I	

	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 4/1	90	10YR 4/6	10	<u> </u>	м	l oamv/Clavev	Prominent redox concentrations
3-10	10YR 5/1	65	10YR 7/6	35	<u> </u>	 M	Loamy/Clavey	Prominent redox concentrations
			101 K 7/6		<u> </u>		Loamy/Clayey	
					_			
¹ Type: C=Co		etion RM		 MS=Mas	 ked Sand		² l ocatio	n: PI=Pore Lining M=Matrix
Hydric Soil I	ndicators:						Indicato	rs for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Gle	wed Mat	rix (S4)		Coa	st Prairie Redox (A16)
Histic Epi	ipedon (A2)		Sandy Re	dox (S5)				-Manganese Masses (F12)
Rlack His	tic $(\Delta 3)$		Stripped N	Aatrix (Sf	3)		Red	Parent Material (E21)
Hydrogen	Sulfide (ΔA)		Ourpped to	aco (97)	<i>''</i>			(Shallow Dark Surface (E22)
Stratified				icky Mine	aral (E1)			r (Explain in Remarks)
				nory wind	riv (⊏?)		0	
2 cm iviuc	K (AIU) Balaw Dark Surface	/	Loamy Gr		.⊓x (⊏∠) ว\			
Depieted	Below Dark Surface	(ATT)		viairix (F	3) 10 (EB)		³ Indicate	an of hydrophytic vegetation and
	rk Sunace (A12)				е (го) ((гт)		muicate	
Sandy Mit	ucky Mineral (S1)	、	Depleted I	Jark Sur	race (F7)		weti	and hydrology must be present,
	xy Peat of Peat (53)		pression	s (F8)		unie	ss disturbed or problematic.
Restrictive L	ayer (if observed):							
Туре:	N/A							
Type: Depth (ind Remarks: This data form Errata. (http://	N/A ches): n is revised from Mid /www.nrcs.usda.gov	dwest Reg /Internet/I	gional Supplement	Version 2 S/nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soll Preser	Yes X No rs of Hydric Soils, Version 7.0, 2015
Type: Depth (ind Remarks: This data forn Errata. (http://	N/A ches):	dwest Reg /Internet/I	gional Supplement	Version 2 3/nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soll Preser NRCS Field Indicato	nt? Yes X No
Type: Depth (ind Remarks: This data form Errata. (http://	N/A ches): n is revised from Mid /www.nrcs.usda.gov	dwest Reg /Internet/I	gional Supplement	Version 2 3/nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Preser NRCS Field Indicato	nt? Yes X No
Type: Depth (ind Remarks: This data form Errata. (http:// HYDROLO	N/A ches): n is revised from Mid /www.nrcs.usda.gov GY Irology Indicators:	dwest Reg /Internet/i	gional Supplement	Version 2 5/nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soll Preser	nt? Yes X No rs of Hydric Soils, Version 7.0, 2015
Type: Depth (ind Remarks: This data form Errata. (http:// HYDROLOG Wetland Hyd Primary Indic:	N/A ches): n is revised from Mid /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o	dwest Reg /Internet/I ne is requ	gional Supplement SE_DOCUMENTS	Version 2 S/nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soll Preser	nt? Yes X No rs of Hydric Soils, Version 7.0, 2015
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Type: Depth (ind Remarks: This data form Errata. (http:// HYDROLOG Wetland Hyd Primary Indica X Surface V X High Wat	N/A ches): n is revised from Mid /www.nrcs.usda.gov GY GY Irology Indicators: ators (minimum of o Vater (A1) er Table (A2)	dwest Reg /Internet/I ne is requ	gional Supplement SE_DOCUMENTS <u>uired; check all that</u> <u>X</u> Water-Sta Aquatic Fa	Version 2 3/nrcs142 apply) ined Lea auna (B1	2.0 to inc p2_0512 ves (B9) 3)	lude the 293.docx	Hydric Soil Preser NRCS Field Indicato) Seconda	t? Yes X No rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two required face Soil Cracks (B6) nage Patterns (B10)
Type: Depth (ind Remarks: This data form Errata. (http:// HYDROLOG Wetland Hyd Primary Indica X Surface V X High Wat X Saturation	N/A ches): n is revised from Mid /www.nrcs.usda.gov GY Irology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3)	dwest Reg /Internet/I ne is requ	gional Supplement * =SE_DOCUMENTS uired; check all that Aquatic Fa Aquatic Fa True Aqua	Version 2 s/nrcs142 apply) ined Lea auna (B1 atic Plant	2.0 to inc p2_0512 ves (B9) 3) s (B14)	lude the 293.docx	Hydric Soil Preser	t? Yes X No rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two required face Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
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Project/Site: Clover Valley Road 515-Acre Site				City/Co	unty: New Albar	ny/ Licking		Sampling Date:	04/22/2022
Applicant/Owner:	The New Alba	any Compa	any			State:	ОН	Sampling Point:	WV-1
Investigator(s): Brya	n Lombard, EN	IH&T		Section,	Township, Rang	je: <u>T. 2 N;</u>	R. 15 W		
Landform (hillside, t	errace, etc.): d	epression			Local relief (cor	ncave, conv	ex, none):	concave	
Slope (%): 5	Lat: 40.1024	75°		Long:	-82.713610°			_Datum:	
Soil Map Unit Name	: Pewamo (Pe)	ļ				<u> </u>	WI class	ification: PFO1C	
Are climatic / hydrol	ogic conditions	on the site	typical for this time	of year?	Yes X	No	(If no, ex	plain in Remarks.)	
Are Vegetation	_, Soil,	or Hydrolo	gysignificantl	y disturbed?	Are "Normal Circ	cumstances	" present	? Yes <u>X</u> No	o
Are Vegetation	_, Soil,	or Hydrolo	gy naturally pr	oblematic?	(If needed, expla	ain any ansv	vers in Re	əmarks.)	
SUMMARY OF	FINDINGS -	- Attach	site map show	ing sampli	ing point loca	ations, tr	ansects	s, important fea	tures, etc.
Hydrophytic Vegeta	ation Present?	Yes X	No	ls th	e Sampled Area	9			
Hydric Soil Present	(?	Yes X	No	with	in a Wetland?	۱ ا	/es X	No	

Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X	No No	within a Wetland?	Yes_X_	No
Remarks:					

	Absolute	Dominant	Indicator		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:	
1. Fraxinus pennsylvanica	80	Yes	FACW	Number of Dominant Species That	
2. Ulmus americana	20	Yes	FACW	Are OBL, FACW, or FAC:	<u>3</u> (A)
3				Total Number of Dominant Species	
4.				Across All Strata:	<u>3</u> (B)
5.				Percent of Dominant Species That	
	100	=Total Cover		Are OBL, FACW, or FAC:	100.0% (A/B)
Sapling/Shrub Stratum (Plot size:)					
1. Cornus sericea	10	Yes	FACW	Prevalence Index worksheet:	
2.				Total % Cover of: Multip	oly by:
3.				OBL species 0 x 1 =	0
4.				FACW species 110 x 2 =	220
5.				FAC species 0 x 3 =	0
	10	=Total Cover		FACU species 0 x 4 =	0
Herb Stratum (Plot size:)				UPL species 0 x 5 =	0
1.				Column Totals: 110 (A)	220 (B)
2.				Prevalence Index = B/A = 2.1	00
3.					
4.				Hydrophytic Vegetation Indicators:	
5.				1 - Rapid Test for Hydrophytic Veg	etation
6.				X 2 - Dominance Test is >50%	
7.				X 3 - Prevalence Index is $\leq 3.0^{1}$	
8.				4 - Morphological Adaptations ¹ (Pro	ovide supporting
9.				data in Remarks or on a separat	te sheet)
10.				Problematic Hydrophytic Vegetatio	on ¹ (Explain)
		=Total Cover		¹ Indicators of hydric soil and wetland hy	vdrology must
Woody Vine Stratum (Plot size:)				be present, unless disturbed or problem	natic.
1.				Hydrophytic	
2.				Vegetation	
		=Total Cover		Present? Yes X No	
Remarks: (Include photo numbers here or on a separ	ate sheet.)				

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 4/1	90	10YR 4/6	10	С	м	Loamy/Clayey	Prominent redox concentrations
3-10	10YR 5/1	65	10YR 7/6	35	С	М	Loamy/Clayey	Prominent redox concentrations
Type: C=Co Iydric Soil Histosol Histic Ep Black His Hydroge Stratified 2 cm Mu Depletec Thick Da Sandy M 5 cm Mu Restrictive I	oncentration, D=D Indicators: (A1) bipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) lick (A10) d Below Dark Surfa ark Surface (A12) lucky Mineral (S1) licky Peat or Peat (»pletion, RM	I=Reduced Matrix, I Sandy Gle Sandy Red Stripped M Dark Surfa Loamy Mu Loamy Gle X Depleted I Redox Da Depleted I Redox De	MS=Masi Avged Matin dox (S5) Natrix (S6 ace (S7) ace (S7) ace (S7) ace (S7) ace (S7) ace (S1) ace (S1)	ked San rix (S4) 5) rix (F2) 3) se (F6) face (F7 s (F8)	 d Grains.	2Location Indicator Coas Iron- Red Very Othe ³ Indicator wetla unles	: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils³: It Prairie Redox (A16) Manganese Masses (F12) Parent Material (F21) Shallow Dark Surface (F22) r (Explain in Remarks) rs of hydrophytic vegetation and and hydrology must be present, as disturbed or problematic.
Type: Depth (ir Remarks:	N//	I): 					Hydric Soil Present	? Yes <u>X</u> No
Type: Depth (ir Remarks: This data for Errata. (http:	m is revised from //www.nrcs.usda.g	I): Midwest Reg ov/Internet/f	gional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the l 293.docx)	Hydric Soil Present	Yes X No s of Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http:	m is revised from //www.nrcs.usda.g	I): Midwest Reg ov/Internet/F	gional Supplement \ FSE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_051:	lude the l 293.docx)	Hydric Soil Present	t? Yes X No sof Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http: IYDROLO	m is revised from //www.nrcs.usda.g	I): Midwest Reg ov/Internet/F	gional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the l 293.docx)	Hydric Soil Present	Yes X No sof Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http: IYDROLO Wetland Hyo Primary Indig	m is revised from //www.nrcs.usda.g	I): Vidwest Re ov/Internet/I 	gional Supplement \ =SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc p2_051:	lude the l 293.docx)	Hydric Soil Present	Yes X No sof Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http: IYDROLO Wetland Hyp Primary India X Surface	m is revised from //www.nrcs.usda.g	I): Midwest Reg ov/Internet/I	gional Supplement V -SE_DOCUMENTS uired; check all that X Water-Sta	/ersion 2 /nrcs142 apply) ined Lea	2.0 to inc 2p2_051:	lude the l 293.docx)	Hydric Soll Present	Yes X No sof Hydric Soils, Version 7.0, 2015
Type: Depth (ir Remarks: This data for Errata. (http: YDROLO Wetland Hyp Primary India X Surface V X High Wa	M// mches): m is revised from //www.nrcs.usda.g DGY drology Indicator cators (minimum o Water (A1) tter Table (A2)	I): Midwest Reg ov/Internet/I	gional Supplement V -SE_DOCUMENTS uired; check all that _X_Water-Sta Aquatic Fa	/ersion 2 /nrcs142 apply) ined Lea auna (B1	2.0 to inc 2p2_0512	lude the l 293.docx)	Hydric Soil Present	Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requires the soil Cracks (B6) hage Patterns (B10)
Type: Depth (ir Remarks: This data for Errata. (http: IYDROLO Wetland Hyd Primary India X Surface X High Wa X Saturatic	Ange of the served of the served of the served from the served	I): Midwest Reg ov/Internet/I	gional Supplement \ =SE_DOCUMENTS <u>uired; check all that</u> _X_Water-Sta Aquatic Fa Aquatic Fa Aquatic Fa	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant	2.0 to inc p2_051: 	lude the l 293.docx)	Hydric Soil Present NRCS Field Indicator Secondal Surfa Drair Drv-5	Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requir nce Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Type: Depth (ir Remarks: This data for Errata. (http: YDROLO Wetland Hyo Primary India X Surface V X High Wa X Saturatio X Water M	DGY drology Indicator cators (minimum o Water (A1) tter Table (A2) on (A3) farks (B1)	I): Viidwest Reg ov/Internet/I	gional Supplement V -SE_DOCUMENTS <u>uired; check all that</u> X Water-Sta Aquatic Fa True Aqua Hvdrogen	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant: Sulfide (2.0 to inc 2p2_051: ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicator	Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requires a soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Type: Depth (ir Remarks: This data for Frrata. (http: Trrata. (htt	Million Construction Const	I): Vidwest Ree ov/Internet/I	gional Supplement \ =SE_DOCUMENTS <u>uired; check all that</u> <u>X</u> Water-Sta <u>A</u> quatic Fa <u>C</u> True Aqua <u>Hydrogen</u> Oxidized F	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant: Sulfide (Rhizosph	2.0 to inc 2p2_051: ves (B9) 3) s (B14) Ddor (C1 eres on	lude the l 293.docx)	Hydric Soil Present NRCS Field Indicator Seconda	Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requir nce Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Type: Depth (ir Remarks: This data for Frrata. (http: Primary India X Surface X High Wa X Saturatic X Water M Sedimen Drift Dep	M// mches): m is revised from //www.nrcs.usda.g DGY drology Indicator cators (minimum o Water (A1) ther Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	I): Midwest Re ov/Internet/I	gional Supplement \ =SE_DOCUMENTS <u>uired; check all that</u> X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	2.0 to inc 2p2_051: ves (B9) 3) s (B14) Ddor (C1 eres on ced Iron	lude the l 293.docx)	Hydric Soil Present NRCS Field Indicator Seconda	Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two required in the soil Cracks (B6) in the soil Cracks (B6) in the soil Cracks (B10) Season Water Table (C2) fish Burrows (C8) in the source of the sour
Type: Depth (ir Remarks: This data for Frrata. (http: This data for Trrata. (http: Trrata. (http	M// mches): m is revised from //www.nrcs.usda.g GGY drology Indicator cators (minimum o Water (A1) mter Table (A2) on (A3) larks (B1) mt Deposits (B2) posits (B3) at or Crust (B4)	I): Midwest Reg ov/Internet/I	gional Supplement V =SE_DOCUMENTS <u>uired; check all that</u> X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Irc	/ersion 2 /nrcs142 ined Lea auna (B1 tic Plant: Sulfide (Rhizosph of Reduc n Reduc	2.0 to inc 2p2_051: ves (B9) 3) s (B14) Odor (C1 eres on xed Iron tion in T) Living Ro (C4) illed Soils	Hydric Soil Present NRCS Field Indicator Seconda	Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requirence Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2)
Type: Depth (ir Remarks: This data for Errata. (http: Primary India X Surface X High Wa X Saturatic X Water M Sedimen Drift Dep Algal Ma Iron Dep	Ange of the served of the served of the served from the served	I): Midwest Reg ov/Internet/I	gional Supplement V SE_DOCUMENTS <u>vired; check all that</u> <u>X</u> Water-Sta <u>A</u> quatic Fa <u>True Aquatic Fa</u> <u>Urue Aquatic Fa</u> <u>Coxidized Fa <u>Coxidized Fa <u>Coxidized Fa </u></u></u>	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant: Sulfide C Sulfide C Sulfide C Sulfide C Sulfide C Sulfide C	2.0 to inc 2p2_051: ves (B9) 3) s (B14) Odor (C1 eres on ced Iron tion in T (C7)) Living Ro (C4) illed Soils	Hydric Soil Present NRCS Field Indicator NRCS Field Indicator Seconda	Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requires the soil Cracks (B6) rage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2) No
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Type: Depth (ir Remarks: This data for Frrata. (http: Primary India X Surface X High Wa X Saturatic X High Wa X Saturatic X High Wa Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Vater Table Saturation P	And the set of the set	I): Midwest Ree ov/Internet/I s: f one is requ / es _X / es _X / es _X / es _X	gional Supplement V =SE_DOCUMENTS <u>uired; check all that</u> X Water-Sta Aquatic Fa True Aquat Hydrogen Oxidized F Presence Recent Irc Thin Muck 57) Gauge or (B8) Other (Exp No No No No	/ersion 2 /nrcs142 /nrcs142 /nrcs142 //nrcs14 //nrcs14	2.0 to inc 2.0 to inc 2.0 to inc 2.0 to inc 2.0 to inc 2.0 to inc 3) s (B14) Ddor (C1 eres on 2.0 to inc 1.0 to inc) Living Ro (C4) illed Soils	Hydric Soil Present NRCS Field Indicator NRCS Field Indicator Seconda	Yes X No s of Hydric Soils, Version 7.0, 2015 s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requires the soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
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Type: Depth (ir Remarks: This data for Errata. (http: IYDROLO Wetland Hyp Primary India X Surface V X High Wa X Saturatic X High Wa X Saturatic X High Wa X Saturatic X High Wa Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Vater Table Saturation P (includes cap Describe Ref	A vegetated Conca vegetated Conca	I): Midwest Rei ov/Internet/I s: f one is required ve Surface (/es X /es X /es X /es X /es X	gional Supplement V =SE_DOCUMENTS <u>aired; check all that</u> X Water-Sta Aquatic Fa True Aquat Hydrogen Oxidized F Presence Recent Irc Thin Muck (7) Gauge or (B8) Other (Exp No No No No No No No No No No	/ersion 2 /nrcs142 /nrcs142 /nrcs142 //nrcs14 /	2.0 to inc 2.0 to inc 2.0 to inc 2.0 to inc 2.0 to inc 3) s (B14) Ddor (C1 eres on ced Iron tion in T (C7) a (D9) temarks): nches): nches): , previou) Living Ro (C4) illed Soils) 4 4 0 s inspect	Hydric Soil Present NRCS Field Indicator NRCS Field Indicator Suffa	Yes X No s of Hydric Soils, Version 7.0, 2015 s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requires the soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Clover \	/alley Road 515-Acre Site	City/County: New Albany/	Licking	Sampling Date:	05/20/2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	WZ-1
Investigator(s): Bryan	Lombard, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	rrace, etc.): depression/farm field/fence row	Local relief (conca	ve, convex, none):	concave	
Slope (%): 3	Lat: 40.097152°	Long: -82.729675°		Datum:	
Soil Map Unit Name:	Pewamo (Pe)		NWI classi	fication: None	
Are climatic / hydrolo	gic conditions on the site typical for this time of ye	ar? Yes <u>X</u> No) (If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circun	nstances" present?	Yes <u>X</u> No	,
Are Vegetation	, Soil, or Hydrologynaturally problem	atic? (If needed, explain	any answers in Re	marks.)	
SUMMARY OF F	FINDINGS – Attach site map showing s	ampling point locati	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	x x x	No No No	Is the Sampled Area within a Wetland?	Yes _>	<u>×</u>	No
Remarks:							

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 2 (A)
3				Total Number of Dominant Species
4				Across All Strata: <u>2</u> (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:)				
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 10 x 1 = 10
4.				FACW species 75 x 2 = 150
5.				FAC species 13 x 3 = 39
		=Total Cover		FACU species 2 x 4 = 8
Herb Stratum (Plot size:)		•		UPL species 0 x 5 = 0
1. Carex spp.	40	Yes	FACW	Column Totals: 100 (A) 207 (B)
2. Phalaris arundinacea	30	Yes	FACW	Prevalence Index = B/A = 2.07
3. Juncus effusus	10	No	OBL	
4. Agrimonia parviflora	5	No	FACW	Hydrophytic Vegetation Indicators:
5. Rumex crispus	5	No	FAC	1 - Rapid Test for Hydrophytic Vegetation
6. Toxicodendron radicans	5	No	FAC	X 2 - Dominance Test is >50%
7. Setaria pumila	3	No	FAC	X 3 - Prevalence Index is ≤3.0 ¹
8. Rubus idaeus	2	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	100	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)		•		be present, unless disturbed or problematic.
1.				Hydrophytic
2.				Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sheet.)			•

Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 3/1	95	10YR 5/4	5	c	м	Loamy/Clayey	Distinct redox concentrations	
6-12	10YR 3/1	75	10YR 5/4	25	С	м	Loamy/Clayey	Distinct redox concentrations	
		·							
	centration D=Der			 /S=Mas			2	· PI =Pore Lining M=Matrix	
Hydric Soil Ind	dicators:			10-1103			Indicator	s for Problematic Hydric Soils ³	
Histosol (A	1)		Sandy Gle	ved Mat	riv (S4)		Coas	t Prairie Redox (A16)	
Histic Enine	ο) adon (Δ2)		Sandy Be	10x (95)	IIX (04)		Uron-	Manganese Masses (F12)	
Black Histic	ο (Δ3)		Oandy Net	lotriv (Sf	3)		Red	Parent Material (E21)	
Black Flistic (AS)			Outped w	an (97)	<i>''</i>			Shallow Dark Surface (E22)	
Hydrogen Sulfide (A4) Stratified Lavora (A5)				oby Miss	aral (E1)			r (Evolain in Demorka)	
	ayers (AD)								
2 cm Muck (A10)				yeu Mai	.iix (F2) ov				
Depleted Below Dark Surface (A11)				viatrix (F	3)		3		
Thick Dark Surface (A12)			X Redox Da	K Surfac	æ(⊢6)		~Indicator	s or nydrophytic vegetation and	
Sandy Muc	ку Mineral (S1)			Jark Sur	race (F7))	wetla	ina nyarology must be present,	
5 cm Mucky Peat or Peat (S3)				pression	s (⊦8)		unless disturbed or problematic.		
vestrictive Lay	yer (if observed):								
Type:									
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Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 3/1	95	10YR 5/4	5	c	м	Loamy/Clayey	Distinct redox concentrations	
6-12	10YR 3/1	75	10YR 5/4	25	С	м	Loamy/Clayey	Distinct redox concentrations	
		·							
	centration D=Der			 /S=Mas			2	· PI =Pore Lining M=Matrix	
Hydric Soil Ind	dicators:			10-1103			Indicator	s for Problematic Hydric Soils ³	
Histosol (A	1)		Sandy Gle	ved Mat	riv (S4)		Coas	t Prairie Redox (A16)	
Histic Enine	ο) adon (Δ2)		Sandy Be	10x (95)	IIX (04)		Uron-	Manganese Masses (F12)	
Black Histic	ο (Δ3)		Oandy Net	lotriv (Sf	3)		Red	Parent Material (E21)	
Black Flistic (AS)			Outped w	an (97)	<i>''</i>			Shallow Dark Surface (E22)	
Hydrogen Sulfide (A4) Stratified Lavora (A5)				oby Miss	aral (E1)			r (Evolain in Demorka)	
	ayers (AD)								
2 cm Muck (A10)				yeu Mai	.iix (F2) ov				
Depleted Below Dark Surface (A11)				viatrix (F	3)		3		
Thick Dark Surface (A12)			X Redox Da	K Surfac	æ(⊢6)		~Indicator	s or nydrophytic vegetation and	
Sandy Muc	ку Mineral (S1)			Jark Sur	race (F7))	wetla	ina nyarology must be present,	
5 cm Mucky Peat or Peat (S3)				pression	s (⊦8)		unless disturbed or problematic.		
vestrictive Lay	yer (if observed):								
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Project/Site: Clover	Valley Road 515-Acre Site	City/County: New Albany	/ Licking	Sampling Date:	4-13-2022				
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	U-A-24				
Investigator(s): Eric	Nagy, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W						
Landform (hillside, te	errace, etc.): terrace	Local relief (conc	ave, convex, none):	none					
Slope (%):	Lat: 40.099727°	Long: <u>-82.726188°</u>		Datum:					
Soil Map Unit Name	: Bennington silt loam (BeB)		NWI classi	fication: NA					
Are climatic / hydrole	ogic conditions on the site typical for	this time of year? Yes X N	o (If no, ex	plain in Remarks.)					
Are Vegetation	, Soil, or Hydrologysig	nificantly disturbed? Are "Normal Circu	mstances" present?	Yes <u>X</u> No	,				
Are Vegetation	, Soil, or Hydrologyna	turally problematic? (If needed, explain	any answers in Re	marks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegeta	ation Present? Yes No	X Is the Sampled Area							

Hydrophytic Vegetation Present?	Yes		Is the Sampled Area	Vaa	No. V
rigune Son Fresent?				res	
Wetland Hydrology Present?	Yes	No <u>X</u>			
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Prunus serotina	50	Yes	FACU	Number of Dominant Species That
2. Carya ovalis	10	No	FACU	Are OBL, FACW, or FAC: 1 (A)
3. Acer saccharum	20	Yes	FACU	Total Number of Dominant Species
4. Acer saccharinum	20	Yes	FACW	Across All Strata:4(B)
5				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size: 15')				
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 20 x 2 = 40
5.		·		FAC species $0 \times 3 = 0$
		=Total Cover		FACU species 84 x 4 = 336
Herb Stratum (Plot size: 5')				UPL species 90 x 5 = 450
1. Erythronium americanum	90	Yes	UPL	Column Totals: 194 (A) 826 (B)
2. Podophyllum peltatum	2	No	FACU	Prevalence Index = B/A = 4.26
3. Geranium maculatum	2	No	FACU	
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 ¹
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	94	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
1.				Urdronhutio
2.				Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Profile Des	cription: (Describe	to the dept	h needed to docu	ument ti	ne indica	itor or d	confirm the absence	of indicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 4/2	100					Loamy/Clayey		
6-12	10YR 6/1	80	10YR 5/6	20	c	м	Loamv/Clavev	Prominent redox conc	entrations
¹ Type: C=C	oncentration, D=Dep	etion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains	a. ² Location	n: PL=Pore Lining, M=Matr	ix.
Hydric Soil	Indicators:						Indicato	rs for Problematic Hydric	Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coa	st Prairie Redox (A16)	
Histic Ep	pipedon (A2)		Sandy Rec	dox (S5)			Iron-	Manganese Masses (F12)	
Black Hi	Black Histic (A3) Stripped Matrix (S6)						Red	Parent Material (F21)	
Hydrogen Sulfide (A4)Dark Surface (S7)							Very	Shallow Dark Surface (F2)	2)
Stratified	d Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	er (Explain in Remarks)	
^{2 cm Mu}	ick (A10)		Loamy Gle	eyed Mat	rix (F2)				
Depleted	d Below Dark Surface	(A11)	X Depleted N	Aatrix (F	3)		3	.	
	Thick Dark Surface (A12)Redox Dark Surface (F6)						*Indicato	rs of hydrophytic vegetation	n and
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)						wetla	and hydrology must be pres	sent,	
	icky Pear of Pear (55)		Jiession	S (FO)		unie	ss disturbed of problematic	
Restrictive	Layer (if observed):								
Type:									
Depth (II	nches):						Hydric Soll Presen	t? Yes <u>X</u>	. ^{NO}
Remarks:									
This data for	rm is revised from Mi	dwest Regio	onal Supplement \	/ersion 2	2.0 to incl	lude the	NRCS Field Indicator	s of Hydric Soils, Version 7	7.0, 2015
Enata. (nup	//www.nics.usua.gov	/internet/FC		/11/CS 142	2pz_0512	93.000	K)		
	JG F								
Wetland Hy	drology Indicators:						a		
Primary Indi	cators (minimum of o	ne is requir	ed; check all that a	apply)			<u>Seconda</u>	ry Indicators (minimum of I	wo required)
Surface	Water (A1)		Water-Star	ined Lea	ves (B9)		Surfa	ace Soll Cracks (B6)	
	ater I able (A2)			iuna (B1 tie Dient	3) = (P14)			hage Patterns (B10)	
	Dii (AS) Iorka (P1)		Hudrogon	liic Plant Sulfido (S (D 14))dor (C1)	`	Diy	fich Burrows (C2)	
Sedimer	nt Denosits (B2)			Suinue (Shizosoh	eres on l	ivina R	oots (C3) Satu	ration Visible on Aerial Ima	nerv (C9)
Drift Der	osits (B3)		Presence	of Reduc	ered Iron (C4)	Stun	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	ls (C6) Geo	morphic Position (D2)	/
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC	-Neutral Test (D5)	
Inundati	on Visible on Aerial Ir	nagery (B7)) Gauge or V	Well Dat	a (D9)				
Sparsely	/ Vegetated Concave	Surface (B	8) Other (Exp	lain in R	emarks)				
Field Obser	vations:								
Surface Wat	ter Present? Ye	5	No X	Depth (i	nches):				
Water Table	Present? Ye	s	No X	Depth (i	nches):				
Saturation P	resent? Ye	s	No X	Depth (i	nches):		Wetland Hydrolo	qy Present? Yes	No X
(includes ca	pillary fringe)			• •	<i>′</i> –				
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previou	s inspec	tions), if available:		
	-					-			
Remarks:									
No hydology	observed.								

Project/Site: Clover	Valley Road 5	15-Acre Site.	City/C	County: New Albany/	Licking	_ Sampling Date:	4-13-2022
Applicant/Owner:	The New Alb	any Company			State: OH	Sampling Point:	U-B-1
Investigator(s): Eric I	Nagy, EMH&T		Section	n, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	errace, etc.): to	errace		Local relief (conca	ve, convex, none)	: none	
Slope (%):	Lat: 40.100	192°	Lonç	g: <u>-82.727672°</u>		_Datum:	
Soil Map Unit Name:	: Pewamo silty	/ clay loam (Pe)			NWI class	sification: NA	
Are climatic / hydrold	ogic conditions	on the site typic	al for this time of year?	Yes <u>X</u> No	o (If no, ex	kplain in Remarks.)	
Are Vegetation	, Soil,	or Hydrology	significantly disturbed?	Are "Normal Circun	nstances" present	? Yes <u>X</u> No	o
Are Vegetation	, Soil,	or Hydrology	naturally problematic?	(If needed, explain	any answers in R	emarks.)	
SUMMARY OF	FINDINGS	- Attach site	map showing samp	ling point location	ons, transect	s, important fea	tures, etc.
Hydrophytic Vegeta	ation Present?	Yes X	No Is	the Sampled Area			
Hydric Soil Present	?	Yes X	No wit	thin a Wetland?	Yes	NoX	
Wetland Hydrology	Present?	Yes	No_X_				

Remarks:

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer saccharinum	70	Yes	FACW	Number of Dominant Species That
2. Carya ovata	15	No	FACU	Are OBL, FACW, or FAC: 2 (A)
3. Juglans nigra	10	No	FACU	Total Number of Dominant Species
4. Ulmus americana	5	No	FACW	Across All Strata: 3 (B)
5.		·		Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 66.7% (A/B)
Sapling/Shrub Stratum (Plot size: 15')		-		
1. Lindera benzoin	10	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 87 x 2 = 174
5				FAC species $0 \times 3 = 0$
· ·	10	=Total Cover		FACU species 50 $\times 4 = 200$
Herb Stratum (Plot size: 5')				$\frac{1}{1} = \frac{1}{1} = \frac{1}$
1 Gerenium maculatum	25	Yes	FACU	$\frac{1}{1} = \frac{1}{1} = \frac{1}$
2 Contemine doudlessii	20	. <u> </u>		$\frac{1}{2} \frac{1}{2} \frac{1}$
3:				Ludrophile Vegetation Indicators
4				A Desid Test for Hydrophytic Vegetation
5				
6				
7				3 - Prevalence Index is ≤3.0
8				4 - Morphological Adaptations (Provide supporting
9				data in Remarks or on a separate sneety
10				Problematic Hydrophytic Vegetation ' (Explain)
	27	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
1		<u> </u>		Hydrophytic
2				Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separa	ate sheet.)		•	

Depth	ription: (Describe Matriv	to the dept	n needed to docl	ument ti v Festur	ne maica es		contirm the abser	nce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	% realui	Type ¹		Texture	Pemarks	
		<u></u>							
	10YR 4/1	90	10YR 4/6	10	<u> </u>	<u> </u>	Loamy/Clayey		
1 _{Tumor} 0-0			Deduced Metrix A				21		
Type. C-Co Hudric Soil	Indicators:		Reduced Matrix, N	no-mas	keu Sant	Grains	. Loca	ation. PL-Pole Lining, M-Matrix.	
Historol	(A1)		Sandy Cla	und Mot	riv (Q4)		indic	Capet Provine Rodey (A16)	
Histoson	(AT) sinedon (A2)		Sandy Bec	yeu iviat lov (95)	IIX (34)			ron-Manganese Masses (E12)	
Black Hi	stic (A3)		Stripped M	lotriv (SP	3)		'	Ped Parent Material (E21)	
Hydroge	$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$		Ourpped M	anik (30	,		—,	(en Shallow Dark Surface (E22)	
Nyuruge				cle (37) cky Min	aral (E1)		—	Ather (Explain in Remarks)	
2 cm Mu	ck (A10)		Loamy Gle	wed Mat	triv (E2)		—`		
2 cm ind	Relow Dark Surface	Δ11)	X Depleted M	/jetriv (E	3)				
Thick Da	rk Surface (A12)	,,,,,,	Bepleted in Redox Dar	k Surfac	с) зе (F6)		³ Indic	cators of hydrophytic vegetation and	
Sandy M	ucky Mineral (S1)		Depleted F)ark Sur	face (F7)		v	vetland hydrology must be present	
5 cm Mu	cky Peat or Peat (S3	n	? Redox Der	pression	s (F8)		wetland hydrology must be presen unless disturbed or problematic		
 Destrictive	aver (if observed):	·/			- (/				
Type.	Layer (il observeu).								
Depth (ir	ches).						Hydric Soil Bre	sent? Ves X No	
			_						
Remarks:		durant Dani		((0.4- :			stern of United Colle Manier 7.0, 0045	
Frrata (http:	m is revised from ivil	dwest Regio		ersion 2	2.0 10 INC	lude the	NRCS Field Indic	ators of Hydric Solis, version 7.0, 2015	
	//www.mcs.usua.gov			/11/03/142	2p2_0012	-30.000	^)		
	GY								
Wetland Uv	drelem Indiastera								
Primary India	arology indicators:	no ie roquir	ed: check all that a	annivi			Seco	odany Indicators (minimum of two required)	
<u>Finitary mulo</u>	Vators (Millimum of C	ile is requir	Water-Stai	nod Loa	wee (RQ)		<u> </u>	Surface Soil Cracks (B6)	
High Wa	ter Table (A2)			una (R1	3) 3)		— °	Trainage Patterns (B10)	
Saturatio	(A3)			tic Plant	⊂) s (R14)		—)ry-Season Water Table (C2)	
Water M	arks (B1)		Hvdrogen 3	Sulfide (Odor (C1	`	—	Cravfish Burrows (C8)	
Sedimen	t Deposits (B2)		Oxidized R	hizosph	eres on l	, Livina R	oots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift Dep	osits (B3)		Presence	of Reduc	ced Iron ((C4)	s	Stunted or Stressed Plants (D1)	
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	ls (C6)	Geomorphic Position (D2)	
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		X F	FAC-Neutral Test (D5)	
Inundatio	on Visible on Aerial I	nagery (B7) Gauge or \	Nell Dat	a (D9)			、	
Sparsely	Vegetated Concave	Surface (B	8) Other (Exp	lain in R	(Remarks)				
Field Obser	vations:	,	<u> </u>						
Surface Wat	er Present? Ye	s	No X	Depth (i	nches):				
Water Table	Present? Ye	s		Depth (i	nches):				
Saturation P	resent? Ye	s		Depth (i	nches):		Wetland Hydr	rology Present? Yes No X	
(includes car	pillary fringe)	- <u> </u>			- ``-				
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previou	s inspec	tions), if available	:	
	· ·		- ·	·	·		-		
Remarks:									
No hydrology	/ observed.								

Project/Site: Clover	Valley Road 515- Acre Site	City/County: New Albany/	Licking	Sampling Date:	4-13-2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	U-C-15
Investigator(s): Eric N	Nagy, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	errace, etc.): terrace	Local relief (conca	ve, convex, none):	none	
Slope (%):	Lat: 40.100644°	Long: -82.729582°		Datum:	
Soil Map Unit Name:	Pewamo silty clay loam (Pe)		NWI classi	fication: NA	
Are climatic / hydrolo	ogic conditions on the site typical for this time of ye	ar? Yes <u>X</u> No) (If no, exp	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distu	urbed? Are "Normal Circun	nstances" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrology naturally problen	natic? (If needed, explain	any answers in Re	emarks.)	
SUMMARY OF I	FINDINGS – Attach site map showing	sampling point locati	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:					

	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:	
1. Acer saccharum	80	Yes	FACU	Number of Dominant Species That	
2. Carya ovata	20	Yes	FACU	Are OBL, FACW, or FAC:1 (A	.)
3		<u> </u>		Total Number of Dominant Species	
4				Across All Strata:4 (B)
5		<u> </u>		Percent of Dominant Species That	
	100	=Total Cover		Are OBL, FACW, or FAC: 25.0% (A	/B)
Sapling/Shrub Stratum (Plot size: 15')	1				
1				Prevalence Index worksheet:	
2.				Total % Cover of: Multiply by:	
3.				OBL species 0 x 1 = 0	
4.				FACW species 5 x 2 = 10	
5.				FAC species 0 x 3 = 0	
		=Total Cover		FACU species 105 x 4 = 420	
Herb Stratum (Plot size: 5')		-		UPL species 0 x 5 = 0	
1. Geranium maculatum	5	Yes	FACU	Column Totals 110 (A) 430 (B	5
2. Cardamine douglassii	5	Yes	FACW	Prevalence Index = B/A = 3.91	í I
3.					
4.				Hvdrophytic Vegetation Indicators:	
5.		. <u> </u>		1 - Rapid Test for Hydrophytic Vegetation	
6.		<u> </u>		2 - Dominance Test is >50%	
7		- <u> </u>		$3 - Prevalence Index is \leq 3.0^{1}$	
8		- <u> </u>		4 - Morphological Adaptations ¹ (Provide suppo	rting
9				data in Remarks or on a separate sheet)	
10				Problematic Hydrophytic Vegetation ¹ (Explain)	
10	10	=Total Cover			-4
Woody Vine Stratum (Plot size: 15'		- 10121 0010.		be present, unless disturbed or problematic.	SI
1.				Hydrophytic	
2.				Vegetation	
		=Total Cover		Present? Yes No X	
Remarks: (Include photo numbers here or on a separ	ate sheet.)				

(inches) Colc 0-10 10 10 10 10 10 10 10 10 10 10	r (moist) <u>%</u> YR 4/1 <u>90</u> 	Color (moist) 10YR 4/6 =Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surface Loamy Muck	% 10 10 3=Maske 9d Matrix xx (S5) trix (S6)	Type ¹ C 	Loc ² M — — — — — — — — — — — — — — —	Texture Loamy/Clayey	Remarks Prominent redox concentrations
0-10 10 0-10 10 0-1	YR 4/1 90 90 90 90 90 90 90 90 90 90 90 90 90 9	10YR 4/6 10YR 4/6 =Reduced Matrix, MS Sandy Gleye Sandy Redo Sandy Redo Dark Surfact Loamy Muck	<u>10</u> <u>3=Maske</u> ed Matrib ix (S5) trix (S6)	 ed Sanc x (S4)	M 	Loamy/Clayey	Prominent redox concentrations Prominent redox concentrations PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
¹ Type: C=Concentrat Hydric Soil Indicator Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	Lion, D=Depletion, RM rs: (A4) (A5)	=Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surfac Loamy Muck	<u>B</u> =Maske			. ² Location: Indicator	PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
¹ Type: C=Concentrat Hydric Soil Indicator Histosol (A1) Histic Epipedon (A) Black Histic (A3) Hydrogen Sulfide Stratified Layers (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	(A4) (A5)	=Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surface Loamy Muck	<u>S=Maske</u> ad Matrix ix (S5) trix (S6)	 ed Sanc x (S4)		. ² Location: Indicator	PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
¹ Type: C=Concentral Hydric Soil Indicator Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	(A4) (A5)	=Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surface Loamy Muck	3=Maske ad Matrib IX (S5) trix (S6)	ed Sanc		² Location: Indicator	PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
¹ Type: C=Concentral Hydric Soil Indicato Histosol (A1) Histic Epipedon (. Black Histic (A3) Hydrogen Sulfide Stratified Layers (2 cm Muck (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Pieat		=Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surfac Loamy Muck	3=Maske ed Matrix x (S5) trix (S6)	 ed Sanc x (S4)	Grains	. ² Location: Indicator	PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
¹ Type: C=Concentrat Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers (2 cm Muck (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	(A4) (A5)	=Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surfac Loamy Muck	S=Maske ed Matrix vx (S5) trix (S6)	ed Sanc		. ² Location: Indicator	PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
¹ Type: C=Concentral Hydric Soil Indicator Histosol (A1) Histic Epipedon (A) Black Histic (A3) Hydrogen Sulfide Stratified Layers (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	(A4) (A5)	=Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surface Loamy Muck	S=Maske ed Matrix x (S5) trix (S6)	ed Sanc	I Grains	s. ² Location: Indicator	PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
¹ Type: C=Concentrat Hydric Soil Indicato Histosol (A1) Histic Epipedon (A) Black Histic (A3) Hydrogen Sulfide Stratified Layers (A) 2 cm Muck (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	(A4) (A5)	=Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surface Loamy Muck	S=Maske ed Matrix x (S5) trix (S6)	ed Sanc x (S4)	Grains	. ² Location: Indicator	PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
¹ Type: C=Concentrat Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers (2 cm Muck (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	ion, D=Depletion, RM rs: (A2) (A4) (A5)	=Reduced Matrix, MS Sandy Gleye Sandy Redo Stripped Ma Dark Surfac Loamy Muck	S=Masku ed Matrix x (S5) trix (S6)	ed Sanc	Grains	² Location: Indicator	PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers (2 cm Muck (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	rs: A2) (A4) (A5)	Sandy Gleye Sandy Redo Stripped Ma Dark Surface	ed Matri: ›x (S5) trix (S6)	x (S4)		Indicators	s for Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A) Black Histic (A3) Hydrogen Sulfide Stratified Layers (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	A2) (A4) (A5)	Sandy Gleye Sandy Redo Stripped Ma Dark Surface Loamy Muck	ed Matri: »x (S5) trix (S6)	x (S4)			
Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers (2 cm Muck (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	A2) (A4) (A5)	Sandy Redo Stripped Ma Dark Surface	x (S5) trix (S6)			Coas	t Prairie Redox (A16)
Black Histic (A3) Hydrogen Sulfide Stratified Layers 2 cm Muck (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	(A4) (A5)	Stripped Ma	trix (S6)			Iron-M	<i>l</i> langanese Masses (F12)
Hydrogen Sulfide Stratified Layers 2 cm Muck (A10) Depleted Below D Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	(A4) (A5)	Dark Surface	Black Histic (A3) Stripped Matrix (S6)			Red F	Parent Material (F21)
Stratified Layers 2 cm Muck (A10) Depleted Below E Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	(A5))ark Surface (A11)	Loamy Muck	e (S7)			Very	Shallow Dark Surface (F22)
2 cm Muck (A10) Depleted Below [Thick Dark Surfac Sandy Mucky Mir 5 cm Mucky Peat	ark Surface (A 11)		ky Miner	al (F1)		Other	^r (Explain in Remarks)
Depleted Below [Thick Dark Surface Sandy Mucky Mir 5 cm Mucky Peat	ark Surface (A11)	Loamy Gley	ed Matri	ix (F2)			
Thick Dark Surface Sandy Mucky Mir 5 cm Mucky Peat		X Depleted Ma	atrix (F3))			
Sandy Mucky Mir 5 cm Mucky Peat	ce (A12)	Redox Dark	Surface	e (F6)		³ Indicator	s of hydrophytic vegetation and
5 cm Mucky Peat	eral (S1)	Depleted Da	ark Surfa	ice (F7)		wetla	nd hydrology must be present,
	or Peat (S3)	? Redox Depr	essions	(F8)		unles	s disturbed or problematic.
Restrictive Layer (if	observed):						
Туре:							
Depth (inches):						Hydric Soil Present	? Yes <u>X</u> No
HYDROLOGY							
Wetland Hydrology	Indicators:						
Primary Indicators (m	inimum of one is requ	ired; check all that ap	<u>oply)</u>			<u>Secondar</u>	y Indicators (minimum of two required
Surface Water (A	1)	Water-Stain	ed Leav	es (B9)		Surfa	ce Soil Cracks (B6)
High Water Table	(A2)		na (B13)		Drain	age Patterns (B10)
Saturation (A3)			o Plants Ulfido O	(B14) dor (C1)		Dry-5	
Valer Marks (D1)) te (B2)			roe on l	iving P	oots (C3) Satur	isii Bullows (Co) ation Visible on Aerial Imagen((CQ)
Drift Deposits (B?		Presence of	Reduce	nes on i ad Iron (Stunt	ed or Stressed Plants (D1)
Algal Mat or Crus	'' t (B4)	Recent Iron	Reducti	on in Ti	lled Soil	Is (C6) Geom	a orphic Position (D2)
Iron Deposits (B5)	Thin Muck S	Surface ((C7)		FAC-	Neutral Test (D5)
Inundation Visible	, on Aerial Imagery (B	7) Gauge or W	ell Data	(D9)			
Sparsely Vegetat	ed Concave Surface (B8) Other (Expla	ain in Re	marks)			
Field Observations:		<u> </u>		,			
Surface Water Prese	nt? Yes	No X D	epth (in	ches):			
Water Table Present	Yes		epth (in	ches):			
Saturation Present?	Yes	No X D	epth (in	ches):		Wetland Hydrolog	y Present? Yes No X
(includes capillary frir	ige)			· -			·•
Describe Recorded D	ata (stream gauge, m	onitoring well, aerial	photos,	previou	s inspec	tions), if available:	
Remarks:							

Project/Site: Clover Valley Road 515- Acre Site	City/County	: New Albany/ Licking		Sampling Date:	4-19-2022
Applicant/Owner: The New Albany Compared	/	State:	ОН	Sampling Point:	U-D-4
Investigator(s): Eric Nagy, EMH&T	Section, Tow	nship, Range: T. 2 N	l; R. 15 W		
Landform (hillside, terrace, etc.): slope	Loc	al relief (concave, con	vex, none):	sloping	
Slope (%): Lat:40.100715°	Long: <u>-82</u>	728448°	I	Datum:	
Soil Map Unit Name: Pewamo silty clay loam ('e)		NWI classif	ication: NA	
Are climatic / hydrologic conditions on the site	pical for this time of year? Ye	s <u>X</u> No	(If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrolog	significantly disturbed? Are	"Normal Circumstance	s" present?	Yes <u>X</u> No	·
Are Vegetation, Soil, or Hydrolog	naturally problematic? (If n	eeded, explain any ans	swers in Rer	narks.)	
SUMMARY OF FINDINGS – Attach	ite map showing sampling	point locations, t	ransects,	important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer saccharinum	80	Yes	FACW	Number of Dominant Species That
2. Carya ovata	15	No	FACU	Are OBL, FACW, or FAC: 2 (A)
3. Juglans nigra	5	No	FACU	Total Number of Dominant Species
4				Across All Strata:4 (B)
5.				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 50.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15')				
1. Lindera benzoin	40	Yes	FACW	Prevalence Index worksheet:
2. Rosa multiflora	10	Yes	FACU	Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 122 x 2 = 244
5.				FAC species 0 x 3 = 0
	50	=Total Cover		FACU species 55 x 4 = 220
Herb Stratum (Plot size: 5')				UPL species 0 x 5 = 0
1. Geranium maculatum	25	Yes	FACU	Column Totals 177 (A) 464 (B)
2. Cardamine douglassii	2	No	FACW	Prevalence Index = B/A = 2.62
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 ¹
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	27	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woodv Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
, 1.				
2.				Hydropnytic Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separate	ate sheet.)		I	

Columents % Color (model) % Model % % % % <t< th=""><th>Profile Desc</th><th>cription: (Describe</th><th>to the depti</th><th>h needed to docu Redo</th><th>ument ti v Featur</th><th>ne indica</th><th>ator or o</th><th>confirm the absend</th><th>ce of indicators.)</th></t<>	Profile Desc	cription: (Describe	to the depti	h needed to docu Redo	ument ti v Featur	ne indica	ator or o	confirm the absend	ce of indicators.)
Update Code (Index) a 192 Code Table Prominent redox concentrations 0-10 10VR 4/1 00 10VR 5/6 10 C M LeamyClayey Prominent redox concentrations	(inches)	Color (moist)	%	Color (moist)	<u>% reatur</u>	Type ¹		Texture	Remarks
Image: Standard S	<u>(incries)</u> 0-10	10YR 4/1	90	10YR 5/6	<u></u> 10	<u>- 1366</u>	 		Remarks
"Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. *Location: PL=Pore Lining, M-Matrix. "Hydric Soll Indicators: Indicators for Problematic Hydric Solls?: Indicators for Problematic Hydric Solls?: Hatto Epipedon (X2) Sandy Redox (S5) Ion-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Matrice (F22) Stription Matrix (S6) Learny Muddy Mineral (F1) Other (Explain in Remarks) 2 cm Mudc (A10) Learny Glayd Matrix (F2) Other (Explain in Remarks) 2 cm Mudc (A10) Learny Glayd Matrix (F2) Thick Dark Surface (F2) Stripped Matrix (F3) Depleted Dark Surface (F6) *Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Second Mudcy Pest or Pest (S3) Redox Dark Surface (F6) *Indicators of Hydrophylic vagetation and wetland frydrology indicators of Hydrol Solls, Version 7.0, 2015 Trype:				1011(0,0					
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		lucky Mineral (S1)		Depleted L	Dark Sur	tace (F7))	We	etland hydrology must be present,
Restrictive Layer (if observed): Type:		ICKY Peat of Peat (Sa	\$)		pression	s (F8)		ur	ness disturbed or problematic.
Upper Hydric Soil Present? YesXNo Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crarghis Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Inn Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inn Deposits (B5) NoX Depth (inches):	Restrictive	Layer (if observed):							
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)									
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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 (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) 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: Water Table (Present? Yes No X Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inclues): Wetland Hydrology Present? Yes No X No X No X Depth (inches): No X Depth (inches): No X No X Includes capillary fringe) Describe Recorded Dat	Primary India	cators (minimum of c	ne is require	ad: check all that :	annly)			Secon	dary Indicators (minimum of two required)
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 (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) 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) Sufface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): No Saturation Present? Yes No X Depth (inches): No X Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology observed. No hydrology observed. Staturation Staturation Staturation Staturation Staturation Staturation Present?	Surface	Water (A1)		Water-Stai	ined Lea	ves (R9)	1	<u></u>	urface Soil Cracks (B6)
	High Wa	iter Table (A2)		Aquatic Fa	una (B1	3)		0	rainage Patterns (B10)
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) 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 No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No X	Saturatio	on (A3)		True Aqua	tic Plant	⊂, s (B14)		D	ry-Season Water Table (C2)
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) 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 No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Mater Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology observed. No hydrology observed.	Water M	larks (B1)		Hvdrogen	Sulfide (- (_ : :) Ddor (C1)	C	ravfish Burrows (C8)
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) Vester Table Present? Yes No X Depth (inches): Vester Table Present? Yes No Saturation Present? Yes No X Depth (inches): Vester Inches): No X Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology observed.	Sedimer	nt Deposits (B2)		Oxidized F	Rhizosph	eres on l	, Living R	oots (C3) Sa	aturation Visible on Aerial Imagery (C9)
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) Feld Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology observed. No hydrology observed. No	Drift Dep	osits (B3)		Presence	of Reduc	ed Iron ((C4)	St	unted or Stressed Plants (D1)
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 No Surface Water Present? Yes No X Vater Table Present? Yes No X Saturation Present? Yes No X Includes capillary fringe) No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology observed. No No	Algal Ma	at or Crust (B4)		Recent Iro	n Reduc	tion in Ti	illed Soi	ls (C6) Ge	eomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No No	Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		F#	AC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)Other (Explain in Remarks) Field Observations:	Inundatio	on Visible on Aerial I	magery (B7)	Gauge or V	Nell Dat	a (D9)			
Field Observations: Surface Water Present? Yes No X Depth (inches):	Sparsely	Vegetated Concave	Surface (B8	3)Other (Exp	lain in R	emarks)			
Surface Water Present? Yes No X Depth (inches):	Field Obser	vations:							
Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Depth (inches): Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Wat	er Present? Ye	s	No <u>X</u>	Depth (i	nches): _			
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Depth (inches):	Water Table	Present? Ye	s	No <u>X</u>	Depth (i	nches): _			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology observed.	Saturation P	resent? Ye	s	No <u>X</u>	Depth (i	nches): _		Wetland Hydro	ology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology observed.	(includes ca	pillary fringe)							
Remarks: No hydrology observed.	Describe Re	corded Data (stream	gauge, mor	nitoring well, aeria	l photos	, previou	s inspec	ctions), if available:	
kemarks: No hydrology observed.	Dama I								
no nyalology observed.	No bydrology	vobserved							
		,							

Project/Site: Clover	roject/Site: Clover Valley Road 515- Acre Site			City/County: New Albany/ Licking Sampling Date:					
Applicant/Owner:	The N	lew Albany Company				State:	ОН	Sampling Point:	U-E-9
Investigator(s): Eric	Nagy, E	EMH&T	Se	ction, 1	Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, t	errace,	etc.): terrace			Local relief (conca	ve, conv	ex, none):	none	
Slope (%):	Lat:	40.099996°		Long: _	-82.728176°			Datum:	
Soil Map Unit Name	e: <u>Pewa</u>	mo silty clay loam (Pe)				I	NWI class	ification: NA	
Are climatic / hydrol	logic co	nditions on the site typica	I for this time of year	?	Yes X No	>	(If no, ex	plain in Remarks.)	
Are Vegetation	_, Soil	, or Hydrology	_significantly disturb	ed? /	Are "Normal Circur	nstances	s" present	? Yes <u>X</u> No) <u> </u>
Are Vegetation	_, Soil	, or Hydrology	naturally problemat	ic? ((If needed, explain	any ans	wers in Re	emarks.)	
SUMMARY OF	FIND	INGS – Attach site I	map showing sa	mplir	ng point locati	ons, tr	ansects	s, important fea	tures, etc.

Hydrophytic Vegetation Present?	Yes	x	No		is the Sampled Area		
Hydric Soil Present?	Yes	Х	No		within a Wetland?	Yes	No_X
Wetland Hydrology Present?	Yes		No	x			
Remarks:							

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer rubrum	30	Yes	FAC	Number of Dominant Species That
2. Juglans nigra	60	Yes	FACU	Are OBL, FACW, or FAC: <u>3</u> (A)
3. <u>Ulmus americana</u>	10	No	FACW	Total Number of Dominant Species
4				Across All Strata: 5 (B)
5				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 60.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15')				
1. Lindera benzoin	40	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 60 x 2 = 120
5.				FAC species 30 x 3 = 90
	40	=Total Cover		FACU species 75 x 4 = 300
Herb Stratum (Plot size: 5')				UPL species $0 \times 5 = 0$
1 Geranium maculatum	15	Yes	FACU	Column Totals: 165 (A) 510 (B)
2 Cardamine douglassii	10	Ves	FACW	$\frac{1}{2} \frac{1}{2} \frac{1}$
3		103		
3				Hydrophytic Versitation Indicatory
+				1 Depid Test for Hydrophytic Vegetation
S:				1 - Rapid Test for Hydrophytic Vegetation
6				
<i>I</i>				3 - Prevalence Index is ≤3.0
8				4 - Morphological Adaptations (Provide supporting
9				
10				Problematic Hydrophytic Vegetation (Explain)
	25	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separate	ate sheet.)			

(inches) Color (r			Redo	x Featur	es					
	moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-15 10YR	.3/1 .	95	10YR 5/6	5	c	м	Loamy/Clayey	Prominent redox concentrations		
15-20 10YR	ε 4/1 ε	30	10YR 5/6	20	С	м	Loamy/Clayey	Prominent redox concentrations		
Type: C=Concentration Iydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dar Thick Dark Surface Sandy Mucky Miner	(A12) al (S1)	<u></u> <u></u> <u>n, RM=</u>	Reduced Matrix, M Sandy Gle Sandy Red Stripped M Dark Surfa Loamy Mu Loamy Gle Depleted M X Redox Dar	yed Mati Jox (S5) latrix (S6 ice (S7) cky Mine syed Mat Atrix (F: k Surfac Dark Surf	ked Sanc rix (S4) i) rix (F2) 3) e (F6) face (F7)	d Grains.	² Location Indicato Coas Iron- Red Very Othe ³ Indicato wetla	n: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ : st Prairie Redox (A16) Manganese Masses (F12) Parent Material (F21) Shallow Dark Surface (F22) or (Explain in Remarks) rs of hydrophytic vegetation and and hydrology must be present,		
_ Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 5 cm Mucky Peat or Peat (S3) ? Redox Depressions (F8)							wetland hydrology must be present, unless disturbed or problematic.			
Type: Depth (inches):			_				Uudria Cail Dreasn			
Remarks: This data form is revised Frrata. (http://www.nrcs.	d from Midwes usda.gov/Inte	st Regio ernet/FS	mal Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the I 293.docx)	NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015		
Remarks: Fhis data form is revised Errata. (http://www.nrcs.	J from Midwee usda.gov/Inte	st Regio	Dnal Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the I 293.docx)	NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015		
Remarks: This data form is revised Errata. (http://www.nrcs. IYDROLOGY Wetland Hydrology Ind	J from Midwee usda.gov/Inte	st Regio ∍rnet/FS	Donal Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc p2_0512	lude the I 293.docx)	NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015		
Remarks: This data form is revised Errata. (http://www.nrcs. YDROLOGY Vetland Hydrology Ind Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Inundation Visible on Sparsely Vegetated	d from Midwei usda.gov/Inte licators: mum of one is (2) (B2) 34) n Aerial Image Concave Sur	st Regin ernet/FS s requir ery (B7) face (B	ed; check all that Mater-Sta Mater-Sta Aquatic Fa True Aqua Mydrogen Oxidized F Presence Recent Iro Thin Muck) Gauge or 1 8) Other (Exp	/ersion 2 /nrcs142 apply) ined Lea una (B1 tic Plant Sulfide C hizosph of Reduc n Reduc Surface Well Dat lain in R	2.0 to inc 2.0 to inc 2.0512 ves (B9) 3) s (B14) Odor (C1) eres on l ced Iron (tion in Ti (C7) a (D9) emarks)) Living Ro (C4) Iled Soils	VRCS Field Indicator VRCS Field Indicator Seconda Surfa Drain Dry-3 Cray ots (C3) Stun (C6) K FAC	ry Indicators (minimum of two requir ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)		

roject/Site: Clover Valley Road 515- Acre Site			C	ity/Cour	ity: New Albany/	Sampling Date:	4-19-2022		
Applicant/Owner:	The N	ew Albany Company				_State:	ОН	Sampling Point:	U-F-2
Investigator(s): Eric	Nagy, E	MH&T	Se	ection, T	ownship, Range:	T. 2 N;	R. 15 W		
Landform (hillside, t	terrace, e	etc.): terrace		L	ocal relief (conca	ve, conv	ex, none)	: none	
Slope (%):	_ Lat: _	40.099551°	Long: <u>-</u> 8	-82.730613°			Datum:		
Soil Map Unit Name	e: Bennir	ngton silt loam (BeB)				N	WI class	sification: NA	
Are climatic / hydro	logic cor	ditions on the site typic	al for this time of year	? `	res <u>X</u> No	»	(If no, ex	oplain in Remarks.)	
Are Vegetation	_, Soil_	, or Hydrology	significantly disturb	ed? A	re "Normal Circur	nstances	" present	? Yes <u>X</u> No	»
Are Vegetation	_, Soil_	, or Hydrology	naturally problemat	tic? (l	f needed, explain	any ansv	vers in R	emarks.)	
SUMMARY OF	FINDI	NGS – Attach site	map showing sa	mplin	g point locati	ons, tra	ansect	s, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes YesX	No <u>X</u> No	Is the Sampled Area within a Wetland?	Yes	No_X_
Wetland Hydrology Present?	Yes	No X			
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Gleditsia triacanthos	30	Yes	FACU	Number of Dominant Species That
2. Fraxinus pennsylvanica	15	Yes	FACW	Are OBL, FACW, or FAC: 2 (A)
3				Total Number of Dominant Species
4				Across All Strata:4 (B)
5				Percent of Dominant Species That
	45	=Total Cover		Are OBL, FACW, or FAC: 50.0% (A/E
Sapling/Shrub Stratum (Plot size: 15')				
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 65 x 2 = 130
5.				FAC species 0 x 3 = 0
		=Total Cover		FACU species 70 x 4 = 280
Herb Stratum (Plot size: 5')		,		UPL species 0 x 5 = 0
1. Apocynum cannabinum	30	Yes	FACU	Column Totals: 135 (A) 410 (B)
2. Solidago canadensis	50	Yes	FACW	Prevalence Index = B/A = 3.04
3. Rosa carolina	10	No	FACU	
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 ¹
8.				4 - Morphological Adaptations ¹ (Provide supporti
9.		,		data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	90	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15')		,		be present, unless disturbed or problematic.
1. , <u> </u>				
2.				Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	ate sheet.)	·		<u> </u>

Profile Desc	ription: (Describe	to the dept	th needed to docu	ument th	ne indica	ator or o	confirm the absence o	of indicators.)		
Depth	Matrix		Redo	x Feature	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Ren	narks	
0-15	10YR 3/1	95	10YR 5/6	5	С	М	Loamy/Clayey	Prominent redo	x concer	trations
15-20	10YR 4/1	70	10YR 5/6	30	c	м	Loamy/Clayey	Prominent redo	x concer	trations
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Masl	ked Sand	d Grains	s. ² Location:	PL=Pore Lining, N	/I=Matrix.	,
Hydric Soil	Indicators:						Indicator	s for Problematic	Hydric S	oils ³ :
Histosol	(A1)		Sandy Gle	yed Mati	rix (S4)		Coast	Prairie Redox (A10	6)	
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iron-M	langanese Masses	(F12)	
Black His	stic (A3)		Stripped N	latrix (S6	5)		Red F	Parent Material (F21	1)	
Hydroge	n Sulfide (A4)		Dark Surfa	ice (S7)			Very	Shallow Dark Surfa	ce (F22)	
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Other	(Explain in Remark	<s)< td=""><td></td></s)<>	
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)					
Depleted	Below Dark Surface	(A11)	Depleted N	Aatrix (F:	3)					
Thick Da	rk Surface (A12)	X Redox Dar	k Surfac	æ (F6)		³ Indicators	s of hydrophytic veg	getation a	and	
Sandy M	ucky Mineral (S1)	Depleted [Dark Surl	face (F7))	wetla	nd hydrology must l	be preser	nt,	
5 cm Mu	cky Peat or Peat (S3	? Redox Dep	pressions	s (F8)		unles	s disturbed or probl	ematic.		
Restrictive Layer (if observed):										
Туре:										
Depth (ir	nches):						Hydric Soil Present	? Yes	X	No
This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)										
HYDROLO	GY									
Wetland Hy	drology Indicators:									
Primary India	cators (minimum of o	ne is requir	ed; check all that	apply)			Secondar	y Indicators (minim	um of two	<u>required)</u>
Surface	Water (A1)		Water-Stained Leaves (B9)				Surface Soil Cracks (B6)			
High Wa	ter Table (A2)		Aquatic Fa	una (B1	3)		Drain	age Patterns (B10)		
Saturatio	on (A3)		True Aqua	tic Plants	s (B14)		Dry-S	eason Water Table	e (C2)	
Water M	arks (B1)		Hydrogen	Sulfide C	Odor (C1)	Crayf	ish Burrows (C8)		(00)
Sedimen	it Deposits (B2)			Rhizosph	eres on I		loots (C3) Satur	ation Visible on Aer	ial Image	ery (C9)
	osits (B3)		Presence	of Reduc	ed Iron ((C4) II.a.d. O.a.:		ed or Stressed Plan	nts (D1)	
	t or Crust (B4)		Recent Iro	n Reduc		lied Sol		Noutral Test (DE)	2)	
- Inundetic	USIIS (DD) an Visible on Acriel Ir	nogon/ /P7					FAC-	veutrai rest (D5)		
Sparsely	Vegetated Concave	Surface (Br	B Other (Evr	ven Dau	a (D9) Iomarke)					
		Sunace (B			emarksj					
Field Obser		_	N- V	D# //						
Surface wat	Present? Yes	s		Depth (II	ncnes):					
Valer Table	Present? Yes	s		Depth (II	ncnes): 		Matlend Undralas			
	illen (fringe)	s		Deptil (ii	icites).		wetiand Hydrolog	y riesent? Tes		
Describe Ro	corded Data (stream		nitoring well serie	l photos	nreviou	s inener	tions) if available:			
	Soluci Data (Stredill	gaage, mo	moring weil, delld	. priotos,	PIEVIOU	s napet				
Remarks:										
No hydrology	/ observed.									

Project/Site: Clover Valley Road 515- Acre Site		City/County: New Albany/	Licking	Sampling Date:	4-19-2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	U-G-42
Investigator(s): Eric N	lagy, EMH&TS	ection, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	rrace, etc.): terrace	Local relief (concav	ve, convex, none):	none	
Slope (%):	Lat: 40.100665°	Long: -82.729857°		Datum:	
Soil Map Unit Name:	Pewamo silty clay loam (Pe)		NWI classi	fication: NA	
Are climatic / hydrolo	gic conditions on the site typical for this time of yea	r? Yes <u>X</u> No	(If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distur	bed? Are "Normal Circum	stances" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrology naturally problema	tic? (If needed, explain a	any answers in Re	marks.)	
SUMMARY OF	INDINGS – Attach site map showing sa	ampling point location	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes YesX Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No_X
Remarks:					

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:				
1. Carya ovata	50	Yes	FACU	Number of Dominant Species That				
2. Ulmus americana	50	Yes	FACW	Are OBL, FACW, or FAC: 3 (A)				
3.				Total Number of Dominant Species				
4.				Across All Strata: 6 (B)				
5.				Percent of Dominant Species That				
	100	=Total Cover		Are OBL, FACW, or FAC: 50.0% (A/B)				
Sapling/Shrub Stratum (Plot size: 15')								
1. Lindera benzoin	10	Yes	FACW	Prevalence Index worksheet:				
2. Ligustrum vulgare	5	Yes	FACU	Total % Cover of: Multiply by:				
3.				OBL species 0 x 1 = 0				
4.				FACW species 65 x 2 = 130				
5.				FAC species 0 x 3 = 0				
	15	=Total Cover		FACU species 65 x 4 = 260				
Herb Stratum (Plot size: 5')				UPL species $0 \times 5 = 0$				
1. Geranium maculatum	10	Yes	FACU	Column Totals 130 (A) 390 (B)				
2. Cardamine douglassii	5	Yes	FACW	Prevalence Index = B/A = 3.00				
3.								
4.				Hydrophytic Vegetation Indicators:				
5.				1 - Rapid Test for Hydrophytic Vegetation				
6.				- 2 - Dominance Test is >50%				
7.				3 - Prevalence Index is ≤3.0 ¹				
8.				4 - Morphological Adaptations ¹ (Provide supporting				
9.				data in Remarks or on a separate sheet)				
10.				Problematic Hydrophytic Vegetation ¹ (Explain)				
	15	=Total Cover		¹ Indicators of hydric soil and watland hydrology must				
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.				
<u></u> , (
2				Hydrophytic Vegetation				
		=Total Cover		Present? Yes No X				
Pomarka: (Include photo numbers here of an a const								
Remarks. (include proto numbers here of on a separa	ale Sheet.)							

Depth Matrix Redox Features (Inches) Color (moist) % Type1 Loc2 Texture Remarks 0-4 10YR 4/2 100
(inches) Color (moist) % Type ¹ Loc ² Texture Remarks 0.4 10YR 4/2 100
0-4 10YR 4/2 100
4-10 10YR 4/1 85 10YR 4/6 15 C M Leamy/Clayey Prominent redox concentrations "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ?Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosoi (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histosoi (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) X Depleted Dark Surface (F6) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depleted Matrix (F3) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Remarks: Thick data form is revised from Midwest Regional Su
Image:
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Yeartified Layers (A5) Loamy Mucky Mineral (F1) Cost Prairie Redox (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F2) Belate Matrix (S1) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Yes_X Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) Hydric Soil Present?
Image:
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Hydric Soll Indicators: Indicators for Problematic Hydric Solls ³ :
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histosol (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) 2 cm Muck (A10) Loamy Gleyed Matrix (F2)
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Type: Hydric Soil Present? Yes X No Depth (inches):
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HYDROLOGY
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HYDROLOGY
HYDROLOGY
Wetland Hydrology Indicators:
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2)
Water Marks (B1) Hvdroden Sulfide Odor (C1) Cravfieh Burrowe (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
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)
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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) 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)
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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) 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) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
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) 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) Field Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X
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) 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 No X Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Circludes capillary fringe) Thin Depth (inches): No X
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) 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) Feld Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Vertical Stream gauge No X
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) 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) Feld Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Includes capillary fringe) Depth (inches): Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Persent? Persent? Yes No X
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) 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) Field Observations: Surface Water Present? Yes No X Vater Table Present? Yes No X Includes capillary fringe) Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology observed.

Project/Site: Clover	Valley	Road 515- Acre Site		City/Co	unty: New Albany/ Licking Sampling Dat				4-20-2022
Applicant/Owner:	The (City of New Albany				State:	ОН	Sampling Point:	Up-H-2
Investigator(s): Eric I	Nagy, I	EMH&T		Section,	Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, te	errace,	etc.): terrace			Local relief (conca	ve, conv	ex, none)	none	
Slope (%):	Lat:	Lat: 40.096472°			Long: <u>-82.732406°</u>			Datum:	
Soil Map Unit Name:	Benn	ington silt loam (BeB)				N	WI class	ification: NA	
Are climatic / hydrold	ogic co	onditions on the site typica	al for this time of ye	ar?	Yes X No)	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	_significantly dist	urbed?	Are "Normal Circun	nstances	" present	? Yes <u>X</u> No	,
Are Vegetation	, Soil	, or Hydrology	naturally problem	natic?	(If needed, explain	any ansv	vers in Re	emarks.)	
SUMMARY OF	FIND	INGS – Attach site	map showing	sampli	ing point locati	ons. tra	ansects	s, important fea	tures. etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No_X
Remarks:					

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:				
1				Number of Dominant Species That				
2				Are OBL, FACW, or FAC: 0 (A)				
3				Total Number of Dominant Species				
4				Across All Strata: <u>3</u> (B)				
5				Percent of Dominant Species That				
		=Total Cover		Are OBL, FACW, or FAC: 0.0% (A/B)				
Sapling/Shrub Stratum (Plot size: 15')							
1.				Prevalence Index worksheet:				
2.				Total % Cover of: Multiply by:				
3.				OBL species 0 x 1 = 0				
4.				FACW species 0 x 2 = 0				
5.				FAC species 0 x 3 = 0				
		=Total Cover		FACU species 100 x 4 = 400				
Herb Stratum (Plot size: 5')		-		UPL species 0 x 5 = 0				
1. Trifolium repens	20	Yes	FACU	Column Totals 100 (A) 400 (B)				
2. Festuca spp.	70	Yes	FACU	Prevalence Index = B/A = 4.00				
3.		- <u> </u>						
4.		·		Hydrophytic Vegetation Indicators:				
5.		- <u></u>		- 1 - Rapid Test for Hydrophytic Vegetation				
6.		·		- 2 - Dominance Test is >50%				
7.		·		$3 - Prevalence Index is \leq 3.0^1$				
8		·		4 - Morphological Adaptations ¹ (Provide supporting				
9.				data in Remarks or on a separate sheet)				
10.		·		Problematic Hydrophytic Vegetation ¹ (Explain)				
	90	=Total Cover		¹ Indicators of hydric coil and watland hydrology must				
Woody Vine Stratum (Plot size: 15')	•		be present, unless disturbed or problematic.				
1. Vitis labrusca	10	Yes	FACU	Undrankudia				
2.				Negetation				
	10	=Total Cover		Present? Yes No X				
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			•				

Profile Desc	cription: (Describe	to the dept	h needed to doc	ument t	he indica	ator or o	confirm the absence of	indicators.)	
				x Featur	res Turn a ¹	12	- (_ .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	_%_	Type		lexture	Remarks	
0-20	10YR 4/3	100					Loamy/Clayey		
		<u> </u>							
¹ Type: C=C	oncentration, D=Dep	letion, RM=I	Reduced Matrix, N	//S=Mas	ked Sand	d Grains	. ² Location:	PL=Pore Lining, M=Ma	trix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydri	c Soils":
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coast	Prairie Redox (A16)	
Histic Ep	pipedon (A2)		Sandy Red	dox (S5)			Iron-M	anganese Masses (F12)
Black Hi	stic (A3)		Stripped M	latrix (S	6)		Red Pa	arent Material (F21)	
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very S	hallow Dark Surface (F:	22)
Stratified	I Layers (A5)		Loamy Mu	icky Min	eral (F1)		Other	(Explain in Remarks)	
^{2 cm Mu}	ick (A10)		Loamy Gle	eyed Ma	trix (F2)				
Depleted	Below Dark Surface	e (A11)	Depleted N	Matrix (F	3)		a		
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)			Redox Da	rk Surfac	ce (F6)		°Indicators	of hydrophytic vegetation	on and
Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)			Depleted [Dark Sur	face (F7)		wetlan	d hydrology must be pre	esent,
5 cm Mu	icky Peat or Peat (S3)	Redox De	pression	is (F8)		unless	disturbed or problemat	ic.
Restrictive	Layer (if observed):								
Туре:									
Depth (ir	nches):		_				Hydric Soil Present?	Yes	NoX
Errata. (http:	//www.nrcs.usda.gov	/Internet/FS	E_DOCUMENTS	/nrcs142	2p2_0512	293.doc	x)		
HYDROLC	GY								
Wetland Hy	drology Indicators:								
Primary India	cators (minimum of c	ne is require	ed; check all that	apply)			Secondary	Indicators (minimum of	two required)
Surface	Water (A1)		Water-Sta	ined Lea	aves (B9)		Surfac	e Soil Cracks (B6)	
High Wa	iter Table (A2)		Aquatic Fa	auna (B1	3)		Draina	ge Patterns (B10)	
Saturatio	on (A3)		True Aqua	tic Plant	ts (B14)		Dry-Se	ason Water Table (C2)	
Water M	arks (B1)		Hydrogen Sulfide Odor (C1)				Crayfis	h Burrows (C8)	
Sedimer	nt Deposits (B2)			Oxidized Rhizospheres on Living Ro				tion Visible on Aerial Im	agery (C9)
Drift Dep	oosits (B3)		Presence	of Redu	ced Iron ((C4)	Stunte	d or Stressed Plants (D	1)
	it or Crust (B4)		Recent Iro	n Reduc		lled Sol	Is (C6) Geom	orphic Position (D2)	
I Iron Dep	OSIts (B5)	(07)		Surface	e (C7)			eutral Test (D5)	
	on Visible on Aerial II	nagery (B7)	Gauge or	well Dat	(D9)				
Sparsely	vegetated Concave	Surface (Ba		Diain in F	kemarks)				
Field Obser	vations:			D <i>U U</i>					
Surface wat	er Present? Ye	s		Depth (I	ncnes):				
Water I able	Present? Ye	s		Depth (I	inches): 			- D	N- X
Saturation P	resent? re	s		Depth (I	inches): -		wetiand Hydrology		
Describe Re	oundry IIInge)			Inhotos	proview	e inener	tions) if available:		
	Corueu Data (Stream	yauye, mor	ntoring well, aeria	n priotos	, previou	э шэрес	nons), ii avalladie.		
Remarks:									
No hydroloa	y observed.								
Project/Site: Clover \	/alley Road 515- Acre Site Cit	y/County: New Albany/	Sampling Date:	4-19-2022					
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Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	U-I-1				
Investigator(s): Eric N	lagy, EMH&TSec	tion, Township, Range:	T. 2 N; R. 15 W						
Landform (hillside, te	rrace, etc.): terrace	Local relief (conca	ive, convex, none):	none					
Slope (%):	Lat: 40.098104° L	ong: <u>-82.731847°</u>		Datum:					
Soil Map Unit Name:	Pewamo silty clay loam (Pe)		NWI classi	fication: NA					
Are climatic / hydrolo	gic conditions on the site typical for this time of year?	Yes <u>X</u> No	o (If no, exp	plain in Remarks.)					
Are Vegetation	, Soil, or Hydrologysignificantly disturbe	d? Are "Normal Circun	nstances" present?	Yes <u>X</u> No)				
Are Vegetation	, Soil, or Hydrology naturally problemation	? (If needed, explain	any answers in Re	emarks.)					
SUMMARY OF F	INDINGS – Attach site map showing sar	npling point locati	ons, transects	, important fea	tures, etc.				

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes _X Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No_X
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus strobus	30	Yes	FACU	Number of Dominant Species That
2				Are OBL, FACW, or FAC: 0 (A)
3.				Total Number of Dominant Species
4				Across All Strata:4(B)
5				Percent of Dominant Species That
	30	=Total Cover		Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15')		-		
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 0 x 2 = 0
5.				FAC species 0 x 3 = 0
		=Total Cover		FACU species 110 x 4 = 440
Herb Stratum (Plot size: 5')		-		UPL species 30 x 5 = 150
1. Glechoma hederacea	10	No	FACU	Column Totals: 140 (A) 590 (B)
2. Taraxacum officinale	30	Yes	UPL	Prevalence Index = B/A = 4.21
3. Festuca spp.	60	Yes	FACU	
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.		·		3 - Prevalence Index is ≤3.0 ¹
8				4 - Morphological Adaptations ¹ (Provide supporting
9.		·		data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	100	=Total Cover		¹ Indicators of bydric soil and wetland bydrology must
Woody Vine Stratum (Plot size: 15')		-		be present, unless disturbed or problematic.
1. Vitis labrusca	10	Yes	FACU	Urdrophreio
2.				Vegetation
	10	=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Profile Desc	ription: (Describe	to the dept	h needed to docu	ument th	ne indica	ator or o	confirm the a	bsence o	f indicators	.)	
Depth	Matrix		Redo	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	re		Remarks	
0-10	10YR 4/1	95	10YR 4/4	5	c	м	Loamy/Cl	layey	Distinct	redox conce	ntrations
¹ Type: C=C	oncentration. D=Dep	etion. RM=I	Reduced Matrix. N	/S=Mas	ked Sand	d Grains	2	Location:	PL=Pore Li	nina. M=Matr	ix.
Hvdric Soil	Indicators:							ndicators	for Proble	matic Hvdric	Soils ³ :
Histosol	(A1)		Sandv Gle	ved Mat	rix (S4)			Coast	Prairie Redo	ox (A16)	
Histic Er	ipedon (A2)		Sandy Rec	lox (S5)	(-)		_	Iron-N	langanese M	lasses (F12)	
Black Hi	stic (A3)		Stripped M	latrix (Sé	5)		_	Red P	arent Materi	al (F21)	
Hvdroge	n Sulfide (A4)		Dark Surfa	ce (S7)	,		_	Verv S	Shallow Dark	Surface (F2	2)
Stratified	Lavers (A5)		Loamy Mu	cky Mine	eral (F1)		_	 Other	(Explain in F	Remarks)	,
2 cm Mu	ck (A10)		Loamy Gle	eved Mat	rix (F2)		-		· ·	,	
Depleted	Below Dark Surface	(A11)	X Depleted M	/ atrix (F:	3)						
Thick Da	irk Surface (A12)	. ,	Redox Dar	k Surfac	e (F6)		3	Indicators	of hydrophy	tic vegetatio	n and
Sandy M	ucky Mineral (S1)		Depleted D	Dark Surf	face (F7)	1		wetlar	nd hydrology	must be pres	sent,
5 cm Mu	cky Peat or Peat (S3)	? Redox Dep	pression	s (F8)			unless	s disturbed o	r problematic).
Restrictive	Laver (if observed):										
Type:											
Depth (ir	nches):		—				Hydric Soil	Present	?	Yes X	No
Remarks							-				
This data for	m is revised from Mid	dwest Regio	onal Supplement \	/ersion 2	2.0 to inc	lude the	NRCS Field	Indicators	of Hydric Sc	oils. Version 7	7.0, 2015
Errata. (http:	//www.nrcs.usda.gov	/Internet/FS	E_DOCUMENTS	/nrcs142	2p2_0512	293.doc	x)		,		
HYDROLO	GY										
Wetland Hy	drology Indicators:										
Primary India	ators (minimum of o	ne is reauire	ed: check all that a	apply)			S	Secondary	/ Indicators (minimum of	wo required)
Surface	Water (A1)		Water-Stai	ined Lea	ves (B9)			Surfac	e Soil Crack	(B6)	
High Wa	ter Table (A2)		Aquatic Fa	una (B1	3)		_	Draina	ige Patterns	(B10)	
Saturatio	on (A3)		True Aqua	tic Plant	s (B14)		_	Dry-Se	eason Water	Table (C2)	
Water M	arks (B1)		Hydrogen	Sulfide C	Ddor (C1)	-	Crayfi	sh Burrows (C8)	
Sedimer	t Deposits (B2)		Oxidized R	Rhizosph	eres on l	_iving R	oots (C3)	Satura	ation Visible	on Aerial Ima	igery (C9)
Drift Dep	osits (B3)		Presence of	of Reduc	ed Iron ((C4)		Stunte	ed or Stresse	d Plants (D1)
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soi	ls (C6)	Geom	orphic Positi	on (D2)	
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		_	FAC-N	Neutral Test	(D5)	
Inundatio	on Visible on Aerial Ir	nagery (B7)) Gauge or \	Nell Dat	a (D9)						
Sparsely	Vegetated Concave	Surface (Ba	8)Other (Exp	lain in R	emarks)						
Field Obser	vations:										
Surface Wat	er Present? Ye	s	No X	Depth (ii	nches):						
Water Table	Present? Ye	s	No X	Depth (i	nches):						
Saturation P	resent? Ye	s	No X	Depth (ii	nches):		Wetland	Hydrolog	y Present?	Yes	No X
(includes cap	oillary fringe)				_						
Describe Re	corded Data (stream	gauge, mor	nitoring well, aeria	l photos	, previou	s inspec	ctions), if avail	able:			
Remarks:											
No hydrology	observed.										

Project/Site: Clover \	Valley Road 515- Acre Site	City/County: New Alb	any/ Licking	Sampling Date:	04/13/2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	UPJ-1
Investigator(s): Bryan	Lombard, EMH&T	Section, Township, Rar	nge: <u>T. 2 N; R. 15 W</u>		
Landform (hillside, te	errace, etc.): farm field	Local relief (c	oncave, convex, none):	convex	
Slope (%): 3	Lat: 40.103056°	Long: -82.733234°		Datum:	
Soil Map Unit Name:	pewamo silty clay loam (Pe)		NWI classi	fication: None	
Are climatic / hydrolo	gic conditions on the site typical for t	this time of year? Yes X	No (If no, ex	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysig	nificantly disturbed? Are "Normal C	ircumstances" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrology nat	urally problematic? (If needed, exp	olain any answers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach site map	showing sampling point lo	cations, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes _X Yes	No X No No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:					

			Absolute	Dominant	Indicator			
Tree Stratum	(Plot size:	_) _	% Cover	Species?	Status	Dominance Test worksheet:		
1						Number of Dominant Species That		
2.						Are OBL, FACW, or FAC:	0	(A)
3.						Total Number of Dominant Species		
4.						Across All Strata:	1	(B)
5.						Percent of Dominant Species That		_
				=Total Cover		Are OBL, FACW, or FAC:	0.0%	(A/B)
Sapling/Shrub Strat	um (Plot size:)				-		-
1.						Prevalence Index worksheet:		
2.						Total % Cover of: Mu	Itiply by:	
3.						OBL species 0 x 1 =	0	-
4.						FACW species 0 x 2 =	0	-
5.						FAC species 0 x 3 =	0	-
				=Total Cover		FACU species 0 x 4 =	0	-
Herb Stratum	(Plot size:) –				UPL species 100 x 5 =	500	-
1. Zea mays		_^	100	Yes	UPL	Column Totals 100 (A)	500	- (B)
2.						Prevalence Index = B/A =	5.00	_``
3.								-
4.						Hydrophytic Vegetation Indicators	i:	
5.						1 - Rapid Test for Hydrophytic V	egetation	
6.						2 - Dominance Test is >50%	-3	
7						3 - Prevalence Index is < 3.01		
8						4 - Morphological Adaptations ¹	Provide su	oportina
9						data in Remarks or on a sepa	rate sheet)	
10						Problematic Hydrophytic Vegeta	, ition ¹ (Expl	ain)
			100	=Total Cover				
Woody Vine Stratur	<u>n</u> (Plot size:)	100			be present, unless disturbed or prob	l nydrology Iematic.	must
1.						Hydrophytic		
2.						Vegetation		
				=Total Cover		Present? Yes No	x	
Remarks: (Include	photo numbers here or on	a separat	e sheet.)					
Fallow Corn Field		•	.,					

			Redo	x realui						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-12	10YR 3/2	90	10YR 5/4	10	_C_	M	Loamy/Clayey	Distinct	redox concen	trations
Type: C=C	oncentration, D=Depl	etion, RM=	-Reduced Matrix, N	/S=Mas	ked Sand	d Grains	² Locatior	n: PL=Pore Lin	ning, M=Matri	K .
lydric Soil	Indicators:						Indicato	rs for Probler	natic Hydric	Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coa	st Prairie Redo	x (A16)	
Histic Ep	oipedon (A2)		Sandy Rec	lox (S5)			Iron-	Manganese M	lasses (F12)	
Black Hi	stic (A3)		Stripped M	latrix (S6	5)		Red	Parent Materia	al (F21)	
Hydroge	n Sulfide (A4)		Dark Surfa	ice (S7)			Very	Shallow Dark	Surface (F22)
Stratified	I Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	er (Explain in R	lemarks)	
2 cm Mu	ick (A10)		Loamy Gle	yed Mat	rix (F2)					
Depleted	Below Dark Surface	(A11)	Depleted N	/latrix (F	3)		2	_		
Thick Da	ark Surface (A12)		X Redox Dar	k Surfac	æ (F6)		°Indicato	rs of hydrophy	tic vegetation	and
Sandy M	lucky Mineral (S1)	_	Depleted D)ark Sur	face (F7))	wetla	and hydrology	must be pres	ent,
5 cm Mu	icky Peat or Peat (S3)	Redox Dep	pression	s (F8)		unle	ss disturbed o	r problematic.	
Restrictive	Layer (if observed):									
Type:	L ayer (if observed) : N/A									
Restrictive I Type: Depth (ir Remarks: This data for Errata. (http:	Layer (if observed): N/A nches): m is revised from Mic //www.nrcs.usda.gov/	lwest Regi /Internet/Fs	onal Supplement V SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Presen NRCS Field Indicator	t? s of Hydric So	Yes X	No 0, 2015
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http:	Layer (if observed): N/A nches): m is revised from Mic //www.nrcs.usda.gov/	lwest Regi Internet/F	onal Supplement V SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Presen NRCS Field Indicator	t? 's of Hydric So	Yes X	No 0, 2015
Restrictive I Type: Depth (ir Remarks: This data for Frrata. (http: YDROLO	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov/	west Regi 'Internet/F	ional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Presen	t? s of Hydric So	Yes X	No 0, 2015
Restrictive I Type: _ Depth (ir Remarks: This data for Frrata. (http: YDROLO	Layer (if observed): N/A nches): m is revised from Mic //www.nrcs.usda.gov/ OGY drology Indicators:	Jwest Regi (Internet/F	ional Supplement \ SE_DOCUMENTS,	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Presen	t? rs of Hydric So	Yes X	No 0, 2015
Restrictive I Type: Depth (ir Remarks: This data for Frrata. (http: YDROLO Vetland Hy Primary India	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or	twest Regi /Internet/F	ional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142 	2.0 to inc 2p2_0512	lude the 293.docx	Hydric Soil Presen	t? s of Hydric So	Yes X	No 0, 2015
Lestrictive I Type: _ Depth (ir Remarks: his data for rirrata. (http: YDROLC Yetland Hyn Primary India Surface	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or Water (A1)	twest Regi /Internet/F: 	ional Supplement \ SE_DOCUMENTS <u>red; check all that a</u> Water-Stai	/ersion 2 /nrcs142 apply) ined Lea	2.0 to inc p2_0512	lude the	Hydric Soil Presen	t? s of Hydric So ry Indicators (r ace Soil Crack	Yes X ils, Version 7. minimum of two is (B6)	No 0, 2015
Restrictive I Type: Depth (ir Remarks: 'his data for rrata. (http: YDROLC YUROLC Vetland Hy Primary India Surface High Wa High Wa	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of or Water (A1) tter Table (A2)	Jwest Regi /Internet/F: <u>ne is requi</u>	ional Supplement \ SE_DOCUMENTS <u>red; check all that a</u> Water-Stai Quatic Fa	/ersion 2 /nrcs142 apply) ined Lea iuna (B1	2.0 to inc 2p2_0512 ves (B9) 3)	lude the 293.docx	Hydric Soil Presen	t? s of Hydric So ry Indicators (r ace Soil Crack nage Patterns	Yes X ils, Version 7. <u>minimum of tv</u> s (B6) (B10)	No 0, 2015 vo require
estrictive I Type: _ Depth (ir Remarks: his data for rirrata. (http: YDROLO Yetland Hyn Yrimary India Surface High Wa Saturatio	Layer (if observed): N/A N/A nches): m is revised from Mic //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or Water (A1) tter Table (A2) on (A3)	twest Regi /Internet/F	red; check all that a Water-Stai	/ersion 2 /nrcs142 apply) ined Lea una (B1 tic Plant	2.0 to inc 2p2_0512 ves (B9) 3) s (B14)	lude the 293.docx	Hydric Soil Presen	t? s of Hydric So ry Indicators (i ace Soil Crack nage Patterns Season Water	Yes X iils, Version 7. minimum of tw s (B6) (B10) Table (C2)	No 0, 2015 vo require
Restrictive I Type: Depth (ir Remarks: This data for Frrata. (http: YDROLO Yetland Hy Primary India Surface High Wa Saturatic Water M	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) the Description (B2)	twest Regi /Internet/F: 	red; check all that a Water-Stai Aquatic Fa	/ersion 2 /nrcs142 apply) ined Lea iuna (B1 tic Plant Sulfide C	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Ddor (C1	Jude the 293.docx	Hydric Soil Presen	t? rs of Hydric So ry Indicators (i ace Soil Crack nage Patterns Season Water fish Burrows (i	Yes X iils, Version 7. minimum of tw s (B6) (B10) Table (C2) C8)	No 0, 2015
Lestrictive I Type: _ Depth (ir Remarks: his data for rirrata. (http: YDROLC Yetland Hyp Primary India Surface High Wa Saturatic Water M Sedimer	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) arks (B1) nt Deposits (B2) market (B2)	twest Regi /Internet/F	ional Supplement \ SE_DOCUMENTS red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R	/ersion 2 /nrcs142 apply) ined Lea iuna (B1 tic Plant: Sulfide (thizosph	2.0 to inc p2_0512 ves (B9) 3) s (B14) Ddor (C1 eres on l	Jude the 293.docx	Hydric Soil Presen	t? s of Hydric So ry Indicators (r ace Soil Crack nage Patterns Season Water fish Burrows (r ration Visible o	Yes X ills, Version 7. minimum of two is (B6) (B10) Table (C2) C8) on Aerial Imag	<u>No</u> 0, 2015 <u>vo requin</u> gery (C9)
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Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http: Primary India Surface High Wa Saturatic Water M Saturatic Water M Sedimer Drift Dep Algal Ma	A procession of the second sec	iwest Regi /Internet/F	ional Supplement \ SE_DOCUMENTS red; check all that a Water-Stai Aquatic Fa True Aquai Hydrogen S Oxidized R Presence o Recent Iro	/ersion 2 /nrcs142 apply) ined Lea una (B1 tic Plant: Sulfide (thizosph of Reduc n Reduc Sulface	2.0 to inc p2_0512 vves (B9) 3) s (B14) Odor (C1 eres on l ced Iron (tion in Ti ((C7)	lude the 293.docx	Hydric Soil Presen	t? s of Hydric So ry Indicators (i ace Soil Crack hage Patterns Season Water fish Burrows (i ration Visible of ted or Stresse morphic Positi	Yes X iils, Version 7. minimum of tw s (B6) (B10) Table (C2) C8) on Aerial Imag d Plants (D1) on (D2)	No 0, 2015 vo require
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Restrictive I Type: Depth (ir Remarks: his data for rrrata. (http: YDROLO YDROLO Yetland Hy Primary India Saturatic Water M Saturatic Water M Saturatic Algal Ma Iron Dep Inundatic Snareely	A service of the served is the service of the servi	twest Regi /Internet/F: <u>ne is requin</u> nagery (B7	ional Supplement \ SE_DOCUMENTS <u>red; check all that a</u> Water-Stai Aquatic Fa True Aquai True Aquai Qxidized R Presence o Recent Irou Thin Muck	/ersion 2 /nrcs142 apply) ined Lea iuna (B1 tic Plant: Sulfide C thizosph of Reduc n Reduc Sulface Vell Dat:	2.0 to inc 2p2_0512 yes (B9) 3) s (B14) Ddor (C1 eres on l cet inn fi (C7) a (D9)) Living Ro (C4)	Hydric Soil Presen NRCS Field Indicator NRCS Field Indicator Suffa Drain Dry- Cray pots (C3) Stun s (C6) FAC	t? s of Hydric So ry Indicators (r ace Soil Crack hage Patterns Season Water fish Burrows (r ration Visible of ted or Stresse morphic Positi -Neutral Test (Yes X iils, Version 7. minimum of tw s (B6) (B10) Table (C2) C8) on Aerial Imag d Plants (D1) on (D2) (D5)	No 0, 2015 vo requin
Restrictive I Type: _ Depth (ir Remarks: This data for Firrata. (http: YDROLO Yetland Hyp Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In / Vegetated Concave	hwest Regi /Internet/F: <u>ne is requir</u> nagery (B7 Surface (E	red; check all that a Water-Stai Aquatic Fa True Aquai Hydrogen S Oxidized R Presence o Recent Iro Thin Muck) Gauge or V 8) Other (Exp	/ersion 2 /nrcs142 apply) ined Lea iuna (B1 tic Plant: Sulfide (C thizosph of Reduc n Reduc Sulface Nell Dat lain in R	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Ddor (C1 eres on l ced Iron (tion in Ti (C7) a (D9) temarks)) Living Ro (C4) illed Soil	Hydric Soil Presen	t? s of Hydric So ry Indicators (ace Soil Crack hage Patterns Season Water fish Burrows (ration Visible of ted or Stresse morphic Positi -Neutral Test (Yes X ills, Version 7. ills, Version 7.	No 0, 2015 vo require
Restrictive I Type: Depth (ir Remarks: This data for Frrata. (http: Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	A service of the served is not service of the servi	iwest Regi /Internet/F: 	ional Supplement \ SE_DOCUMENTS red; check all that a Water-Stai Aquatic Fa True Aquai Hydrogen S Oxidized R Presence of Recent Iron Thin Muck) Gauge or \ B) Other (Exp	/ersion 2 /nrcs142 apply) ined Lea iuna (B1 tic Plant Sulfide C thizosph of Reduc n Reduc Sulfide C thizosph of Reduc surface Well Dat ilain in R	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Ddor (C1 eres on l ced Iron (tion in Ti (C7) a (D9) temarks)) Living Rd (C4) illed Soil:	Hydric Soil Presen	t? s of Hydric So ry Indicators (ace Soil Crack hage Patterns Season Water fish Burrows (ration Visible of ted or Stresse morphic Positi -Neutral Test (Yes X iils, Version 7. minimum of tw s (B6) (B10) Table (C2) C8) on Aerial Imag d Plants (D1) on (D2) (D5)	No 0, 2015 vo require
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Restrictive I Type: Depth (ir Remarks: This data for Firrata. (http: Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wate	A service of the served is the service of the servi	twest Regi /Internet/F: 	ional Supplement \ SE_DOCUMENTS 	/ersion 2 /nrcs142 apply) ined Lea iuna (B1 tic Plant: Sulfide (C thizosph of Reduc n Reduc Sulface Well Dat vlain in R Depth (in Depth (in	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Odor (C1 eres on l ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) illed Soil	Hydric Soil Presen	t? s of Hydric So ry Indicators (i ace Soil Crack hage Patterns Season Water fish Burrows (i ration Visible o ted or Stresse morphic Positi -Neutral Test (Yes X ils, Version 7. minimum of tw is (B6) (B10) Table (C2) C8) on Aerial Imag d Plants (D1) on (D2) (D5)	No 0, 2015 vo require gery (C9)
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Restrictive I Type: Depth (ir Remarks: This data for Firata. (http: YDROLO Yetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Surface Wat Yater Table Saturation P includes cap Describe Re	Layer (if observed): N/A N/A N/A nches):	hagery (B7 Surface (E) gauge, mc	ional Supplement \ SE_DOCUMENTS red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence o Recent Irou Thin Muck ') Gauge or \ 38) Other (Exp No X No X No X No X I Initoring well, aeria	/ersion 2 /nrcs142 apply) ined Lea uuna (B1 tic Plant: Sulfide C thizosph of Reduc n Reduc Surface Well Dat klain in R Depth (ii Depth (ii Depth (ii Depth (ii Depth (ii	2.0 to inc 2.0 to inc 2.0 to inc 2.0 to inc 2.0 to inc 2.0 to inc 3) s (B14) Odor (C1 eres on l ced Iron (tion in Ti (C7) a (D9) temarks): 	lude the 293.doc>) Living Rd (C4) illed Soil:	Hydric Soil Presen NRCS Field Indicator NRCS Field Indicator Seconda Surfa Drain Dry- Cray Doots (C3) Stun Hydrolo Wetland Hydrolo tions), if available:	t? s of Hydric So ry Indicators (i ace Soil Crack hage Patterns Season Water fish Burrows (i ration Visible of ted or Stresse morphic Positi -Neutral Test (gy Present?	Yes X iils, Version 7. minimum of tw s (B6) (B10) Table (C2) C8) on Aerial Imag d Plants (D1) on (D2) (D5) Yes	No 0, 2015 vo require gery (C9)

Project/Site: Clover V	/alley Road 5	City/Co	ounty: New Albany/	Licking		Sampling Date:	4-14-2022		
Applicant/Owner:	The New Alb	any Company				_State:_	ОН	Sampling Point:	U-K-1
Investigator(s): Eric N	lagy, EMH&T			Section,	, Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, te	rrace, etc.): t	errace			Local relief (conca	ve, conv	ex, none):	none	
Slope (%):	Lat: 40.101	298°		Long:	-82.722499°			Datum:	
Soil Map Unit Name:	Bennington s	silt loam (BeB)				N	IWI classi	ification: NA	
Are climatic / hydrolo	gic conditions	s on the site typ	ical for this time of	year?	Yes <u>X</u> Nc	»	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil,	or Hydrology_	significantly di	isturbed?	Are "Normal Circun	nstances	" present?	? Yes X No	o
Are Vegetation	, Soil,	or Hydrology_	naturally prob	lematic?	(If needed, explain	any ansv	vers in Re	•marks.)	
SUMMARY OF F		- Attach site	e map showing	g sampli	ing point locati	ons, tra	ansects	, important fea	tures, etc.
Hydrophytic Vegeta	tion Present?	Yes	No_X_	ls th	ne Sampled Area				
Hydric Soil Present?	?	Yes X	No	with	nin a Wetland?	Y	/es	<u>No_X</u>	
Wetland Hydrology	Present?	Yes	No <u>X</u>						
Remarks:									

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Fagus grandifolia	70	Yes	FACU	Number of Dominant Species That
2. Prunus serotina	20	Yes	FACU	Are OBL, FACW, or FAC:(A)
3. Quercus palustris	10	No	FACW	Total Number of Dominant Species
4				Across All Strata: <u>3</u> (B)
5		·		Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15')				
1. Lindera benzoin	5	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 15 x 2 = 30
5.				FAC species 0 x 3 = 0
	5	=Total Cover		FACU species 90 x 4 = 360
Herb Stratum (Plot size: 5')				UPL species $0 \times 5 = 0$
1. <u> </u>				Column Totals 105 (A) 390 (B)
2.				Prevalence Index = B/A = 3.71
3.				
4.		·		Hydrophytic Vegetation Indicators:
5.		·		1 - Rapid Test for Hydrophytic Vegetation
6.		·		2 - Dominance Test is >50%
7.				$3 - Prevalence Index is \leq 3.0^1$
8.				4 - Morphological Adaptations ¹ (Provide supporting
9				data in Remarks or on a separate sheet)
10		·		Problematic Hydrophytic Vegetation ¹ (Explain)
		=Total Cover		
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
<u> </u>				
2.				Hydrophytic
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separate	ate sheet.)			

Profile Desc	cription: (Describe	to the dept	h needed to doc	ument ti	he indica	ator or o	confirm the absence	of indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/2	100					Loamy/Clavey	
4-10		70	 10YR 7/6	30	<u>с</u>	м	Loamv/Clavev	Prominent redox concentrations
<u> </u>							Loamy, only by	
¹ Type: C=C	oncentration, D=Dep	etion, RM=	Reduced Matrix, M	MS=Mas	ked Sand	d Grains	s. ² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicato	rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coa	st Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy Red	dox (S5)			Iron-	Manganese Masses (F12)
Black Hi	stic (A3)		Stripped N	latrix (Se	3)		Red	Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Othe	er (Explain in Remarks)
2 cm Mu	ıck (A10)		Loamy Gle	eyed Mat	trix (F2)			
Depleted	d Below Dark Surface	(A11)	X Depleted	Matrix (F	3)			
Thick Da	ark Surface (A12)		Redox Dar	rk Surfac	æ (F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted [Dark Sur	face (F7)	1	wetla	and hydrology must be present,
5 cm Mu	icky Peat or Peat (S3)	? Redox Der	pression	s (F8)		unle	ss disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:								
Depth (ir	nches):						Hydric Soil Presen	t? Yes <u>X</u> No
Remarks:								
This data for	m is revised from Mi	dwest Regio	onal Supplement V	Version 2	2.0 to inc	lude the	NRCS Field Indicator	rs of Hydric Soils, Version 7.0, 2015
Errata. (http:	//www.nrcs.usda.gov	/Internet/FS	SE_DOCUMENTS	/nrcs142	2p2_0512	293.doc	x)	
HYDROLO)GY							
Wetland Hy	drology Indicators:							
Primary Indi	cators (minimum of o	ne is requir	ed; check all that	apply)			Seconda	ry Indicators (minimum of two required
Surface	Water (A1)		Water-Sta	ined Lea	ves (B9)		Surf	ace Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic Fa	auna (B1	3)		Drai	nage Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plant	s (B14)		 Dry-	Season Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide (Ddor (C1)	Cray	fish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosph	eres on l	_iving R	oots (C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Reduc	ed Iron ((C4)	Stur	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soi	ls (C6) Geo	morphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC	-Neutral Test (D5)
Inundatio	on Visible on Aerial Ir	nagery (B7) Gauge or '	Well Dat	a (D9)			
? Sparsely	Vegetated Concave	Surface (B	8) Other (Exp	plain in R	lemarks)			
Field Obser	vations:							
Surface Wat	er Present? Ye	S	No X	Depth (i	nches):			
Water Table	Present? Ye	s	No X	Depth (i	nches):			
Saturation P	resent? Ye	s	No X	Depth (i	nches):		Wetland Hydrolo	gy Present? Yes No X
(includes ca	pillary fringe)				_			
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previou	s inspec	ctions), if available:	
Remarks:								

Project/Site: Clover \	/alley Road 515- Acre Site	City/County: New Albany/	Sampling Date:	04/14/2022	
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	UPL-1
Investigator(s): Bryan	Lombard, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	rrace, etc.): woods	Local relief (conca	ive, convex, none):	convex	
Slope (%): 7	Lat: 40.100944°	Long: -82.723163°		Datum:	
Soil Map Unit Name:	bennington (BeB)		NWI classi	fication: None	
Are climatic / hydrolo	gic conditions on the site typical for this time of yea	ar? Yes <u>X</u> No	o (If no, exp	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circur	mstances" present?	? Yes <u>X</u> No	·
Are Vegetation	, Soil, or Hydrologynaturally problem	atic? (If needed, explain	any answers in Re	emarks.)	
SUMMARY OF F	FINDINGS – Attach site map showing s	ampling point locati	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No No X	Is the Sampled Area within a Wetland?	Yes	No_X
Remarks:					

			Absolute	Dominant	Indicator					
Tree Stratum	(Plot size:	_)	% Cover	Species?	Status	Dominance Test	t worksh	eet:		
1. Gleditsia triaca	nthos		70	Yes	FACU	Number of Domi	nant Spec	cies That		
2.						Are OBL, FACW	, or FAC:		1	(A)
3.						Total Number of	Dominan	t Species		_
4.						Across All Strata	:		3	_(B)
5						Percent of Domir	nant Spec	ies That		
			70	=Total Cover		Are OBL, FACW	, or FAC:		33.3%	(A/B)
Sapling/Shrub Stra	itum (Plot size:)							-
1. Rosa multiflora			10	Yes	FACW	Prevalence Inde	x worksl	heet:		
2. Lindera benzoir	n				FACW	Total % Cov	er of:	Mu	Itiply by:	
3.						OBL species	0	x 1 =	0	-
4.						FACW species	10	x2=	20	-
5.						FAC species	0	 x3=	0	-
			10	=Total Cover		FACU species	85	 x4=	340	-
Herb Stratum	(Plot size:)				UPL species	0	 x5=	0	-
1. Geranium macu	ulatum		15	Yes	FACU	Column Totals	95	 (A)	360	- (B)
2.						Prevalence Ind	dex = B//	<u> </u>	3.79	_ ` `
3.										-
4.						Hvdrophvtic Veg	etation	Indicators	i:	
5.						1 - Rapid Te	st for Hvd	Irophytic V	egetation	
6.						2 - Dominano	ce Test is	s >50%	U	
7.						3 - Prevalenc	ce Index i	s ≤3.0 ¹		
8						4 - Morpholo	aical Ada	ptations ¹ (Provide su	pporting
9						data in Re	marks or	on a sepa	rate sheet)
10.						Problematic	Hvdrophy	tic Vegeta	tion ¹ (Expl	ain)
			15	=Total Cover		¹ Indicators of by:	trio coil ou		, . I bydrology	muet
Woody Vine Stratu	m (Plot size:)			be present, unles	s disturb	ed or prob	lematic.	must
1.	·					Hudronhutic				
2.						Vegetation				
				=Total Cover		Present?	Yes	No	x	
Remarks: (Include	e photo numbers here or or	n a sepai	rate sheet.)			L				

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-12	10YR 3/2	90	10YR 5/4	10	<u> </u>	м	Loamv/Clavev	Distinct	t redox concer	trations
		·								
		·								
¹ Type: C=C	oncentration D=Depl	etion RM		 MS=Mas	ked San	d Grains	² l ocat	on: PI =Pore Li	ining M=Matri	Y
Hvdric Soil	Indicators:						Indica	tors for Proble	matic Hvdric	Soils ³ :
Histosol	(A1)		Sandy Gle	ved Mat	rix (S4)		Co	ast Prairie Red	ox (A16)	
Histic Er	pipedon (A2)		Sandy Re	dox (S5)			Irc	n-Manganese N	Aasses (F12)	
Black Hi	stic (A3)		Stripped M	latrix (Se	5)			d Parent Mater	ial (F21)	
	n Sulfide (A4)		Dark Surfa	ace (S7)	-,			ry Shallow Dark	Surface (F22	۱
Stratified	Lavers (A5)		Loamy Mu	icky Mine	eral (F1)		Ot	her (Explain in F	Remarks)	,
2 cm Mi	ick (A10)		L oamy Gle	eved Mat	rix (F2)					
Depleter	d Below Dark Surface	(A11)	Depleted M	Matrix (F	3)					
Thick Da	ark Surface (A12)	,	X Redox Da	rk Surfac	-, :e (F6)		³ Indica	tors of hydrophy	vtic vegetation	and
Sandy M	lucky Mineral (S1)		Depleted [Dark Sur	face (F7))	We	tland hydrology	must be pres	ent.
5 cm ML	icky Peat or Peat (S3)	Redox Der	pression	s (F8)	,	un	less disturbed o	problematic.	,
					- (-)		_			
Restrictive	l aver (if observed)									
Type:	Layer (if observed):									
Restrictive Type: Depth (ii	Layer (if observed): N/A						Hydric Soil Pres	ant?	Yes X	No
Restrictive Type: Depth (in Remarks: This data for	Layer (if observed): N/A nches): m is revised from Mid	lwest Reg	jional Supplement \	Version 2	2.0 to inc	lude the	Hydric Soil Press	ent? ors of Hydric So	Yes X	No 0, 2015
Restrictive Type: Depth (in Remarks: This data for Errata. (http:	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov/	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS	Version 2 S/nrcs142	2.0 to inc 2p2_0512	lude the 293.doc)	Hydric Soil Pres NRCS Field Indica	ent? ors of Hydric Se	Yes X	No 0, 2015
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLO	Layer (if observed): N/A nches): m is revised from Mic //www.nrcs.usda.gov	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 5/nrcs142	2.0 to inc 2p2_0512	lude the 293.doc)	Hydric Soil Pres NRCS Field Indica	ent? ors of Hydric So	Yes X	No 0, 2015
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLO Wetland Hy	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators:	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 i/nrcs142	2.0 to inc 2p2_0512	lude the 293.doc)	Hydric Soil Pres	ent? cors of Hydric So	Yes X	No 0, 2015
Restrictive Type: Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of o	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS	/ersion 2 i/nrcs142 apply)	2.0 to inc 2p2_0512	lude the	Hydric Soll Press	ent? cors of Hydric Se	Yes X	No 0, 2015 vo required)
Restrictive Type: Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of o Water (A1)	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that	/ersion 2 /nrcs142 apply) ined Lea	2.0 to inc 2p2_0512	lude the 293.doc	Hydric Soil Press	ent? Fors of Hydric So dary Indicators (Inface Soil Crack	Yes X oils, Version 7 (minimum of two ks (B6)	No 0, 2015 vo required)
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of o Water (A1) tter Table (A2)	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that Water-Sta Aquatic Fa	/ersion 2 s/nrcs142 apply) ined Lea auna (B1	2.0 to inc 2p2_0512 wes (B9) 3)	lude the 293.docx	Hydric Soil Press	ent? cors of Hydric So dary Indicators of rface Soil Crack ainage Patterns	Yes X oils, Version 7 (<u>minimum of t</u> ks (B6) ; (B10)	No 0, 2015 vo required)
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3)	Jwest Reg /Internet/F	ired; check all that	/ersion 2 s/nrcs142 apply) ined Lea auna (B1 tic Plant	2.0 to inc 2p2_0512 ives (B9) 3) s (B14)	lude the 293.doc	Hydric Soil Press	ent? cors of Hydric So dary Indicators of rface Soil Cract ainage Patterns y-Season Wate	Yes X oils, Version 7 (minimum of tw ks (B6) ; (B10) r Table (C2)	No 0, 2015 vo required)
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M	Layer (if observed): N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of o Water (A1) nter Table (A2) on (A3) larks (B1) the previet (P0)	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that Water-Sta Aquatic Fa True Aqua True Aqua	/ersion 2 s/nrcs142 apply) ined Lea auna (B1 ttic Plant Sulfide (2.0 to inc 2p2_0512 ives (B9) 3) s (B14) Odor (C1)	Hydric Soil Press	ent? cors of Hydric So dary Indicators (rface Soil Crack ainage Patterns y-Season Wate ayfish Burrows	Yes X oils, Version 7 (<u>minimum of t</u> x ks (B6) ; (B10) r Table (C2) (C8)	No 0, 2015 vo required)
Restrictive Type: Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of o Water (A1) nter Table (A2) on (A3) larks (B1) nt Deposits (B2) marika (B2)	Jwest Reg /Internet/F	ired; check all that Water-Sta Aquatic Fa Urue Aqua Urue Aqua	/ersion 2 i/nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	2.0 to inc 2p2_0512 wes (B9) 3) s (B14) Odor (C1 eres on 1	Jude the 293.doc	Hydric Soil Press	ent? cors of Hydric So dary Indicators (inface Soil Crack ainage Patterns y-Season Wate ayfish Burrows (turation Visible)	Yes X oils, Version 7 (minimum of to ks (B6) ; (B10) r Table (C2) (C8) on Aerial Imag	No 0, 2015 vo required) gery (C9)
Restrictive Type: Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of o Water (A1) nter Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) th or Caust (B4)	Jwest Reg /Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa	/ersion 2 s/nrcs142 ined Lea auna (B1 sulfide (Rhizosph of Reduce	2.0 to inc 2p2_0512 vves (B9) 3) s (B14) Ddor (C1 eres on l ced Iron) Living Rr (C4)	Hydric Soil Press	ent? Fors of Hydric So dary Indicators of Inface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse	Yes X oils, Version 7 (minimum of two ks (B6) 5 (B10) r Table (C2) (C8) on Aerial Imag ed Plants (D1)	No 0, 2015 vo required) gery (C9)
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of o Water (A1) tter Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	Jwest Reg /Internet/F	ired; check all that i Water-Sta Aquatic Fa Documents Water-Sta Aquatic Fa Drue Aqua Hydrogen Oxidized F Presence Recent Iro	/ersion 2 s/nrcs142 apply) ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc on Reduc	2.0 to inc 2p2_0512 2	lude the 293.docx	Hydric Soil Press	ent? cors of Hydric So dary Indicators of rface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse comorphic Posit	Yes X oils, Version 7 (minimum of tu ks (B6) ; (B10) r Table (C2) (C8) on Aerial Imag ed Plants (D1) ion (D2)	No 0, 2015 vo required) gery (C9)
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	Layer (if observed): N/A N/A N/A nches):	Jwest Reg /Internet/F	ired; check all that Water-Sta Aquatic Fa Aquatic Fa DOCUMENTS Water-Sta Aquatic Fa Aquatic Fa Presence Recent Iro Course or Course or Course	/ersion 2 s/nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface	2.0 to inc 2p2_0512 ives (B9) 3) s (B14) Odor (C1 eres on ced Iron tition in Ti (C7)	lude the 293.doc) Living Ri (C4)	Hydric Soil Press NRCS Field Indica () Secon Structure Dr Dr Dr Cr Dots (C3) Structure s (C6) EFA	ent? cors of Hydric Se dary Indicators of rface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse comorphic Posit C-Neutral Test	Yes X oils, Version 7 (minimum of two ks (B6) c (B10) r Table (C2) (C8) on Aerial Imaged Plants (D1) ion (D2) (D5)	No 0, 2015 vo required) gery (C9)
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of o Water (A1) net Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In (Vagetated Concerne	nagery (B	ired; check all that Water-Sta Aquatic Fa DOCUMENTS Water-Sta Aquatic Fa Drue Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 Pa	/ersion 2 s/nrcs142 inrcs142 ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat	2.0 to inc 2p2_0512 ives (B9) 3) s (B14) Odor (C1 eres on l ced Iron tion in Ti c(C7) a (D9)	lude the 293.doc) Living Ri (C4) illed Soil	Hydric Soil Press	ent? cors of Hydric So dary Indicators of rface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse comorphic Posit C-Neutral Test	Yes X oils, Version 7 (minimum of tx ks (B6) c (B10) r Table (C2) (C8) on Aerial Imag of Plants (D1) ion (D2) (D5)	No 0, 2015 vo required) gery (C9)
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Restrictive Type: Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wate Water Table Saturation P	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of o Water (A1) net Table (A2) on (A3) larks (B1) nt Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial In / Vegetated Concave vations: ter Present? Yes present? Yes pillary (frince)	nagery (B Surface (i 3 3	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp No X No X No X	/ersion 2 i/nrcs142 i/nrcs142 ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Sulfice (Sulfide (Rhizosph of Reduc n Reduc Sulfide (Depth (i Depth (i	2.0 to inc 2p2_0512 ves (B9) 3) s (B14) Odor (C1 eres on 1 ced Iron 1 tion in T1 (C7) a (D9) emarks): nches): _ nches): _) Living Ra (C4) illed Soil	Hydric Soil Press	ent? cors of Hydric So dary Indicators (inface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse comorphic Posit C-Neutral Test	Yes X oils, Version 7 (minimum of tr ks (B6) (B10) r Table (C2) (C8) on Aerial Imaged Plants (D1) ion (D2) (D5) Yes	No 0, 2015 vo required) gery (C9)
Restrictive Type: Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca Describe Po	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of o Water (A1) nter Table (A2) on (A3) larks (B1) nt Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial In / Vegetated Concave vations: ter Present? Present? Yes pillary fringe) corried Data (stream	nagery (B' Surface (I 3 3 3 3	ired; check all that ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or N B8) Other (Exp No X No X No X No X	/ersion 2 s/nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc s Surface Well Dato Depth (i Depth (i Depth (i	2.0 to inc 2p2_0512 2p2_0512 2 2005 2005 2005 2005 2005 2005 200) Living Rd (C4) illed Soil	Hydric Soil Press	ent? cors of Hydric So dary Indicators of rface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse comorphic Posit C-Neutral Test	Yes X oils, Version 7 (minimum of two ks (B6) ; (B10) r Table (C2) (C8) on Aerial Imaged Plants (D1) ion (D2) (D5) Yes	No 0, 2015 vo required) gery (C9)
Restrictive Type: Depth (in Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wate Vater Table Saturation P (includes ca Describe Re	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of o Water (A1) Iter Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In / Vegetated Concave vations: ter Present? Present? Yes pillary fringe) corded Data (stream	nagery (B' Surface (I 3 3 gauge, m	ired; check all that i SE_DOCUMENTS Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence f Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp No X No X	/ersion 2 s/nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (R hizosph of Reduc n Reduc s Surface Well Dat blain in R Depth (i Depth (i Depth (i al photos	2.0 to inc 2p2_0512 2p2_0512 2p2_0512 2p2_0512 2p2_0512 2p2_0512 3) s (B14) 2dor (C1 eres on l ced Iron of tion in Tio ced Iron of tion of tio tion of tio tio tion of tio tion of tio tio tion of tio tio tio tion of tio tio tio tio tio tio tio tio tio tio	lude the 293.docx	Hydric Soil Press NRCS Field Indication NRCS Field Indication Secon Secon Strain Dr Dr Dr Strain Strain </td <td>ent? cors of Hydric Se dary Indicators of rface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse comorphic Posit C-Neutral Test</td> <td>Yes X oils, Version 7 (minimum of tx ks (B6) c (B10) r Table (C2) (C8) on Aerial Imag ed Plants (D1) ion (D2) (D5) Yes</td> <td>No 0, 2015 vo required) gery (C9)</td>	ent? cors of Hydric Se dary Indicators of rface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse comorphic Posit C-Neutral Test	Yes X oils, Version 7 (minimum of tx ks (B6) c (B10) r Table (C2) (C8) on Aerial Imag ed Plants (D1) ion (D2) (D5) Yes	No 0, 2015 vo required) gery (C9)
Restrictive Type: Depth (ii Remarks: This data for Errata. (http: HYDROLC Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	Layer (if observed): N/A N/A nches): m is revised from Mid //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) bosits (B3) at or Crust (B4) bosits (B5) on Visible on Aerial In / Vegetated Concave vations: ar Present? Present? Yes pillary fringe) corded Data (stream	nagery (B' Surface (I 3 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ired; check all that is ired; check all that is Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence of Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp No X No X No X No X No X No X No X	/ersion 2 s/nrcs142 inrcs142 ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc Sulfide (Rhizosph of Reduc on Reduc Sulfide (Sulface Well Dat blain in R Depth (i Depth (i Depth (i Depth (i Depth (i	2.0 to inc 2p2_0512 ives (B9) 3) s (B14) Odor (C1 eres on 1 ced Iron 1 ced Iron 1 (C7) a (D9) Remarks) nches): _ nches): _ nches): _	lude the 293.doc)	Hydric Soil Press NRCS Field Indica NRCS Field Indica Secon Secon Stransform Dr Dr Stransform	ent? cors of Hydric Se dary Indicators i inface Soil Crack ainage Patterns y-Season Wate ayfish Burrows turation Visible unted or Stresse comorphic Posit C-Neutral Test	Yes X oils, Version 7 (minimum of ts ks (B6) c (B10) r Table (C2) (C8) on Aerial Imag ed Plants (D1) ion (D2) (D5) Yes	No 0, 2015 vo required) gery (C9)

Project/Site: Clover	Valley Road 515- Acre Site	City/Cou	nty: New Albany/	Licking		Sampling Date:	4-14-2022
Applicant/Owner:	The New Albany Company			State:	ОН	Sampling Point:	U-M-2
Investigator(s): Eric	Nagy, EMH&T	Section, T	ownship, Range:	T. 2 N; I	R. 15 W		
Landform (hillside, te	errace, etc.): terrace	l	ocal relief (conca	ve, conve	ex, none): <u>r</u>	none	
Slope (%):	Lat: 40.102310°	Long:{	32.721869°		[Datum:	
Soil Map Unit Name	: Pewamo silty clay loam (Pe)			N	WI classifi	cation: NA	
Are climatic / hydrole	ogic conditions on the site typic	cal for this time of year?	Yes <u>X</u> No)	(If no, expl	ain in Remarks.)	
Are Vegetation	_, Soil, or Hydrology	significantly disturbed? A	re "Normal Circun	nstances'	present?	Yes <u>X</u> No	o
Are Vegetation	, Soil, or Hydrology	naturally problematic? (I	f needed, explain	any answ	vers in Ren	narks.)	
SUMMARY OF	FINDINGS – Attach site	map showing samplin	g point locatio	ons, tra	insects,	important fea	tures, etc.
Hvdrophytic Vegeta	ation Present? Yes	No X Is the	Sampled Area				

Hydrophytic Vegetation Present?	Yes	No <u>X</u>	Is the Sampled Area		
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes	No_X_
Wetland Hydrology Present?	Yes	No X			
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Fagus grandifolia	20	Yes	FACU	Number of Dominant Species That
2. Carya ovata	5	No	FACU	Are OBL, FACW, or FAC: <u>3</u> (A)
3. Acer saccharum	30	Yes	FACU	Total Number of Dominant Species
4. Acer saccharinum	20	Yes	FACW	Across All Strata: 7 (B)
5. Ostrya virginiana	25	Yes	FACU	Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 42.9% (A/B)
Sapling/Shrub Stratum (Plot size: 15')				
1. Lindera benzoin	15	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 40 x 2 = 80
5.				FAC species 0 x 3 = 0
	15	=Total Cover		FACU species 85 x 4 = 340
Herb Stratum (Plot size: 5')				UPL species 0 x 5 = 0
1. Cardamine douglassii	5	Yes	FACW	Column Totals 125 (A) 420 (B)
2. Geranium maculatum	5	Yes	FACU	Prevalence Index = B/A = 3.36
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 ¹
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	10	=Total Cover		¹ Indicators of bydric soil and wetland bydrology must
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
1.				
2.				nyarophytic Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	ription: (Describe	to the dept	h needed to docu	ument ti	he indica	tor or o	confirm the absence	of indicators.)	
Depth	Matrix		Redox	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	•
0-6	10YR 4/2	100					Loamy/Clayey		
6-12	 10YR 4/1	90	10YR 5/6	10	<u> </u>	м	Loamy/Clavey	Prominent redox cor	centrations
			1011(0/0				Loamy/oldyby		
¹ Type: C=Co	ncentration. D=Dep	etion. RM=	Reduced Matrix. N	/S=Mas	ked Sand	Grains	s. ² Location	: PL=Pore Lining, M=Ma	itrix.
Hydric Soil	ndicators:						Indicato	s for Problematic Hvdr	ic Soils ³ :
Histosol	(A1)		Sandv Gle	ved Mat	rix (S4)		Coas	st Prairie Redox (A16)	
Histic Ep	ipedon (A2)		Sandy Rec	lox (S5)			Iron-	Manganese Masses (F12	2)
Black His	stic (A3)		Stripped M	latrix (Se	3)		Red	Parent Material (F21)	
Hvdroger	n Sulfide (A4)		Dark Surfa	ce (S7)	,		Verv	Shallow Dark Surface (F	22)
Stratified	Lavers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	r (Explain in Remarks)	,
2 cm Mu	ck (A10)		Loamy Gle	yed Mat	rix (F2)			,	
Depleted	Below Dark Surface	(A11)	X Depleted M	/ atrix (F	3)				
Thick Da	rk Surface (A12)	. ,	Redox Dar	k Surfac	e (F6)		³ Indicator	s of hydrophytic vegetati	on and
Sandy M	ucky Mineral (S1)		Depleted D	ark Sur	face (F7)	l	wetla	ind hydrology must be pr	esent,
5 cm Mu	cky Peat or Peat (S3)	Redox Dep	pression	s (F8)		unles	s disturbed or problemat	ic.
Restrictive L	aver (if observed):								
Type:	,								
Depth (in	iches):						Hydric Soil Presen	t? Yes X	No
Bomorko	·						-		
This data for	m is revised from Mi	dwest Reaid	onal Supplement V	/ersion 2	2.0 to inc	lude the	NRCS Field Indicator	s of Hydric Soils. Versior	7.0. 2015
Errata. (http://	//www.nrcs.usda.gov	/Internet/FS	E_DOCUMENTS	/nrcs142	2p2_0512	93.doc	x)	· · , - · · · · - , · - · - · · ·	,
HYDROLO	GY								
Wetland Hv	trology Indicators								
Primary Indic	ators (minimum of o	ne is requir	ed: check all that a	anniv)			Seconda	ry Indicators (minimum o	f two required)
Surface V	Nater (A1)		Water-Stai	ned I ea	ves (B9)		<u> </u>	ace Soil Cracks (B6)	r the required)
High Wa	ter Table (A2)		Aquatic Fa	una (B1	3)		Drair	age Patterns (B10)	
Saturatio	n (A3)		True Aquat	tic Plant	s (B14)		Drv-\$	Season Water Table (C2)	1
Water Ma	arks (B1)		Hvdrogen	Sulfide (Ddor (C1)	Crav	fish Burrows (C8)	
Sedimen	t Deposits (B2)		Oxidized R	hizosph	eres on l	_ .iving R	oots (C3) Satu	ration Visible on Aerial In	agery (C9)
Drift Dep	osits (B3)		Presence of	of Reduc	ed Iron (C4)	Stun	ted or Stressed Plants (D	1)
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soi	ls (C6) Geor	norphic Position (D2)	
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC	Neutral Test (D5)	
Inundatio	on Visible on Aerial Ir	nagery (B7)) Gauge or \	Nell Dat	a (D9)				
Sparsely	Vegetated Concave	Surface (B	8) Other (Exp	lain in R	lemarks)				
Field Obser	vations:								
Surface Wate	er Present? Ye	S	No X	Depth (i	nches):				
Water Table	Present? Ye	s	No X	Depth (i	nches):				
Saturation Pr	resent? Ye	s	No X	Depth (i	nches):		Wetland Hydrolog	gy Present? Yes	No X
(includes cap	oillary fringe)				· -				
Describe Red	corded Data (stream	gauge, moi	nitoring well, aeria	l photos	, previou	s inspec	ctions), if available:		
Remarks:									
No hydology	observed.								

Project/Site: Clover Valley Road 515- Acre Site			unty: New Albany/	Licking		Sampling Date:	4-20-2022
Applicant/Owner:	The New Albany Company			State:	ОН	Sampling Point:	W-N-9
Investigator(s): Eric N	lagy, EMH&T	Section,	Township, Range:	T. 2 N; I	R. 15 W		
Landform (hillside, te	rrace, etc.): terrace		Local relief (concav	/e, conve	ex, none):	none	
Slope (%):	Lat: _40.102730°	Long:	-82.720996°			Datum:	
Soil Map Unit Name:	Pewamo silty clay loam (Pe)			N	WI classi	fication: NA	
Are climatic / hydrolo	gic conditions on the site typical for this time of ye	ar?	Yes <u>X</u> No		(If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distu	urbed?	Are "Normal Circum	istances"	' present?	Yes <u>X</u> No	·
Are Vegetation	, Soil, or Hydrologynaturally problem	natic?	(If needed, explain a	any answ	ers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach site map showing s	sampli	ng point locatio	ons, tra	insects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes YesX Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	NoX
Remarks:					

				Absolute	Dominant	Indicator			
Tree Stratum	(Plot size:	30'	_) _	% Cover	Species?	Status	Dominance Test worksheet:		
1							Number of Dominant Species That		
2							Are OBL, FACW, or FAC:	0	_(A)
3							Total Number of Dominant Species		
4.							Across All Strata:	1	_(B)
5							Percent of Dominant Species That		
					=Total Cover		Are OBL, FACW, or FAC:	0.0%	(A/B)
Sapling/Shrub Strat	<u>tum</u> (Plot	size: 1	l5')						_
1.							Prevalence Index worksheet:		
2.							Total % Cover of: Mu	Itiply by:	
3.							OBL species 0 x 1 =	0	-
4.							FACW species 0 x 2 =	0	-
5.							FAC species 0 x 3 =	0	-
					=Total Cover		FACU species 100 x 4 =	400	-
Herb Stratum	(Plot size:	5') .				UPL species 0 x 5 =	0	_
1. Festuca spp.	·			100	Yes	FACU	Column Totals: 100 (A)	400	- (B)
2.							Prevalence Index = B/A =	4.00	_``
3.			·						-
4.			·				Hydrophytic Vegetation Indicators	:	
5.			·				1 - Rapid Test for Hydrophytic V	egetation	
6.			·				2 - Dominance Test is >50%	-3	
7							3 - Prevalence Index is <3.01		
8							4 - Morphological Adaptations ¹	Provide su	pporting
a							data in Remarks or on a sepa	arate sheet)
10.							Problematic Hydrophytic Vegeta	ation ¹ (Expl	ain)
				100	=Total Cover				
Woody Vine Stratu	m (Plot	size: 1	5')				be present, unless disturbed or prob	lematic.	musi
1.	_ 、								
2.							Hydrophytic Vegetation		
			·		=Total Cover		Present? Yes No	x	
Remarks: (Include	photo numbers	here or on	a separa	ite sheet.)					

Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Re	marks
0-20	10YR 3/2	85	10YR 5/6	15	<u>, , , , , , , , , , , , , , , , , , , </u>	м	Loamy/Clavey	Prominent red	lox concentrations
		·							
		·							
		·							
		etion RM	 =Reduced Matrix_N	 /S=Mae	 ked Sand		² l ocation	PI = Pore Lining	M=Matrix
Hydric Soil	Indicators			10-1103	Keu Gan		Indicato	rs for Problematic	Hydric Soils ³
Histosol	(Δ1)		Sandy Gla	wed Mat	riv (S4)		Coa	st Prairie Redov (A	16)
Histic En	inedon (Δ2)		Sandy Rec	dox (95)	IIX (04)			Manganese Masse	no) ne (F12)
Black His	stic (A3)		Oandy Rec	lon (00) Iatrix (Sf	3)		Red	Parent Material (F2	21)
Hvdroge	n Sulfide (A4)		Dark Surfs	ace (97)	~			Shallow Dark Surf	- 1) ace (E22)
Stratified				ice (37)	aral (E1)			r (Evolain in Rema	208 (122) rke)
2 cm Mu	ck (A10)			wed Mat	riv (⊑2)				ino)
2 cill livid	Relow Dark Surface	(A11)	Loanly Ge	Antrix (E	3) 3)				
Thick Da	rk Surface (A12)	(~1)	X Redox Day	rk Surfac	9) 99 (F6)		³ Indicato	rs of bydrophytic ve	agetation and
Sandy M	ucky Mineral (S1)			Jark Sur	face (E7)		wetl	and bydrology must	be present
5 cm Mu	cky Peat or Peat (S3	<u>،</u>	2 Redox Der		E (F8)		unle	es disturbed or prof	blematic
0 0.000 000		/			5 (1 5)				
	aver ut observedi.								
	-ayo: (obco: roa).								
Type:							Uudria Cail Draaar	42 Va	
Restrictive I Type: Depth (ir Remarks: This data for	nches):	west Reg	jional Supplement \	/ersion 2	2.0 to inc	ude the	Hydric Soil Presen	t? Ye	s X No ///
Type: _ Depth (ir Remarks: This data for Errata. (http:	mis revised from Mid	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	ude the	Hydric Soil Presen	t? Ye rs of Hydric Soils, V	rs X No
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO	m is revised from Mid //www.nrcs.usda.gov	Jwest Reç /Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	ude the	Hydric Soil Presen	t? Ye	s <u>X</u> No /ersion 7.0, 2015
Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd	m is revised from Mid //www.nrcs.usda.gov	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	ude the	Hydric Soil Presen	t? Ye	s <u>X</u> No /ersion 7.0, 2015
Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyu Primary Indic	m is revised from Mid //www.nrcs.usda.gov GY drology Indicators: ators (minimum of o	Jwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142 apply)	2.0 to inc 2p2_0512	ude the	Hydric Soil Presen	t? Ye	resion 7.0, 2015
Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface V	m is revised from Mid //www.nrcs.usda.gov GY drology Indicators: cators (minimum of o Water (A1)	Jwest Reç /Internet/F	jional Supplement \ ⁻ SE_DOCUMENTS <u>ired; check all that a</u> Water-Stai	/ersion 2 /nrcs142 apply) ined Lea	2.0 to inc 2p2_0512	ude the	Hydric Soil Presen	t? Ye rs of Hydric Soils, V ry Indicators (minin ace Soil Cracks (B6	<u>s X No</u> /ersion 7.0, 2015 <u>num of two required</u> δ)
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyu Primary Indic Surface V High Wa	m is revised from Mid m is revised from Mid //www.nrcs.usda.gov GY drology Indicators: cators (minimum of o Water (A1) ter Table (A2)	Jwest Reg /Internet/F	ional Supplement \ SE_DOCUMENTS ired; check all that a Water-Stai Aquatic Fa	/ersion 2 /nrcs142 apply) ined Lea auna (B1	2.0 to inc 2p2_0512 ves (B9) 3)	ude the	Hydric Soil Presen	t? Ye	s X No /ersion 7.0, 2015 num of two required 5)
Restrictive I Type: _ Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyu Primary India Surface V High Wa Saturatio	mis revised from Mid //www.nrcs.usda.gov GY drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3)	dwest Reg /Internet/F	jional Supplement \ SE_DOCUMENTS <u>ired; check all that a</u> Water-Stai Aquatic Fa True Aqua	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant	2.0 to inc 2p2_0512 ves (B9) 3) s (B14)	ude the	Hydric Soil Presen	t? Ye	<u>s X No</u> /ersion 7.0, 2015 <u>num of two required</u> 3))) le (C2)
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Project/Site: Clover	Valley Road 515- Acre Site	City/County: New Albany/	Licking	Sampling Date:	4-14-2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	U-0-19
Investigator(s): Eric	Nagy, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, to	errace, etc.): terrace	Local relief (conca	ve, convex, none):	none	
Slope (%):	_ Lat: 40.101986°	Long: -82.720513°		Datum:	
Soil Map Unit Name	: Bennington silt loam (BeB)		NWI classi	fication: NA	
Are climatic / hydrol	ogic conditions on the site typical for this time of y	ear? Yes <u>X</u> No) (If no, ex	plain in Remarks.)	
Are Vegetation	_, Soil, or Hydrologysignificantly dist	turbed? Are "Normal Circun	nstances" present?	Yes <u>X</u> No) <u> </u>
Are Vegetation	_, Soil, or Hydrology naturally proble	matic? (If needed, explain	any answers in Re	emarks.)	
SUMMARY OF	FINDINGS – Attach site map showing	sampling point location	ons, transects	, important fea	tures, etc.
Hydrophytic Vegeta	ation Present? Yes <u>No X</u>	Is the Sampled Area			

riyurophytic vegetation riesent?	163		is the Samplet Area		
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes	No_X_
Wetland Hydrology Present?	Yes	No X			
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Fagus grandifolia	30	Yes	FACU	Number of Dominant Species That
2. Quercus bicolor	10	No	FACW	Are OBL, FACW, or FAC: 2 (A)
3. Quercus rubra	40	Yes	FACU	Total Number of Dominant Species
4. Ulmus americana	20	Yes	FACW	Across All Strata: 6 (B)
5.				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 33.3% (A/B)
Sapling/Shrub Stratum (Plot size: 15')				
1. Lindera benzoin	15	Yes	FACW	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 45 x 2 = 90
5.				FAC species 0 x 3 = 0
	15	=Total Cover		FACU species 75 x 4 = 300
Herb Stratum (Plot size: 5')		2		UPL species 5 x 5 = 25
1. Fragaria vesca	5	Yes	UPL	Column Totals: 125 (A) 415 (B)
2. Claytonia virginica	5	Yes	FACU	Prevalence Index = B/A = 3.32
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 ¹
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	10	=Total Cover		¹ Indicators of bydric soil and wetland bydrology must
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.
1. <u> </u>				
2.				Nucleon Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

(inches) Status Remarks 0-6 10YR 3/2 100	(inches) Color 0-6 10YF 6-20 10YF	IVIBUIN	Redo	x Featur	es			
0-6 10YR 3/2 100 Lasmy/Clayey 6-20 10YR 3/2 90 10YR 5/6 10 C M Loamy/Clayey Prominent redox concentrator 6-20 10YR 3/2 90 10YR 5/6 10 C M Loamy/Clayey Prominent redox concentrator 1*Type: C-Concentration, D-Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Histosci (A1) Sandy Glayed Matrix (S4) Indicators for Problematic Hydric Solls?: Indicators for Problematic Hydric Solls?: Histosci (A1) Sandy Redox (S5) Indicators of Profe Reset (A16) Prom Hadrati (F2) Straffied Layers (A5) Leamy Kleyed Matrix (F3) General Mutrix (F3) Thick Dark Surface (F7) Straffied Layers (A5) Leamy Kleyed Matrix (F2) Depleted Matrix (F2) Secondary Indicators of Hydrophydic wegetation and wetand hydrology must be present, watand hydrology must be present, secondary Indicators of Hydrophydic wegetation and track (F8) Sorm Mucky Peet or Peet (S3) Redox Dark Surface (F7) wetand hydrology must be present, secondary Indicators of Hydric Solls, Version 7.0, 2015 Firmary Indicators Immuned from Bis respected S1 Leamy Kleyee S1 Leamy Kleyee S1	0-6 10Yi 6-20 10Yi	(moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
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Type: Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Histocol (1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Soils * Histocol (1) Sandy Gleyed Matrix (S6) Red Parent Material (F21) Histocol (A1) Operative Simped Matrix (S6) Red Parent Material (F21) Hydric Soil Indicators (A1) Derk Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) * Thick Dark Surface (A11) Depleted Matrix (F3) * Stratified Layers (P observed): Type:		3/2 90	10YR 5/6	10	С	М	Loamy/Clayey	Prominent redox concentrations
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Type: C-concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ?Location: PL=Pore Lining, M=Matrix. Hydric Soli Indicators: Indicators for Problematic Hydric Solis? Inclustors for Problematic Hydric Solis? Histic Epipedon (A2) Sandy Redox (S5) Incr-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfde (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mudxy Mineral (F1) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. S or Mudxy Poet or Peat (S3) Redox Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Type:								
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	Sandy Mucky Miner	ral (S1)	Depleted D	ark Sur	face (F7)		wetla	and hydrology must be present,
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Type: Hydric Soil Present? Yes _ X _ No_ Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sufface Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Innucation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sturation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vagetated Concave Suiface (B8) Other (Explain in Remarks) Fleid Observations: Modit (Inches): Surface Water Present? Yes No X Depth (inches): Modit (Inches): Sparsely Vagetated Concave Suiface (B8) Other (Explain in Remarks)	Restrictive Layer (if ol	oserved):						
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Remarks:	Depth (inches):						Hydric Soil Presen	t? Yes X No
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Water Marks (B1)				tic Plant Sulfide (S (B14) Ddae (C1)			
Sediment Deposits (62)	vvater Marks (B1)	(00)	Hydrogen	Suiride		l Indone Die	cta (C2)	rish Burrows (C8)
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Project/Site: Clover Valley Road 515- Acre Site			City	City/County: New Albany/ Licking				Sampling Date:	04/14/2022
Applicant/Owner:	The New A	Albany Company				State:	ОН	Sampling Point:	UPP-1
Investigator(s): Bryan	Lombard,	EMH&T	Sec	tion, Town	ship, Range	T. 2 N;	R. 15 W		
Landform (hillside, te	errace, etc.)	: woods		Loca	al relief (conc	ave, conv	ex, none):	convex	
Slope (%):4	Lat: 40.1	00913°	Lo	ong: <u>-82.7</u>	19522°			Datum:	
Soil Map Unit Name:	Benningto	n (BeB)				N	IWI class	ification: None	
Are climatic / hydrolo	gic conditio	ons on the site typica	al for this time of year?	Yes	<u> </u>	lo	(lf no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed	d? Are "	Normal Circu	Imstances	" present	? Yes <u>X</u> No)
Are Vegetation	, Soil	, or Hydrology	naturally problematic	? (If ne	eded, explai	n any ansv	vers in Re	emarks.)	
SUMMARY OF	FINDING	S – Attach site	map showing san	npling p	oint locat	ions, tra	ansects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes YesX Yes	No X No No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	70	Yes	FACW	Number of Dominant Species That
2. Fagus grandifolia	30	Yes	FACU	Are OBL, FACW, or FAC: 2 (A)
3				Total Number of Dominant Species
4				Across All Strata: 5 (B)
5				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 40.0% (A/B)
Sapling/Shrub Stratum (Plot size:)				
1. Rosa multiflora	35	Yes	FACU	Prevalence Index worksheet:
2. Lindera benzoin	10	Yes	FACW	Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 80 x 2 = 160
5.				FAC species 0 x 3 = 0
	45	=Total Cover		FACU species 85 x 4 = 340
Herb Stratum (Plot size:)				UPL species 0 x 5 = 0
1. Geranium maculatum	20	Yes	FACU	Column Totals: 165 (A) 500 (B)
2.				Prevalence Index = $B/A = 3.03$
3.				
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6		·		2 - Dominance Test is >50%
7		·		$3 - $ Prevalence Index is $\leq 3.0^{1}$
8				4 - Morphological Adaptations ¹ (Provide supporting
o				data in Remarks or on a separate sheet)
3 10				Brohlematic Hydrophytic Vegetation ¹ (Explain)
10				
Mandy Vinc Stratum (Distaire)				Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed of problematic.
ı				Hydrophytic
Z		-Total Causer		Vegetation
		= I otal Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Depth	matrix	to the deptr	needed to doc	ument ti v Featur		ator or c	confirm the absence (of indicators.)
(inches)	Color (moist)		Color (moist)	<u>% realur</u>	Type ¹		Texture	Pemarke
				<u></u>	<u>-1360</u>			
0-12	101R 3/2	95	101 R 5/4		<u> </u>		Loamy/Clayey	
		·						
<u>1</u>							2,	
	Indicatora	DIETION, RMER	Reduced Matrix, M	NS=Mas	Ked Sand	d Grains		: PL=Pore Lining, M=Matrix.
			Sandy Cla	und Mot			Indicator	s for Problematic Hydric Solis :
	(AT) inadan (A2)		Sandy Gie	yeu wat	IIX (34)		Coas	
	npedon (A2)			JUX (33) Intriv (86	2)		11011-1 Rod I	Parent Material (521)
	suc (A3) n Sulfida (A4)		Supped iv	aux (30	5)			Shellow Dark Surface (E22)
				ice (S7) Ioku Min	orol (E1)			r (Explain in Remorke)
	ak (A10)							
	CK (ATU) I Balow Dark Surfaa	o /A11)	Loaniy Gie	Actrix /E	uix (⊏∠) 2\			
Depieted	rk Surface (A12)	6 (ATT)	Depleted i	vialitik (F	3) 20 (E6)		³ Indicator	re of hydrophytic vogetation and
Sandy M	ucky Mineral (S1)			Jork Sur	face (E7)	`	wetla	and hydrology must be present
	cky Peat or Peat (S1)	3)	Depleted I		a (E8)	,	unles	es disturbed or problematic
O ciri wu				000000	3 (1 0)		unica	
Tuno	ayer (if observed)	i						
Type			_				Ukrdaia Cali Dasa ant	
Deptii (ii	<u> </u>		_				nyunc son Fresen	
Remarks:								
I his data for	m is revised from M	idwest Regio	nal Supplement V	/ersion 2	2.0 to inc	lude the	NRCS Field Indicators	s of Hydric Soils, Version 7.0, 2015
Errata. (http:/	//www.nrcs.usda.go	v/Internet/FS	E_DOCUMENTS	/nrcs142	2p2_0512	293.doc)	x)	
HTDROLU	GT							
Wetland Hy	drology Indicators:						0	
Primary India	ators (minimum or (one is require	a; check all that	appiy)			<u>Secondal</u>	ry indicators (minimum of two required)
	water (A1)			ined Lea	ives (B9)		Suria	
				iuna (Bi	3) 			hage Patterns (BTU)
	on (A3) orko (B1)			Cultide (S (B14)	、	Dry-s	
	t Doposita (P2)			Suinue () Living D	oote (C3) Sotu	nsii Bullows (Co)
Sedimen	osite (B2)		Oxiuizeu P	of Podur	eles on i		Stur	tod or Strossod Plants (D1)
	t or Crust (B4)		Presence		tion in Ti	(U4) illed Soil		norphic Position (D2)
	osite (B5)		Thin Muck	Surface			IS (CO) COOI	Neutral Test (D5)
	usilis (DD) In Visible on Aerial I	mageny (B7)			; (C7) ;a (D0)			
Sparsely	Venetated Concave	Surface (B8	Other (Exr	olain in F	(DO) Remarks)			
Opener								
Field Obser	vations:		No V	Death /i	nahaa\;			
Surface wat		"» <u> </u>		Depth (i	nches).			
Seturation D	resent?			Depth (i	nches).		Watland Uvdreley	
(includes cor	villary fringe)			Depin (I	nones): _			
Describe Por			itoring well porio	l nhotos	nreviou	e inenec	tions) if available:	
		, gaage, mon	aella		, hieviou	e nispet		
Remarks:								

Project/Site: Clover	Valley Road 515- Acre Site	City/County: New Albany	// Licking	Samplir	ng Date:	4-20-2022
Applicant/Owner:	The New Albany Company		_State:	OH Samplir	ng Point:	U-Q-1
Investigator(s): Eric	Nagy, EMH&T	Section, Township, Range	: <u>T. 2 N; R.</u>	15 W		
Landform (hillside, t	errace, etc.): depression	Local relief (conc	ave, convex,	none): concave		
Slope (%):	Lat: 40.100815°	Long: <u>-82.715253</u> °		Datum:		
Soil Map Unit Name	: Condit silt loam (Cn)		NW	l classification: N	A	
Are climatic / hydrol	ogic conditions on the site typical for this	s time of year? Yes X N	lo (If	no, explain in Re	marks.)	
Are Vegetation	_, Soil, or Hydrologysignif	icantly disturbed? Are "Normal Circu	ımstances" p	resent? Yes	X No	»
Are Vegetation	, Soil, or Hydrologynatur	ally problematic? (If needed, explai	n any answer	s in Remarks.)		
SUMMARY OF	FINDINGS – Attach site map s	howing sampling point locat	tions, tran	sects, import	tant fea	tures, etc.
Hudroph tie Veget	ntion Brosont? Yos No Y	In the Sempled Area				

Hydrophytic Vegetation Present?	Yes	No <u>X</u>	Is the Sampled Area		
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes	No_X_
Wetland Hydrology Present?	Yes	No X			
Remarks:					

	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:	
1. Acer saccharinum	70	Yes	FACW	Number of Dominant Species That	
2. Maclura pomifera	30	Yes	FACU	Are OBL, FACW, or FAC: 1	_(A)
3.				Total Number of Dominant Species	_
4.				Across All Strata: 6	(B)
5				Percent of Dominant Species That	
	100	=Total Cover		Are OBL, FACW, or FAC: 16.7%	(A/B)
Sapling/Shrub Stratum (Plot size: 15')					-
1. Ligustrum vulgare	10	Yes	FACU	Prevalence Index worksheet:	
2. Rubus occidentalis	5	Yes	UPL	Total % Cover of: Multiply by:	_
3.				OBL species 0 x 1 = 0	-
4.				FACW species 70 x 2 = 140	-
5.				FAC species 0 x 3 = 0	-
	15	=Total Cover		FACU species 55 x 4 = 220	-
Herb Stratum (Plot size: 5')				UPL species 20 x 5 = 100	-
1. Solidago canadensis	10	Yes	FACU	Column Totals: 145 (A) 460	- (B)
2. Fragaria vesca	15	Yes	UPL	Prevalence Index = B/A = 3.17	
3. Aster spp.	5	No	FACU		-
4.				Hydrophytic Vegetation Indicators:	
5.				1 - Rapid Test for Hydrophytic Vegetation	
6.				2 - Dominance Test is >50%	
7.				3 - Prevalence Index is ≤3.0 ¹	
8.				4 - Morphological Adaptations ¹ (Provide su	oporting
9				data in Remarks or on a separate sheet)	J
10.				Problematic Hydrophytic Vegetation ¹ (Expla	ain)
	30	=Total Cover		¹ Indicators of hydric call and watland hydrology	muet
Woody Vine Stratum (Plot size: 15')				be present, unless disturbed or problematic.	must
1.					
2.				Vegetation	
		=Total Cover		Present? Yes No X	
Remarks: (Include photo numbers here or on a separ	ate sheet.)				
Buttonbush is located in the center of the wetland.	,				

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 4/2	90	10YR 5/6	10	C	м	Loamv/Clavev	Prominent redox concentrations
		·						
		·						
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	Grains	. ² Locat	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		C	oast Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy Red	lox (S5)			Irc	on-Manganese Masses (F12)
Black His	stic (A3)		Stripped N	latrix (Se	5)			ed Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ice (S7)				ery Shallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	cky Mine	eral (F1)		o	ther (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	trix (F2)			
Depleted	Below Dark Surfac	e (A11)	X Depleted N	<i>l</i> atrix (F	3)			
Thick Da	ark Surface (A12)		Redox Dar	k Surfac	æ (F6)		³ Indica	ators of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted D	Dark Sur	face (F7))	w	etland hydrology must be present,
5 cm Mu	cky Peat or Peat (S	3)	? Redox Dep	pression	s (F8)		ur	nless disturbed or problematic.
Restrictive I	Layer (if observed)	1						
Type:								
- Depth (ir	nches):		_				Hydric Soil Pres	ent? Yes X No
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one is requir	ed; check all that a	apply)			Secon	ndary Indicators (minimum of two required)
Surface	Water (A1)		Water-Stai	ined Lea	ives (B9)		Si	urface Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	iuna (B1	3)		Di	rainage Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plant	s (B14)		D	ry-Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide (Odor (C1)	C	rayfish Burrows (C8)
Sedimen	it Deposits (B2)			hizosph	eres on l	_iving R	oots (C3) Sa	aturation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Presence	of Reduc	ced Iron	(C4)	SI	tunted or Stressed Plants (D1)
	t or Crust (B4)		Recent Iro	n Reduc		lied Soil	IS (C6)G	eomorphic Position (D2)
Iron Dep	OSIIS (BD) m Minihla am Annial I						F/	AC-Neutral Test (D5)
	on visible on Aerial I	magery (B7)Gauge or \	ven Dat	a (D9) Iomorko)			
Sparsely	vegetated Concave	e Suriace (B		ain in F	emarks)			
Field Obser	vations:			- <i></i>				
Surface wat	er Present? Ye	es		Depth (I	ncnes): 			
Seturation D	Present?			Depth (i Depth (i	ncnes): _		Motiond Hydre	No. V
(includes cor	resent? Te	es		Depth (i	ncnes): _		wetland Hydro	blogy Present? fes NO $\stackrel{\times}{\longrightarrow}$
Describe Ro	corded Data (stream		nitoring well serie	l photoe	previou	s insner	tions) if available:	
		. gaago, mu	moning well, della	. p. 0.03	, p. 6 100			
Remarks:								
No hydrology	y observed.							

Project/Site: Clover	Valley Road 515- Acre Site	City/County: New Albany/	Licking		Sampling Date:	03/2/2022
Applicant/Owner:	The New Albany Company		State:	ОН	Sampling Point:	UPR-1
Investigator(s): Eric I	Nagy, EMH&T	Section, Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, te	errace, etc.): woods	Local relief (conca	ive, conv	/ex, none):	convex	
Slope (%): 3	_ Lat: _40.104522°	Long: <u>-82.711540°</u>			Datum:	
Soil Map Unit Name	: Bennington (BeB)			NWI classi	fication: None	
Are climatic / hydrold	ogic conditions on the site typical for this time of y	rear? Yes <u>X</u> No	<u></u>	(If no, exp	olain in Remarks.)	
Are Vegetation	_, Soil, or Hydrologysignificantly dis	turbed? Are "Normal Circur	nstance	s" present?	Yes X No)
Are Vegetation	_, Soil, or Hydrologynaturally proble	matic? (If needed, explain	any ans	wers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach site map showing	sampling point locati	ons, ti	ransects	, important fea	tures, etc.

Hydrophytic Vegetation Present?	Yes	No	x	Is the Sampled Area		
Hydric Soil Present?	Yes	No	x	within a Wetland?	Yes	No_X_
Wetland Hydrology Present?	Yes	No	X			
Remarks:						

			Absolute	Dominant	Indicator			
Tree Stratum	(Plot size:	_)	% Cover	Species?	Status	Dominance Test worksheet:		
1. Ulmus rubra			65	Yes	FAC	Number of Dominant Species That		
2. Quercus rubra			20	Yes	FACU	Are OBL, FACW, or FAC:	2	(A)
3. Populus deltoide	es		10	No	FAC	Total Number of Dominant Species		
4. Maclura pomife	ra		5	No	FACU	Across All Strata:	4	(B)
5.						Percent of Dominant Species That		_
			100	=Total Cover		Are OBL, FACW, or FAC:	50.0%	(A/B)
Sapling/Shrub Strat	tum (Plot size:))			-		-
1. Rosa multiflora			20	Yes	FACW	Prevalence Index worksheet:		
2.						Total % Cover of: Mu	ltiply by:	
3.						OBL species 0 x 1 =	0	-
4.						FACW species 20 x 2 =	40	-
5.						FAC species 75 x 3 =	225	-
			20	=Total Cover		FACU species 75 x 4 =	300	-
Herb Stratum	(Plot size:)				UPL species 0 x 5 =	0	-
1.						Column Totals: 170 (A)	565	- (B)
2.						Prevalence Index = B/A =	3.32	
3.								-
4.						Hydrophytic Vegetation Indicators	:	
5.						1 - Rapid Test for Hydrophytic V	egetation	
6.						2 - Dominance Test is >50%	•	
7.						3 - Prevalence Index is ≤3.0 ¹		
8.						4 - Morphological Adaptations ¹ (I	Provide sur	oporting
9.						data in Remarks or on a sepa	rate sheet)	
10.						Problematic Hydrophytic Vegeta	tion ¹ (Expla	ain)
				=Total Cover		¹ Indicators of bydric soil and wetland	bydrology	muet
Woodv Vine Stratu	m (Plot size:	,				be present, unless disturbed or probl	ematic.	musi
1. Vitis vinifera		′	50	Yes	FACU			
2.						Nurophytic Vegetation		
			50	=Total Cover		Present? Yes No	x	
Remarks: (Include	photo numbers here or o	n a sepai	ate sheet.)			•		

Profile Desc	ription: (Describe	to the dep	th needed to doci	ument th	he indica	ator or o	confirm the absence of	of indicators.)			
Depth	Matrix		Redo	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-3	10YR 3/2	100									_
3-20	10YR 5/3	90	10YR 7/6	10	С	М	Loamy/Clayey	Distinct re	dox concen	trations	_
	oncentration D=Den	etion RM		 MS=Mae	ked Sand				a M=Matrix	,	
	Indicators:			10-11/25	Keu Sand	Giains	Indicator	s for Problema	tic Hydric !	soils ^{3,}	
Histosol	(A1)		Sandy Gle	wed Mat	rix (S4)		Coas	t Prairie Redox ((A16)		
Histic Fr	pipedon (A2)		Sandy Rec	dox (S5)			Iron-I	Vanganese Mas	ses (F12)		
Black Hi	Black Histic (A3)						Red I	Parent Material ((F21)		
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)	.,		Verv	Shallow Dark Si	urface (F22)	۱ ۱	
Stratified	Lavers (A5)		Loamv Mu	icky Mine	eral (F1)		Othe	(Explain in Ren	narks)	,	
2 cm Mu	ick (A10)		Loamy Gle	eved Mat	trix (F2)			(,		
Depleted	Below Dark Surface	(A11)	Depleted M	Matrix (F	3)						
Thick Da	ark Surface (A12)	、	Redox Dar	rk Surfac	, e (F6)		³ Indicator	s of hydrophytic	vegetation	and	
Sandy M	lucky Mineral (S1)		Depleted [Jark Sur	face (F7)	1	wetla	nd hydrology mi	ust be prese	ənt,	
5 cm Mu	5 cm Mucky Peat or Peat (S3) Redox Depressions (F8)						unles	s disturbed or p	roblematic.		
Restrictive	Layer (if observed):										
Туре:	N/A										
Depth (ir	nches):						Hydric Soil Present	? `	Yes	No 2	х
Errata. (http:	//www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.doc)	x)		, veision 7.	0, 2015	
HYDROLO	GY										
Wetland Hy	drology Indicators:										
Primary India	cators (minimum of o	ne is requ	ired; check all that	apply)			Secondar	y Indicators (mii	nimum of tv	vo require	<u>ed)</u>
Surface	Water (A1)		Water-Stai	ined Lea	ives (B9)		Surfa	ce Soil Cracks ((B6)		
High Wa	iter Table (A2)		Aquatic Fa	una (B1	3)		Drain	age Patterns (B	10)		
Saturatio	on (A3)		True Aqua	tic Plant	s (B14)		Dry-S	eason Water Ta	able (C2)		
Water M	arks (B1)		Hydrogen	Sulfide (Odor (C1))	Crayf	ish Burrows (C8	3)		
Sedimer	nt Deposits (B2)			≀hizosph	eres on l	_iving R	oots (C3) Satur	ation Visible on	Aerial Imag	jery (C9)	
Drift Dep	oosits (B3)		Presence	of Reduc	ed Iron ((C4)	Stunt	ed or Stressed I	Plants (D1)		
Algal Ma	it or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	ls (C6) Geon	norphic Position	(D2)		
	osits (B5)	······			+ (C7)		FAC-	Neutral Test (Dt	5)		
	on Visible on Aerial Ir	nagery (B	() Gauge or (B8) Other (Evr	vveli Dati	a (D9) Jomorko)						
Sparsery	vegetated Concave	Sunace (Main in R	emarks)		1				
Field Obser	vations:			Б (1 (1							
Surface wat	Present? Ye	s		Depth (II	ncnes): _						
Seturation D	resent? Ye	s		Depth (ii	ncnes): _		Watland Uvdrala	n/ Brocont?	Vaa	No	v
(includes car	resent? te pillan (fringe)	s		Depth (ii	ncnes): _			jy Present?	res		<u>~</u>
Describe Re	corded Data (stream	nauna m	onitoring well aeria		previou	s insner	tions) if available:				
		gauge, m	Shitoring wen, aena	i priotos	, pieviou.	a mapee					
Remarks:											

Project/Site: Clover Valley Ro	oad 515- Acre Site		City/County: New Albany	// Licking	ng Sampling Date: 03/9/2					
Applicant/Owner: The Net	w Albany Company			State:	ОН	Sampling Point:	U-S-1			
Investigator(s): Eric Nagy, EN	/H&T		Section, Township, Range	: <u>T. 2 N;</u>	R. 15 W					
Landform (hillside, terrace, et	ic.): terrace		Local relief (cond	ave, conv	ex, none):	none				
Slope (%): Lat: 40).104620°		Long: -82.712561°			Datum:				
Soil Map Unit Name: Benning	gton (BeB)		NWI classification: None							
Are climatic / hydrologic cond	litions on the site typi	ical for this time of yea	ar? Yes <u>X</u> N	No	(If no, ex	plain in Remarks.)				
Are Vegetation, Soil	, or Hydrology	significantly distu	turbed? Are "Normal Circumstances" present? Yes X No							
Are Vegetation, Soil	, or Hydrology	naturally problem	atic? (If needed, explai	n any ans	wers in Re	əmarks.)				
SUMMARY OF FINDIN	GS – Attach site	e map showing s	ampling point loca	tions, tr	ansects	s, important fea	tures, etc.			
Hydrophytic Vegetation Pres	sent? Yes	No X	Is the Sampled Area							
Hydric Soil Present?	Yes X	No	within a Wetland?	•	/es	<u>No X</u>				
Wetland Hydrology Present?	? Yes	No <u>X</u>								
Remarks:			•							

VEGETATION – Use scientific names of plar

I

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer saccharinum	50	Yes	FACW	Number of Dominant Species That
2. Quercus palustris	20	Yes	FACW	Are OBL, FACW, or FAC: <u>2</u> (A)
3. Juglans nigra	30	Yes	FACU	Total Number of Dominant Species
4.				Across All Strata: 5 (B)
5.				Percent of Dominant Species That
	100	=Total Cover		Are OBL, FACW, or FAC: 40.0% (A/B)
Sapling/Shrub Stratum (Plot size:)		-		
1. Rosa multiflora	20	Yes	FACU	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 70 x 2 = 140
5.				FAC species 0 x 3 = 0
	20	=Total Cover		FACU species 80 x 4 = 320
Herb Stratum (Plot size:)		-		UPL species 0 x 5 = 0
1				Column Totals 150 (A) 460 (B)
2.				Prevalence Index = B/A = 3.07
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 ¹
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
		=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)		-		be present, unless disturbed or problematic.
1. Vitis labrusca	30	Yes	FACU	
2.				nyaropnyac Vegetation
	30	=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Profile Desc	ription: (Describe t	o the depth	n needed to docu	ument th	ne indica	ator or o	confirm the absence	of indicators.)
Depth Matrix Redox Features								
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/1	85	10YR 4/6	15	_C	M	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=Co	oncentration, D=Deple	etion, RM=F	Reduced Matrix, N	/S=Masl	ked Sand	d Grains	s. ² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	indicators:						Indicato	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mati	rix (S4)		Coas	t Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy Rec	lox (S5)			Iron-	Manganese Masses (F12)
Black Histic (A3) Stripped Matrix (S6)						Red	Parent Material (F21)	
Hydroger	n Sulfide (A4)		Dark Surfa	ice (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	əral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	Below Dark Surface	(A11)	X Depleted N	Aatrix (F:	3)			
Thick Da	rk Surface (A12)		X Redox Dar	k Surfac	æ (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted D	Jark Surf	face (F7))	wetla	nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S3))	Redox Dep	pressions	s (F8)		unles	s disturbed or problematic.
Restrictive I	_ayer (if observed):							
Туре:	N/A							
Depth (in	iches):		_				Hydric Soil Present	? Yes <u>X</u> No
Remarks:			-			•		
This data for	m is revised from Mid	lwest Regio	nal Supplement V	/ersion 2	2.0 to inc	lude the	NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015
Errata. (http:/	//www.nrcs.usda.gov/	Internet/FS	E_DOCUMENTS	/nrcs142	2_0512	293.doc)	x)	
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary Indic	cators (minimum of or	ne is require	ed; check all that a	apply)			Seconda	ry Indicators (minimum of two required)
Surface 1	Water (A1)		Water-Stai	ined Lea	ves (B9)		Surfa	ace Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	iuna (B1:	3)		Drair	age Patterns (B10)
Saturatic	n (A3)		True Aqua	tic Plants	s (B14)		Dry-\$	Season Water Table (C2)
Water M	arks (B1)		Hydrogen :	Sulfide C)dor (C1)	Cray	fish Burrows (C8)
Sedimen	t Deposits (B2)		Oxidized R	hizosph،	eres on l	Living R [.]	oots (C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Presence of	of Reduc	ed Iron ((C4)	Stun	ed or Stressed Plants (D1)
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	ls (C6) Geor	norphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC·	Neutral Test (D5)
Inundatio	on Visible on Aerial Im	nagery (B7)	Gauge or \	Nell Data	a (D9)			
Sparsely	Vegetated Concave	Surface (B8	3)Other (Exp	lain in R	emarks)			
Field Obser	vations:							
Surface Wate	er Present? Yes	3	No <u>X</u>	Depth (ir	nches): _			
Water Table	Present? Yes	3	No <u>X</u>	Depth (ir	nches): _			
Saturation Pr	resent? Yes	3	No <u>X</u>	Depth (ir	nches): _		Wetland Hydrolog	gy Present? Yes No _X
(includes cap	oillary fringe)							
Describe Red	corded Data (stream	gauge, mor	nitoring well, aeria	I photos,	, previou	s inspec	ctions), if available:	
Remarks:								

Project/Site: Supplier	oject/Site: Supplier Site			icking		Sampling Date:	03/3/2022	
Applicant/Owner:	The New Albany Company		:	State:	ОН	Sampling Point:	WT-1	
Investigator(s): Eric N	lagy, EMH&T	Section, Towns	hip, Range:	T. 2 N; F	R. 15 W			
Landform (hillside, te	errace, etc.): woods	Local	relief (concave	e, conve	x, none):	convex		
Slope (%): 3	Lat: 40.102970°	_ Long: <u>-82.70</u>	9874°	Datum:				
Soil Map Unit Name:	Bennington (BeB)			N	WI classif	fication: None		
Are climatic / hydrolo	gic conditions on the site typical for this time of ye	ar? Yes_	X No		(If no, exp	olain in Remarks.)		
Are Vegetation	, Soil, or Hydrologysignificantly distu	urbed? Are "N	ormal Circums	stances"	present?	Yes <u>X</u> No)	
Are Vegetation	, Soil, or Hydrologynaturally problem	natic? (If nee	ded, explain a	iny answ	ers in Re	marks.)		
SUMMARY OF F	FINDINGS – Attach site map showing s	sampling po	oint locatio	ons, tra	nsects	, important fea	tures, etc.	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:					

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size:) <u>% Cover</u>	Species?	Status	Dominance Test w	orkshee	et:		
1. Acer saccharinum	90	Yes	FACW	Number of Dominar	nt Specie	es That		
2.				Are OBL, FACW, or	r FAC:	_	1	(A)
3.				Total Number of Do	minant S	- Species		_
4.				Across All Strata:			3	_(B)
5.				Percent of Dominar	nt Specie	s That		
	90	=Total Cover		Are OBL, FACW, or	r FAC:	-	33.3%	(A/B)
Sapling/Shrub Stratum (Plot size:)					-		
1. Rosa multiflora		Yes	FACU	Prevalence Index	workshe	et:		
2. Lonicera periclymenum		Yes	FACU	Total % Cover	of:	Mu	Itiply by:	
3.				OBL species	0	x 1 =	0	_
4.				FACW species	90	x 2 =	180	-
5.				FAC species	0	x 3 =	0	-
		=Total Cover		FACU species	20	x 4 =	80	-
Herb Stratum (Plot size:)			UPL species	0	x 5 =	0	-
, <u></u> ,,				Column Totals:	110	(A) -	260	– (B)
2.				Prevalence Index	x = B/A =	= -	2.36	_``
3.								_
4.				Hydrophytic Veget	tation In	dicators	:	
5.				1 - Rapid Test f	for Hydro	phytic V	egetation	
6.				2 - Dominance	Test is >	·50%	U U	
7.				3 - Prevalence	Index is :	≤3.0 ¹		
8.				4 - Morphologia	al Adapt	ations ¹ (Provide su	pporting
9.				data in Rema	arks or o	n a sepa	rate sheet))
10.				Problematic Hv	drophytic	c Veqeta	tion ¹ (Expl	ain)
		=Total Cover		¹ Indicators of hydric		wotland	bydrology	must
Woody Vine Stratum (Plot size:)			be present, unless of	disturbed	l or probl	lematic.	must
· ` ` ` ` `	,			Lindro a budio		•		
2.				Vegetation				
					- v	N		
		= I otal Cover		Present? Te	s <u>X</u>	NO_		

Profile Desc	ription: (Describe	to the depr	th needed to docu	ument ti	ne indica	ator or o	confirm the absence	of indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-6	10YR 4/3	100								
6-12	10YR 4/2	80		20	<u> </u>	м	Loamv/Clavev	Prominent	redox conce	ntrations
	1011(4/2		1011(4/0				Loamy/olaycy			
		ation DM-					2	- DI - Doro Linir	a M-Matri	
	Indicators:	euon, RM-	Reduced Matrix, N	/15=1viasi	ked Sand	Grains	s. Localion	E PL=Pore Linir	ig, ivi=iviatrix	(.
History	Indicators:		Candy Ola				Indicato	s for Problema	MIC HYORIC (5011S :
	(A1) via a da a (80)		Sandy Gle	yeo Mau	rix (54)		Coas		(AID)	
	Histic Epipedon (A2) Sandy Redox (S5)						Iron-	Nanganese Mas	SSES (F12)	
	SUC (A3)		Stripped M))			Parent Material	(F21)	
Hydroger	n Sulfide (A4)		Dark Surfa	ICE (S7)			Very	Shallow Dark S	urface (F22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	əral (⊢1)		Othe	r (Explain in Rer	marks)	
^{2 cm Mu}	ck (A10)		Loamy Gle	yed Mat	rix (F2)					
Depleted	Below Dark Surface	(A11)		Aatrix (⊢:	3)		3			
I	irk Surface (A12)		Redox Dar	k Surfac	;e(⊢6)		"Indicato	rs of hydrophytic	vegetation	and
Sandy M	ucky Mineral (S1)			Jark Surl	face (F7)	1	wetla	ind hydrology m	ust be prese	ent,
<u>5 cm Mu</u>	cky Peat or Peat (S3)	Redox Dep	pression	s (F8)		unles	s disturbed or p	problematic.	
Restrictive I	Layer (if observed):									
Туре:	N/A									
Depth (in	nches):						Hydric Soil Presen	1?	Yes X	No
Remarks:										
This data for	m is revised from Mid	dwest Regi	onal Supplement V	/ersion 2	2.0 to incl	lude the	NRCS Field Indicator	s of Hydric Soils	, Version 7.	0, 2015
Errata. (http:/	//www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.doc	x)			
HYDROLO	GY									
Wetland Hv	drology Indicators:									
Primary India	cators (minimum of o	no ie roqui	red: check all that :	annly)			Seconda	ry Indicators (mi	inimum of tw	vo required)
Surface '	<u>/ators (minimum or o</u> Water (Δ1)	ile is requi	Water-Stai	ined Lea			<u>Seconda</u> Surf:	ry maicators (mi	(B6)	<u>/o required)</u>
High Wa	iter Table (A2)			nieu Lea Juna (R1	3)		Ouna	age Patterns (B	(100) 110)	
Saturatic	$(\Delta 3)$			tic Plant	3) re (B14)			Reason Water T	able (C2)	
Water M	arke (B1)		Hydrogen	Sulfide (3 (D14) 2dor (C1)	`	DIy~	fieb Burrowe (CS		
Sedimen	arks (DT) at Deposite (R2)			Sunde C Shizoenh) ivina R	oots (C3) Satu	ration Visible on	Aerial Imac	
Drift Der	n Depusits (B2)		OXIGIZED N	of Reduc	red Iron (.0003 (C3) Stur	ted or Stressed	Diante (D1)	
	t or Crust (B4)		Presence 0		tion in Ti	lled Soi		norphic Position		
	osite (B5)		Thin Muck	Surface		lieu Sui		Neutral Test (D	5)	
	on Visible on Aerial Ir	nagen/ (R7	() Gauge or)		- (07) 				0)	
Sparsely	Veretated Concave	Surface (F)Other (Evr	ven Dat	a (D3) Jomarke)					
		Sunace (B								
Field Observ	vations:									
Surface Wate	er Present? Yes	3	No <u>X</u>	Depth (ii	nches): _					
Water lable	Present? Yes	s	No <u>X</u>	Depth (II	nches): _					
Saturation P	resent? Ye	s	No <u>X</u>	Depth (ii	nches): _		Wetland Hydrolo	gy Present?	Yes	No <u>X</u>
(includes cap	pillary tringe)		<u> </u>			<u> </u>				
Describe Red	corded Data (stream	gauge, mo	nitoring well, aeria	I photos,	, previous	s inspec	ctions), if available:			
L										
Remarks:	- 4									
none observe	90									

Project/Site: Clover Valley Road 515-Acre Site			unty: New Albany/ I		Sampling Date:	03/2/2022	
Applicant/Owner:	The New Albany Company			State:	ОН	Sampling Point:	UPU-4
Investigator(s): Eric N	lagy, EMH&T	Section,	Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, te	rrace, etc.): field		Local relief (concav	/e, conv	ex, none):	convex	
Slope (%): 3	Lat: 40.104681°	Long:	-82.709135°			Datum:	
Soil Map Unit Name:	Bennington (BeB)			N	WI classi	fication: None	
Are climatic / hydrolo	gic conditions on the site typical for this time of ye	ear?	Yes X No		(If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly dist	urbed?	Are "Normal Circum	stances	" present?	Yes <u>X</u> No	,
Are Vegetation	, Soil, or Hydrology naturally problen	natic?	(If needed, explain a	any ansv	vers in Re	marks.)	
SUMMARY OF F	FINDINGS – Attach site map showing s	sampli	ng point locatio	ons, tra	ansects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No_X
Remarks:					

	Absolute	Dominant	Indicator				
Tree Stratum (Plot size:) % Cover	Species?	Status	Dominance Test wo	orksheet:		
_ 1				Number of Dominant	Species That		
2				Are OBL, FACW, or	FAC:	0	_(A)
3.				Total Number of Don	ninant Species		
4.				Across All Strata:		2	_(B)
5.				Percent of Dominant	Species That		
		=Total Cover		Are OBL, FACW, or	FAC:	0.0%	(A/B)
Sapling/Shrub Stratum (Plot size:)	-					_
1. Elaeagnus umbellata	20	Yes	FACU	Prevalence Index w	orksheet:		
2.				Total % Cover o	of: Mu	ultiply by:	
3.				OBL species	0 x 1 =	0	_
4.				FACW species 1	10 x 2 =	20	_
5.				FAC species	0 x 3 =	0	-
		=Total Cover		FACU species	95 x 4 =	380	-
Herb Stratum (Plot size:)	-		UPL species	0 x 5 =	0	_
1. Dactylis glomerata	75	Yes	FACU	Column Totals: 1	05 (A)	400	(B)
2. Aster spp.	10	No	FACW	Prevalence Index	= B/A =	3.81	
3.							-
4.				Hydrophytic Vegeta	tion Indicators	s:	
5.				1 - Rapid Test fo	r Hydrophytic \	/egetation	
6.				2 - Dominance T	est is >50%	-	
7.				3 - Prevalence Ir	ndex is ≤3.0 ¹		
8.				4 - Morphologica	I Adaptations ¹	(Provide su	pporting
9.				data in Remar	ks or on a sepa	arate sheet	t)
10.				Problematic Hyd	rophytic Vegeta	ation ¹ (Exp	lain)
	85	=Total Cover		¹ Indicators of hydric s	soil and wetland	d hydrology	/ must
Woody Vine Stratum (Plot size:)	-		be present, unless di	sturbed or prob	ematic.	,
1				Hydrophytic			
2.				Vegetation			
2.		=Total Cover		Vegetation Present? Yes	No	<u>x</u>	

Depth	Matri	x	Redo	x Featur	es			
(inches)	Color (moist)) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/2	100					Loamy/Clayey	
4-10	10YR 4/2	80	10YR 4/6	20	С	PL	Loamy/Clayey	Prominent redox concentrations
Type: C=Co	ncentration, D=[Depletion, RM	I=Reduced Matrix, I	MS=Mas	ked Sand	Grains.	² Location	n: PL=Pore Lining, M=Matrix.
Histosol (nuicators:		Sandy Gla	vod Mat	riv (S4)		Indicato	
Listis En	AI) inadan (A2)		Sandy Gie	yeu wat	nx (34)			
	ipedon (A2)		Sanuy Re	JUX (33) Intriv (86	2)		II0II-	Parant Matorial (E21)
	$\operatorname{Suc}(A3)$		Supped w	1201X (30)			
				ice (57)			Very	
					=rar (F1) wiw (F0)			a (⊏xpiain in Remarks)
	CK (A1U)			eyed Ma	(FIX (F2)			
		ace (A11)		viatrix (F	3)) (FA)		31	
	unia Surrace (A12)	、		K OUITAC	אש (דס) לפפר (ד⊐`			is or hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dark Surf				ace (F7) a (E9)	I	wetta	and nyurology must be present,	
		(33)		pression	5 (FO)		une	ss disturbed of problematic.
Restrictive L	ayer (if observe.	:d):						
		1.						
Type:	N	/A						·• · · ·
Type: _ Depth (in Remarks: This data forr Errata. (http:/	N ches): n is revised from //www.nrcs.usda.	/A Midwest Reg gov/Internet/F	gional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to incl 2p2_0512	lude the M 93.docx)	Hydric Soil Presen	t? Yes X No so f Hydric Soils, Version 7.0, 2015
Type: _ Depth (in Remarks: This data forr Errata. (http:/	N ches): n is revised from //www.nrcs.usda.	/A Midwest Reg gov/Internet/F	gional Supplement \ FSE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the M 193.docx)	Hydric Soil Presen	t? Yes X No sof Hydric Soils, Version 7.0, 2015
Type: _ Depth (in Remarks: This data forr Errata. (http:/	N ches): m is revised from /www.nrcs.usda.	/A Midwest Reg gov/Internet/I	gional Supplement \ SE_DOCUMENTS	/ersion 2 /nrcs142	2.0 to inc 2p2_0512	lude the N 293.docx)	Hydric Soil Presen	t? Yes X No rs of Hydric Soils, Version 7.0, 2015
Type: _ Depth (in Remarks: This data forr Errata. (http:/ IYDROLO Wetland Hyc Primary Indic	N ches): m is revised from /www.nrcs.usda. GY frology Indicato	/A Midwest Reg gov/Internet/I	gional Supplement \ =SE_DOCUMENTS	/ersion / /nrcs142 apply)	2.0 to inc 2p2_0512	lude the N 293.docx)	Hydric Soil Presen	t? Yes X No rs of Hydric Soils, Version 7.0, 2015
Type: _ Depth (in Remarks: This data forr Errata. (http:/ IYDROLO Wetland Hyc Primary Indic Surface V	N ches): m is revised from //www.nrcs.usda. GY frology Indicato ators (minimum Water (A1)	/A Midwest Reg gov/Internet/I rs: <u>of one is requ</u>	gional Supplement V =SE_DOCUMENTS uired; check all that Water-Sta	/ersion 2 /nrcs142 apply) ined Lea	2.0 to incl 2p2_0512	lude the N 293.docx)	Hydric Soil Presen	t? Yes X No rs of Hydric Soils, Version 7.0, 2015
Type: _ Depth (in Remarks: This data forr Errata. (http:/ IYDROLO Wetland Hyc Primary Indic Surface V High Wat	N ches): m is revised from //www.nrcs.usda. GY frology Indicato ators (minimum Nater (A1) ter Table (A2)	/A Midwest Reg gov/Internet/I rs : of one is requ	gional Supplement V =SE_DOCUMENTS uired; check all that Water-Sta Aquatic Fa	/ersion 2 /nrcs142 apply) ined Lea auna (B1	2.0 to inc 2p2_0512	lude the f 293.docx)	Hydric Soil Presen	t? Yes X No rs of Hydric Soils, Version 7.0, 2015
Type: _ Depth (in Remarks: This data forr Errata. (http:/ IYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturatio	N ches): m is revised from /www.nrcs.usda. GY frology Indicato ators (minimum Nater (A1) ter Table (A2) n (A3)	/A Midwest Reg gov/Internet/I rs: of one is requ	gional Supplement V =SE_DOCUMENTS uired; check all that Water-Sta Aquatic Fa Aquatic Fa	/ersion 2 /nrcs142 apply) ined Lea auna (B1	2.0 to inc 2p2_0512 ves (B9) 3) s (B14)	lude the f	Hydric Soil Presen	t? Yes X No rs of Hydric Soils, Version 7.0, 2015
Type: _ Depth (in Remarks: This data forr Errata. (http:/ Primary Indic Surface V High Wat Saturatio Water Ma	N ches): m is revised from /www.nrcs.usda. GY irology Indicato ators (minimum Water (A1) ter Table (A2) n (A3) arks (B1)	/A Midwest Reg gov/Internet/I rs: of one is requ	gional Supplement V -SE_DOCUMENTS uired; check all that Water-Sta Aquatic Fa True Aqua Hvdrogen	/ersion 2 /nrcs142 apply) ined Lea auna (B1 titc Plant Sulfide (2.0 to inc 2p2_0512 2p2_0512 2p2_0512 2p2_0512 2p3 2p3 3) 3) 3) 3) 5 (B14) 20dor (C1)	lude the M 193.docx)	Hydric Soil Presen	t? Yes X No rs of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requir ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Type: _ Depth (in Remarks: This data forr Errata. (http:/ IYDROLO Wetland Hyo Primary Indic Surface V High Wat Saturatio Water Ma Sediment	N ches): m is revised from /www.nrcs.usda. GY irology Indicato ators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	/A Midwest Reg gov/Internet/I rs: of one is requ	gional Supplement \ =SE_DOCUMENTS uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	2.0 to incl 2p2_0512 2p2_0512 2p2_0512 2p2_0512 2p3 2p3 3) s (B14) 2dor (C1) eres on I	lude the M 193.docx)	Hydric Soil Presen	t? Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requir ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Type: _ Depth (in Remarks: This data forr Errata. (http:// IYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sediment Drift Dep	N ches): m is revised from //www.nrcs.usda. GY frology Indicato ators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	/A Midwest Reg gov/Internet/I rs: of one is requ	gional Supplement \ =SE_DOCUMENTS uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	/ersion 2 /nrcs142 apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	2.0 to inc 2p2_0512 vves (B9) 3) s (B14) Odor (C1) eres on I ced Iron (lude the M 293.docx)	Hydric Soil Presen	t? Yes X No s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requir ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Type: _ Depth (in Remarks: This data forr Errata. (http:/ IYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturatio Water Ma Sediment Drift Depu Algal Mat	N ches): m is revised from /www.nrcs.usda. GY frology Indicato ators (minimum Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	/A Midwest Reg gov/Internet/I	gional Supplement V SE_DOCUMENTS uired; check all that Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Irc	/ersion 2 /nrcs142 ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	2.0 to inc 2p2_0512 2p2_0512 2p2_0512 2p2_0512 2p3 3) s (B14) 2dor (C1) eres on I ced Iron (tion in Ti	lude the M 293.docx)	Hydric Soil Presen	t? Yes X No rs of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two requir ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
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Project/Site: Clover	Valley Road 515-Acre Site	City/County: New Albany/	Licking	Sampling Date:	04/22/2022
Applicant/Owner:	The New Albany Company		State: OH	Sampling Point:	UPV-1
Investigator(s): Bryar	Lombard, EMH&T	Section, Township, Range:	T. 2 N; R. 15 W		
Landform (hillside, te	errace, etc.): farm field	Local relief (conca	ve, convex, none):	convex	
Slope (%): 5	Lat: <u>40.102486°</u>	Long: <u>-82.713862°</u>		Datum:	
Soil Map Unit Name:	Bennington (BeB)		NWI classi	fication: None	
Are climatic / hydrolo	ogic conditions on the site typical for this time of ye	ear? Yes <u>X</u> No) (If no, exp	plain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circun	nstances" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrology naturally probler	natic? (If needed, explain	any answers in Re	marks.)	
SUMMARY OF I	FINDINGS – Attach site map showing	sampling point locati	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes YesX Yes	No X No No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:					

			Absolute	Dominant	Indicator			
Tree Stratum	(Plot size:	_) _	% Cover	Species?	Status	Dominance Test worksheet:		
1						Number of Dominant Species That		
2.						Are OBL, FACW, or FAC:	0	(A)
3.						Total Number of Dominant Species		
4.						Across All Strata:	1	(B)
5.						Percent of Dominant Species That		_
				=Total Cover		Are OBL, FACW, or FAC:	0.0%	(A/B)
Sapling/Shrub Strat	um (Plot size:)				-		-
1.						Prevalence Index worksheet:		
2.						Total % Cover of: Mu	Itiply by:	
3.						OBL species 0 x 1 =	0	-
4.						FACW species 0 x 2 =	0	-
5.						FAC species 0 x 3 =	0	-
				=Total Cover		FACU species 0 x 4 =	0	-
Herb Stratum	(Plot size:) –				UPL species 100 x 5 =	500	-
1. Zea mays		_^	100	Yes	UPL	Column Totals 100 (A)	500	- (B)
2.						Prevalence Index = B/A =	5.00	_``
3.								-
4.						Hydrophytic Vegetation Indicators	i:	
5.						1 - Rapid Test for Hydrophytic V	egetation	
6.						2 - Dominance Test is >50%	-3	
7						3 - Prevalence Index is < 3.01		
8						4 - Morphological Adaptations ¹	Provide su	oportina
9						data in Remarks or on a sepa	rate sheet)	
10						Problematic Hydrophytic Vegeta	, ition ¹ (Expl	ain)
			100	=Total Cover				
Woody Vine Stratur	<u>n</u> (Plot size:)	100			be present, unless disturbed or prob	l nydrology Iematic.	must
1.						Hydrophytic		
2.						Vegetation		
				=Total Cover		Present? Yes No	x	
Remarks: (Include	photo numbers here or on	a separat	e sheet.)					
Fallow Corn Field		•	.,					

Denth	ription: (Describe to Matrix	the depth	needed to doc	v Featur		tor or c	confirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)		Type ¹		Texture	Remarks
0-12	101R 3/2	90	101R 5/4	10	<u> </u>		Loamy/Clayey	
<u>1</u>							2,	
	oncentration, D=Deplet	lion, RM=R	educed Matrix, I	NS=Masi	ked Sand	Grains		: PL=Pore Lining, M=Matrix.
	(A1)		Sandy Cla	wod Mot	riv (84)		Indicator	t Proirie Podey (A16)
	(AT) Ninodon (A2)		Sandy Gie	eyeu iviau dox (SE)	nx (34)		Coas	
	npedon (Az)		Sality Re	uux (33) Actrix (86	2		IIOI-r	Parant Material (E21)
	siic (A3) n Sulfida (A4)		Suippeu k	1200 (87))			Shellow Dark Surface (E22)
				ace (37) Joky Ming	arol (E1)		Very	(Explain in Remarka)
	Layers (AD)			Nod Mot				
	ick (ATU) I Balaw Dark Surface (A 1 1 \	Loany Gr		ווג (רב) אי			
Depieted	r Below Dark Surface (A	ATT)	Depieted I	rk Surfaa	3) 20 (E6)		³ Indicator	a of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)			Dark Sur	face (E7)		wetla	and hydrology must be present
	ideky Milleral (31)		Depieted I		ace (i 7) e (E8)		weua	es disturbed or problematic
O ciri wu				p10331011.	3 (1 0)		unes	
Tuno	Layer (IT observed):							
Type	IN/A		_				Ukrdaia Call Daaaant	
Deptii (ii	iciles).		_				nyunc son Fresent	
Remarks:								
I his data for	m is revised from Midv	vest Region	al Supplement	Version 2	2.0 to incl	ude the	NRCS Field Indicators	s of Hydric Soils, Version 7.0, 2015
Errata. (http:/	//www.nrcs.usda.gov/li	nternet/FSE	_DOCUMENTS	5/nrcs142	2p2_0512	93.docx	()	
HTUROLU	GT							
Wetland Hy	drology Indicators:						0	
Primary India	cators (minimum of one	<u>e is require</u>	d; check all that	appiy)			<u>Secondar</u>	<u>y indicators (minimum of two required)</u>
	water (A1)			ined Lea	ves (B9)			
				auna (Bi	3) - (D14)			age Pallerns (BTU)
	on (A3) orko (B1)			Sulfide C	S (B14) Sdar (C1)		Dry-8	
	arks (DT) at Doposite (P2)			Suinue (iving D	Clay	ration Visible on Aprial Imagon (CQ)
Sedimen	n Depusits (D2)		Oxiuizeu r	of Poduc			Sturt	ation visible on Aerial Imagery (C9)
	t or Crust (B4)		Presence		tion in Ti	U4) llad Sail		norphic Position (D2)
	oeite (B5)		Thin Muck					Neutral Test (D5)
Inundatio	osiis (65) on Visible on Aerial Im:	ageny (B7)	Gauge or		a (D0)			
Sparsely	Veretated Concave S	urface (B8	Other (Evi	vven Dau Nain in R	a (D3) Iomarke)			
	vegetated Collcave C				emarks)			
Field Obser	vations:		NI- M		ncheel.			
Field Obser	vations: er Present? Yes		No <u>X</u>	Depth (II				
Field Obser Surface Wate Water Table	vations: er Present? Yes Present? Yes			Depth (ii Depth (ii	nches): _ nches): _		Wotland Under La	
Field Obserr Surface Wate Water Table Saturation Plutes	vations: er Present? Yes Present? Yes resent? Yes		No X No X No X	Depth (ii Depth (ii Depth (ii	nches): _ nches): _ nches): _		Wetland Hydrolog	y Present? Yes <u>No X</u>
Field Obserr Surface Wate Water Table Saturation Pr (includes cap	vations: er Present? Yes Present? Yes resent? Yes pillary fringe) certed Date (ctrace a			Depth (ii Depth (ii Depth (ii	nches): _ nches): _ nches): _		Wetland Hydrolog	gy Present? Yes <u>No X</u>
Field Obsern Surface Wate Water Table Saturation Pri (includes cap Describe Rec	vations: er Present? Yes Present? Yes resent? Yes billary fringe) corded Data (stream g	auge, mon	No X No X No X itoring well, aeria	Depth (ii Depth (ii Depth (ii al photos	nches): _ nches): _ nches): _	s inspec	Wetland Hydrolog tions), if available:	jy Present? Yes <u>No X</u>
Field Obsern Surface Wate Water Table Saturation Pri (includes cap Describe Real Remarks:	vations: er Present? Yes Present? Yes resent? Yes Dillary fringe) corded Data (stream g	auge, moni	No X No X No X	Depth (ii Depth (ii Depth (ii	nches): _ nches): _ nches): _	s inspec	Wetland Hydrolog tions), if available:	jy Present? Yes <u>No X</u>
Field Obser Surface Wate Water Table Saturation Pr (includes cap Describe Red Remarks:	vations: er Present? Yes Present? Yes resent? Yes pillary fringe) corded Data (stream g	auge, mon	No X No X No X	Depth (ii Depth (ii Depth (ii	nches): _ nches): _ nches): _	s inspec	Wetland Hydrolog	gy Present? Yes No _X

Project/Site: Clover Valley Road 515-Acre Site			unty: New Albany/	Licking		Sampling Date:	05/20/2022
Applicant/Owner:	The New Albany Company			State:	ОН	Sampling Point:	UPZ-1
Investigator(s): Bryan	Lombard, EMH&T	Section,	Township, Range:	T. 2 N;	R. 15 W		
Landform (hillside, te	rrace, etc.): farm field		Local relief (concav	ve, conve	ex, none):	convex	
Slope (%): 3	Lat: 40.097134°	Long:	-82.729473°			Datum:	
Soil Map Unit Name:	Bennington (BeB)			N	IWI classi	fication: None	
Are climatic / hydrolo	gic conditions on the site typical for this time of	f year?	Yes <u>X</u> No		(If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly d	listurbed?	Are "Normal Circum	stances	" present?	Yes <u>X</u> No	,
Are Vegetation	, Soil, or Hydrologynaturally prob	lematic?	(If needed, explain a	any ansv	vers in Re	marks.)	
SUMMARY OF	-INDINGS – Attach site map showin	g sampli	ing point location	ons, tra	ansects	, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No_X
Remarks:					

			Absolute	Dominant	Indicator			
Tree Stratum	(Plot size:	_) _	% Cover	Species?	Status	Dominance Test worksheet:		
1						Number of Dominant Species That		
2.						Are OBL, FACW, or FAC:	0	(A)
3.						Total Number of Dominant Species		
4.						Across All Strata:	1	(B)
5.						Percent of Dominant Species That		_
				=Total Cover		Are OBL, FACW, or FAC:	0.0%	(A/B)
Sapling/Shrub Strat	um (Plot size:)				-		-
1.						Prevalence Index worksheet:		
2.						Total % Cover of: Mu	Itiply by:	
3.						OBL species 0 x 1 =	0	-
4.						FACW species 0 x 2 =	0	-
5.						FAC species 0 x 3 =	0	-
				=Total Cover		FACU species 0 x 4 =	0	-
Herb Stratum	(Plot size:) –				UPL species 100 x 5 =	500	-
1. Zea mays		_^	100	Yes	UPL	Column Totals 100 (A)	500	- (B)
2.						Prevalence Index = B/A =	5.00	_``
3.								-
4.						Hydrophytic Vegetation Indicators	i:	
5.						1 - Rapid Test for Hydrophytic V	egetation	
6.						2 - Dominance Test is >50%	-3	
7						3 - Prevalence Index is < 3.01		
8						4 - Morphological Adaptations ¹	Provide su	oportina
9						data in Remarks or on a sepa	rate sheet)	
10						Problematic Hydrophytic Vegeta	, ition ¹ (Expl	ain)
			100	=Total Cover				
Woody Vine Stratur	<u>n</u> (Plot size:)	100			be present, unless disturbed or prob	l nydrology Iematic.	must
1.						Hydrophytic		
2.						Vegetation		
				=Total Cover		Present? Yes No	x	
Remarks: (Include	photo numbers here or on	a separat	e sheet.)					
Fallow Corn Field		•	.,					

Profile Desc	ription: (Describe	to the depth	n needed to doci	ument ti	he indica	ator or o	confirm the a	bsence of indicato	rs.)	
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	re	Remarks	
0-12	10YR 3/2	100								
17						. <u> </u>	2			
	ncentration, D=Dep	letion, RM=F	Keduced Matrix, N	/IS=Mas	ked Sand	Grains	3.	Location: PL=Pore	Lining, M=Matr	IX.
Hydric Soll I	ndicators:		0				·	ndicators for Prop	iematic Hydric	3011S :
	(A1)		Sandy Gle	yed Mat	rix (S4)		-		200X (A16)	
	ipedon (A2)		Sandy Red	10x (S5)			-	Iron-Manganese	Masses (F12)	
	stic (A3)		Stripped M	latrix (St	5)		-	Red Parent Mat	erial (F21)	-
Hydroger	n Sulfide (A4)		Dark Surfa	ice (S7)			_	Very Shallow Da	ark Surface (F2:	2)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		_	Other (Explain ii	n Remarks)	
^{2 cm Mu}	ck (A10)		Loamy Gle	eyed Mat	rix (F2)					
Depleted	Below Dark Surface	e (A11)	Depleted M	Aatrix (F	3)					
Thick Da	rk Surface (A12)		Redox Dai	k Surfac	æ (F6)		5	Indicators of hydrop	hytic vegetation	1 and
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7)	1		wetland hydrolog	gy must be pres	ent,
5 cm Mud	cky Peat or Peat (S3	5)	Redox Dep	pression	s (F8)			unless disturbed	l or problematic	
Restrictive L	ayer (if observed):									
Туре:	N/A									
Depth (in	ches):		_				Hydric Soil	Present?	Yes	<u>No X</u>
Remarks:										
This data form	m is revised from Mi	dwest Regio	nal Supplement \	/ersion 2	2.0 to inc	lude the	NRCS Field I	Indicators of Hydric	Soils, Version 7	′.0, 201 5
Errata. (http:/	//www.nrcs.usda.gov	/Internet/FS	E_DOCUMENTS	/nrcs142	2p2_0512	293.doc	x)			
HYDROLO	GY									
Wetland Hyp	Irology Indicators									
Primary India	ators (minimum of o	no ie roquire	d: check all that	annly)			c	Secondary Indicator	e (minimum of t	wo required)
Surface V	Nator (A1)	ine is require	Water-Sta	ined Lea			<u>`</u>	Surface Soil Cra	s (minimum or (acks (B6)	wo required)
High Wat	$\frac{1}{2} \left(\frac{1}{2} \right)$			una (R1	3) 3)		-	Drainage Patter	ne (B10)	
Saturatio	n (43)			tic Plant	5) e (B14)		-	Drainage r atter	ter Table (C2)	
Water M	n (7.5) arke (B1)		Hvdrogen	Sulfido (3 (D14) Ddor (C1)	`	-	Dry-Season wa		
Sediment	t Denosite (B2)			Cullue (Phizoenh		/ iving R	Poots (C3)	Saturation Visib	s (CC) le on Aerial Ima	
Drift Dep	neite (R3)		Presence	of Reduc	eres on i ed Iron (-wing (\ (C4)	- (00) (00)	Stunted or Stres	sed Plants (D1)
Algal Mat	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soi		Geomorphic Por	sition (D2)	,
	neite (B5)		Thin Muck	Surface				EAC-Neutral Te	st (D5)	
	n Visible on Aerial Ir	nagen/ (R7)	Gauge or l		a (DQ)		-		3((00)	
Sparsely	Vegetated Concave	Surface (B8	Other (Evr.)	ven bat	emarks)					
					cinarko)					
Field Observ	ations:									
Surface Wate	er Present? Ye	s		Depth (I	nches): -					
water lable	Present? Ye	s		Depth (I	ncnes): _				• •	
Saturation Pr	resent? Ye	s	No <u>X</u>	Depth (I	nches):_		Wetland	Hydrology Present	? Yes	<u>No X</u>
(includes cap	lillary fringe)									
Describe Rec	corded Data (stream	gauge, mon	ntoring well, aeria	II photos	, previou	s inspec	cuons), it avail	adle:		
Domostra										
Remarks:										
1										

Primary Headwater Habitat Field Evaluation Form HHEI Score (sum of metrics 1+2+3)	53
SITE NAME/LOCATION Clover Valley Road Site Stream 1 (Blacklick Creek) SITE NUMBER	62 structions
1. SUBSTRATE (Estimate percent of every type present). Check ONLY two predominant substrate TYPE boxes. (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B TYPE PERCENT TYPE BLDR SLABS [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BUDER (>256 mm) [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BEDROCK [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BEDROCK [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BEDROCK [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BEDROCK [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BEDROCK [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BEDROCK [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BEDROCK [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B BEDROCK [16 pts] Image: Significant substrate types found (Max of 8). Final metric score is sum of boxes A & B SAND (<2 mm) [6 pts]	HHEI Metric Points Substrate Max = 40 8 A + B
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] 5 cm - 10 cm [15 pts] > 22.5 - 30 cm [30 pts] < 5 cm [5pts]	Pool Depth Max = 30
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measurements) (Check ONLY one box): □ > 4.0 meters (> 13') [30 pts] □ > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] □ > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] □ > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS AVERAGE BANKFULL WIDTH (meters)	Bankfull Width Max=30 20
This information <u>must</u> also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* RIPARIAN WIDTH L R FLOODPLAIN QUALITY (Per Bank) L R Wide >10m Mature Forest, Wetland Moderate 5-10m Immature Forest, Shrub or Old Field Narrow <5m	op - nt)
COMMENTS	20 π)

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QHEI PERFORMED? Yes	No QHEI Score (If Yes, Attack	n Completed QHEI form)
DOWNSTREAM DESIGNATED	USE(S)	
WWH Name: Blacklick Creek	Dis	stance from Evaluated Stream
CWH Name:	Dis	stance from Evaluated Stream
MAPPING: ATTACH COPIES OF	MAPS. INCLUDING THE ENTIRE WATERSHED AREA	CLEARLY MARK THE SITE LOCATION.
USGS Quadranole Name:	NRCS Soil Map Page:	NRCS Soil Map Stream Order:
County:	Township/City:	
MISCELLANEOUS		
Base Flow Conditions? (Y/N): N	Date of last precipitation:	Quantity:
Photo-documentation Notes:		
Elevated Turbidity?(Y/N): N	Салору (% орел): 10	
Were samples collected for waterchemi	stry?(Y/N): N Lab Sample # or ID (at	tach results):
Field Measures:Temp (*C) Dis	solved Oxvaen (ma/l) pH (S.U.)	Conductivity (umbos/cm)
is the sampling reach representative of t	ne stream (T/N) - Thot, explain.	anna an anna 1996 an 2016 an 20
· · · · · · · · · · · · · · · · · · ·		
Additional comments/description of poliu	tion impacts:	
	BIOLOGICAL OBSERVATIONS	
	(Record all observations below)	
Fish Observed? (Y/N) N Species	observed (if known);	
Frogs or Tadpoles Observed? (Y/N) N	Species observed (if known):	
Salamanders Observed? (Y/N) N S	Species observed (if known);	
Aquatic Macroinvertebrates Observed?	(Y/N) <u>N</u> Species observed (if known):	
Comments Regarding Biology: NO bio	ogy observed	
DRAWING AND NARF	ATIVE DESCRIPTION OF STREAM R	EACH (This must be complete
Include important landmarks a	nd other features of interest for site evaluation and a	narrative description of the stream's locat
2	m	
62	(h)	C
× 1		The
	The second secon	4
wo		W
The "		1
L GD	12 1	
E P	LP Chi	EP

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Page 2

Primary Headwater Habitat Field Evaluation Form HHEI Score (sum of metrics 1+2+3)	35
SITE NAME/LOCATION <u>Clover Valley Road Site Stream 2</u> SITE NUMBER	0.1 tructions
1. SUBSTRATE (Estimate percent of every type present). Check ONLY two predominant substrate TYPE boxes. (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B TYPE PERCENT TYPE PERCENT BLDR SLABS [16 pts] []] []] []] []] BOULDER (>256 mm) [16 pts] []] []] []] []] BEDROCK [16 pts] []] []] []] []] COBBLE (65-256 mm) [12 pts] []] []] []] []] CBRAVEL (2-64 mm) [9 pts] 20 []] MUCK [0 pts] []] SAND (<2 mm) [6 pts]	HHEI Metric Points Substrate Max = 40 15 A + B
Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): 30 centimeters [20 pts] 5 cm - 10 cm [15 pts] 22.5 - 30 cm [30 pts] 2 5 cm [5pts] 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0pts] COMMENTS MAXIMUM POOL DEPTH (centimeters): 4	Pool Depth Max = 30
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] ✓ > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (≤ 3' 3") [5 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] AVERAGE BANKFULL WIDTH (meters) COMMENTS AVERAGE BANKFULL WIDTH (meters)	Bankfull Width Max=30 15
This information <u>must</u> also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank) L R (Per Bank) L R Vide >10m Mature Forest, Wetland Conservation Tillage Moderate 5-10m Immature Forest, Shrub or Old Field Urban or Industrial Narrow <5m	ıp - 1t)
✓ None 1.0 2.0 3.0 0.5 1.5 2.5 >3 STREAM GRADIENT ESTIMATE Flat (0.5 th/100 th) Flat to Moderate Moderate (2 th/100 th) ✓ Moderate to Severe Severe (10 th/100 th)	λ0 π)

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QHEI PERFORMED? Yes No QH	HEI Score (If Yes, Attach Completed QHEI form)
DOWNSTREAM DESIGNATED USE(S)	Distance from Evaluated Stream
CWH Name: Distance from Evaluated Stream	
EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INC	CLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
JSGS Quadrangle Name:	NRCS Soil Map Page:NRCS Soil Map Stream Order:
County:	Township/City:
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Date of las	st precipitation: Quantity:
Photo-documentation Notes:	
Elevated Turbidity?(Y/N): <u>N</u> Canopy (%	6 open): 10
Were samples collected for water chemistry? (Y/N)): N Lab Sample # or ID (attach results):
Field Measures:Temp (°C) Dissolved Ox	cygen (mg/l) pH (S.U.) Conductivity (umhos/cm)
is the sampling reach representative of the stream	(Y/N) Y If not, explain:
BIG	
BIC	(Record all observations below)
Fish Observed? (Y/N) N Species observed) (if known):
Frogs or Tadpoles Observed? (Y/N) N Speci	ies observed (if known):
Salamanders Observed? (Y/N) N Species ob	oserved (if known):
Aquatic Macroinvertebrates Observed? (Y/N) <u>N</u>	Species observed (if known):
Comments Regarding Biology: no biology obs	served
DRAWING AND NARRATIVE	DESCRIPTION OF STREAM REACH (This must be completed)
Include important landmarks and other fea	atures of interest for site evaluation and a narrative description of the stream's location
EMERGENT	$M \mid l \mid \alpha$
A LI	
L' STREA	m 2114 (X
WETLAND L	The way
w . V.o	CARL
* at rep	X - X + 3 0 -
EMERGENT	
-	

N

BLACK

Primary Headwater Habitat Field Evaluation Form HHEI Score (sum of metrics 1+2+3) 57
SITE NAME/LOCATION Clover Valley Road Site Stream 3 (Duncan Run) SITE NUMBER
1. SUBSTRATE (Estimate percent of every type present). Check ONL Y two predominant substrate TYPE boxes. (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B HHEI
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Pool Depth (Max = 3) > 30 centimeters [20 pts] Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] > 10 - 22.5 cm [25 pts] Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] COMMENTS Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] COMMENTS Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] COMMENTS Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts] Image: Storm = 10 cm [15 pts]
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measurements) (Check ONLY one box): Bankfu > 4.0 meters (>13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Bankfu > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (≤ 3' 3") [5 pts] Max=30 > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] AVERAGE BANKFULL WIDTH (meters) 3
This information mustalso be completed
RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank) L R (Per Bank) L R V Wide >10m Mature Forest, Wetland Conservation Tillage Moderate 5-10m V Immature Forest, Shrub or Old Field Urban or Industrial Narrow <5m
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (intermittent) Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) COMMENTS
STREAM GRADIENT ESTIMATE ✓ Flat (0.5 th100 th)

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ADDITIONAL STREAM INFORMATION (Th	is Information Must Also be Completed):
QHEI PERFORMED? Yes No QHEI Score	(If Yes, Attach Completed QHEI form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Duncan Creek CWH Name:	Distance fromEvaluated Stream Distance fromEvaluated Stream Distance fromEvaluated Stream
MAPPING: ATTACH COPIES OF MAPS. INCLUDING THE EN	TIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
USGS Quadrangle Name: Jersey NRC	:S Soil Map Page:NRCS Soil Map Stream Order:
County: Licking Town	iship/City:
MISCELLANEOUS	
Base Flow Conditions? (Y/N):_N Date of last precipitation: _	Quantity:
Photo-documentation Notes:	
Elevated Turbidity?(Y/N): <u>N</u> Canopy (% open): 0	
Were samples collected for water chemistry? (Y/N): <u>N</u>	Lab Sample # or ID (attach results):
Field Measures:Temp (*C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (umhos/cm)
Is the sampling reach representative of the stream (Y/N) \underline{Y} . If (not, explain:
BIOLOGICAL OBS (Record all observed? (Y/N) N Species observed (if known): Frogs or Tadpoles Observed? (Y/N) N Species observed (if known): Salamanders Observed? (Y/N) N Species observed (if known): Acutation Macroality adapted to the provided of the provide	ERVATIONS ations below) mown):
Aquatic Macroinvertebrates Observed / (YN) - Species observed	9 Yea (1 kilowi)
Comments Regarding Biology: TIC Diology Observed	
DRAWING AND NARRATIVE DESCRIPTIO	N OF STREAM REACH (This must be completed) for site evaluation and a narrative description of the stream's location

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Background Information

Name: Brvan Lombard	
Date:	
4/14/2022	
Address:	
5500 New Albany Road, Columbus, Ohio 43054	
Phone Number: (614) 775-4517	
e-mail address:	
blombard@emht.com	
Name of Wetland: Wetland K	
Vegetation Communit(ies): Forested	
HGM Class(es): PFO	
Location of Wetland: include map, address, north arrow, landmarks, distances, road	s, etc.
See Delineation Map	
Lat/Long or UTM Coordinate	40.101283°; -82.722655°
USGS Quad Name	Jersey, Ohio Quad
County	Licking
Township	Jersey
Section and Subsection	
Hydrologic Unit Code	05060001-15-03
Site Visit	
National Wetland Inventory Map	4/14/2022
Ohio Wetland Inventory Map	4/14/2022 None
	4/14/2022 None
Soil Survey	4/14/2022 None Web Soil Survey

Name of Wetland: Wetland K		
Wetland Size (acres, hectares):		0.2 acre
Sketch: Include north arrow, relationship with other surface waters, vegetation zone	es, etc.	
See Delineation Map.		
Comments, Narrative Discussion, Justification of Category Changes:		
NA		
Final score : 30	Category:	1 or 2 gray zono
	U J -	i ui z yray zune

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	x	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human- induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.		x
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	x	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		x
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		x
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		x

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), <u>http://www.dnr.state.oh.us/dnap</u>. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	VO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland.	NO Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland	NO Go to Que: tion 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea, Lythrum salicaria,</i> or <i>Phragmites australis,</i> or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
Z	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	NO Go to Question 8b

8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status.	NO Seto Question 9a
		Go to Question 9a	
9a	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 10	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	YES Wetland should be evaluated for possible Category 3 status	NO Complete Quantitative Rating
	Montgomery, Van Wert etc.).	Complete Quantitative Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.



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1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts
	and of highest quality

Category 1 or 2 gray zone

End of Quantitative Rating. Complete Categorization Worksheets.

30

	circle			
		answer or		
		insert	Result	
		score		
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.	
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.	
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.	
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.	
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.	
	Question 6. Bogs	YES NO	If yes, Category 3.	
	Question 7. Fens	YES NO	If yes, Category 3.	
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.	
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3	
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 10. Oak Openings	YES NO	If yes, Category 3	
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
Quantitative Rating	Metric 1. Size	1	2	
	Metric 2. Buffers and surrounding land use	8	9	
	Metric 3. Hydrology	6	15	
	Metric 4. Habitat	8	23	
	Metric 5. Special Wetland Communities	0	23	
	Metric 6. Plant communities, interspersion, microtopography	7	30	
	TOTAL SCORE	30	Category based on score breakpoints Category 1 or 2 gray zone	

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one	\wedge	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over- categorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Categon 3 status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the <i>"gray zone"</i> for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1- 54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to betegeny as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.



End of Ohio Rapid Assessment Method for Wetlands.

Background Information

Name: Brvan Lombard	
Date:	
4/14/2022	
Address:	
5500 New Albany Road, Columbus, Ohio 43054	
Phone Number: (614) 775-4517	
e-mail address:	
blombard@emht.com	
Name of Wetland: Wetland L	
Vegetation Communit(ies): Forested	
HGM Class(es): PFO	
Location of Wetland: include map, address, north arrow, landmarks, distances,	roads, etc.
See Delineation Map	
Lat/Long or UTM Coordinate	
	40.100689*;-82.722583*
County	Jersey, Ohio Quad
	Jersey, Ohio Quad
Township	Jersey, Ohio Quad Licking Jersey
Township Section and Subsection	Jersey, Ohio Quad Licking Jersey
Township Section and Subsection Hydrologic Unit Code	Jersey, Ohio Quad Licking Jersey Jersey 05060001-15-03
Township Section and Subsection Hydrologic Unit Code Site Visit	Jersey, Ohio Quad Licking Jersey Jersey 05060001-15-03 4/14/2022
Township Section and Subsection Hydrologic Unit Code Site Visit National Wetland Inventory Map	Jersey, Ohio Quad Licking Jersey 05060001-15-03 4/14/2022 PFO1C
Township Section and Subsection Hydrologic Unit Code Site Visit National Wetland Inventory Map Ohio Wetland Inventory Map	Jersey, Ohio Quad Licking Jersey 05060001-15-03 4/14/2022 PFO1C
Township Section and Subsection Hydrologic Unit Code Site Visit National Wetland Inventory Map Ohio Wetland Inventory Map Soil Survey	Jersey, Ohio Quad Licking Jersey 05060001-15-03 4/14/2022 PFO1C Web Soil Survey

Name of Wetland: Wetland L	
Wetland Size (acres, hectares):	1.15 acre
Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc.	
See Delineation Map.	
Comments. Narrative Discussion. Justification of Category Changes:	
NA	
Final score : 54Category:	2

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	x	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human- induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.		x
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	x	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		x
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		x
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		x

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), <u>http://www.dnr.state.oh.us/dnap</u>. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	VO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland.	NO Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland	NO Go to Que: tion 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea, Lythrum salicaria,</i> or <i>Phragmites australis,</i> or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
Z	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	NO Go to Question 8b

8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status.	NO Seto Question 9a
		Go to Question 9a	
9a	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 10	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	YES Wetland should be evaluated for possible Category 3 status	NO Complete Quantitative Rating
	Montgomery, Van Wert etc.).	Complete Quantitative Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: Suppliers Site Wetland L



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1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts
	and of highest quality

Category 2

End of Quantitative Rating. Complete Categorization Worksheets.

51

	circle			
		answer or		
		insert	Result	
		score		
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.	
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.	
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.	
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.	
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.	
	Question 6. Bogs	YES NO	If yes, Category 3.	
	Question 7. Fens	YES NO	If yes, Category 3.	
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.	
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3	
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 10. Oak Openings	YES NO	If yes, Category 3	
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
Quantitative Rating	Metric 1. Size	2	2	
	Metric 2. Buffers and surrounding land use	8	10	
	Metric 3. Hydrology	16	26	
	Metric 4. Habitat	11	37	
	Metric 5. Special Wetland Communities	0	37	
	Metric 6. Plant communities, interspersion, microtopography	14	51	
	TOTAL SCORE	51	Category based on score breakpoints Category 2	

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one	\wedge	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over- categorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Categon 3 status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the <i>"gray zone"</i> for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1- 54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to outegory as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.



End of Ohio Rapid Assessment Method for Wetlands.

Background Information

Name: Bryan Lombard	
Date: //15/2022 and 2/0/2022	
4/15/2022 and 5/9/2022	
Address:	
Phone Number:	
(614) 775-4517	
e-mail address: blombard@emht.com	
Name of Wetland: Wetland R	
Vegetation Communit(ies):	
HGM Class(es):	
PFO Location of Wetland: include map, address, north arrow, landmarks, distances, roa	ds, etc.
See Delineation Map	
Lat/Long or UTM Coordinate	40.104640°; -82.711724°
USGS Quad Name	Jersey, Ohio Quad
County	
Township	LICKING
Section and Subsection	Jersey
Hydrologic Unit Code	05060001-15-03
Site Visit	3/9/2022 & 4/15/2022
National Wetland Inventory Map	PFO1C
Ohio Wetland Inventory Map	
Soil Survey	Web Soil Survey
Delineation report/map	EMH&T. May 2022

Name of Wetland: Wetland R	
Wetland Size (acres, hectares):	5.53 acres
Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc.	1
See Delineation Map.	
Comments, Narrative Discussion, Justification of Category Changes:	
NA	
Final score : 54 Category:	2

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	x	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human- induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.		x
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	x	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		x
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		x
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		x

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), <u>http://www.dnr.state.oh.us/dnap</u>. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	VO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland.	NO Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland	NO Go to Que: tion 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea, Lythrum salicaria,</i> or <i>Phragmites australis,</i> or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
Z	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	NO Go to Question 8b

8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status.	NO Seto Question 9a
		Go to Question 9a	
9a	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 10	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	YES Wetland should be evaluated for possible Category 3 status	NO Complete Quantitative Rating
	Montgomery, Van Wert etc.).	Complete Quantitative Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: Suppliers Site Wetland R

Rater(s): Eric Nagy, EMH&T



last revised 1 February 2001 jjm



54

Category 2

End of Quantitative Rating. Complete Categorization Worksheets.

2

3

of marginal quality

and of highest quality

Present in moderate amounts, but not of highest quality or in small amounts of highest quality

Present in moderate or greater amounts

		circle		
		ans	swer or	
		i	nsert	Result
		S	core	
Narrative Rating	Question 1 Critical Habitat	YES	NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES	NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland		NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES	NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES	NO	If yes, Category 1.
	Question 6. Bogs	YES	NO	If yes, Category 3.
	Question 7. Fens	YES	NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES	NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES	NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES	NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES	NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES	NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES	NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO		If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	3 5		3
	Metric 2. Buffers and surrounding land use			8
	Metric 3. Hydrology	15.5		15.5
	Metric 4. Habitat		14.5	14.5
	Metric 5. Special Wetland Communities	0		36
	Metric 6. Plant communities, interspersion, microtopography	18		54
	TOTAL SCORE	54		Category based on score breakpoints Category 2

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one	\wedge	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over- categorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Categon 3 status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1- 54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to beteomy as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.



End of Ohio Rapid Assessment Method for Wetlands.

Background Information

Name: Brvan Lombard	
Date:	
3/09/2022	
Affiliation:	
5500 New Albany Road, Columbus, Ohio 43054	
Phone Number:	
(614) 775-4517	
e-mail address:	
Name of Wetland: we do a lo	
Vegetetien Communit(inc)	
Forested/Emergent	
HGM Class(es):	
PFO/PEM	
Location of Wetland: include map, address, north arrow, landmarks, dis	stances, roads, etc.
See Delineation Map	
Lat/Long or UTM Coordinate	40.104620°; -82.712561°
USGS Quad Name	Jersey, Ohio Quad
County	
Township	
	Jersey
Section and Subsection	
Hydrologic Unit Code	05060001-15-03
Site Visit	3/00/2022
National Wetland Inventory Map	3/03/2022
	NA
Onio wetland Inventory Map	
Soil Survey	
	 Web Soil Survey
Delineation report/map	

Name of Wetland: Wetland S		
Wetland Size (acres, hectares):		0.2 acre
Sketch: Include north arrow, relationship with other surface waters, vegetation zones,	etc.	
See Delineation Map.		
Comments, Narrative Discussion, Justification of Category Changes:		
NA		
Final score : _{39.5}	ategory:	Modified 2

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	x	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human- induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.		x
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	x	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	x	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		x
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		x

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), <u>http://www.dnr.state.oh.us/dnap</u>. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	VO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland.	NO Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland	NO Go to Que: tion 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea, Lythrum salicaria,</i> or <i>Phragmites australis,</i> or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
Z	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	NO Go to Question 8b

8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status.	NO Se to Question 9a
		Go to Question 9a	
9a	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 10	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	YES Wetland should be evaluated for possible Category 3 status	NO Complete Quantitative Rating
	Montgomery, Van Wert etc.).	Complete Quantitative Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.
Site: St	uppliers Si	e Wetland S	Rater(s): Bryan Lombard, EMH&T	Date: 3/09/2022
1	1	Metric 1. Wetland A	rea (size).	
max 6 pts.	subtotal	Select one size class and assign scores >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <2	re. 0.2ha) (5 pts) ha) (4 pts)) (3 pts) 2ha) (2pts) 0.12ha) (1 pt)	
13	14	Metric 2. Upland bu	ffers and surrounding la	nd use.
max 14 pts.	subtotal	2a. Calculate average buffer width. ✓ WIDE. Buffers average 50 MEDIUM. Buffers average NARROW. Buffers average VERY NARROW. Buffers average 2b. Intensity of surrounding land use ✓ VERY LOW. 2nd growth o ✓ LOW. Old field (>10 years) MODERATELY HIGH. Res HIGH. Urban, industrial, op	Select only one and assign score. Do not dou m (164ft) or more around wetland perimeter (7 25m to <50m (82 to <164ft) around wetland p e 10m to <25m (32ft to <82ft) around wetland average <10m (<32ft) around wetland perimet . Select one or double check and average. r older forest, prairie, savannah, wildlife area,), shrub land, young second growth forest. (5) sidential, fenced pasture, park, conservation til pen pasture, row cropping, mining, constructio	ble check. [′]) erimeter (4) perimeter (1) er (0) etc. (7) llage, new fallow field. (3) n. (1)
11	25	Metric 3. Hydrology	<i>.</i>	
max 30 pts.	subtotal	3a. Sources of Water. Score all that High pH groundwater (5) Other groundwater (3) ✓ Precipitation (1) Seasonal/Intermittent surfa Perennial surface water (la 3c. Maximum water depth. Select or >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) ✓ <0.4m (<15.7in) (1)	apply. 3b. Connecting apply. 3b. Connecting apply. 100 e Pa e Pa </td <td>vity. Score all that apply.) year floodplain (1) tween stream/lake and other human use (1) rt of wetland/upland (e.g. forest), complex (1) rt of riparian or upland corridor (1) inundation/saturation. Score one or dbl check. mi- to permanently inundated/saturated (4) gularly inundated/saturated (3) asonally inundated (2) asonally saturated in upper 30cm (12in) (1) <u>arage.</u></td>	vity. Score all that apply.) year floodplain (1) tween stream/lake and other human use (1) rt of wetland/upland (e.g. forest), complex (1) rt of riparian or upland corridor (1) inundation/saturation. Score one or dbl check. mi- to permanently inundated/saturated (4) gularly inundated/saturated (3) asonally inundated (2) asonally saturated in upper 30cm (12in) (1) <u>arage.</u>
		Recovering (3) Recent or no recovery (1)	v tile filli dike roa weir dre stormwater input v oth	ng/grading Id bed/RR track Idging Ier
9.5	34.5	Metric 4. Habitat Al	teration and Developmer	nt.
max 20 pts.	subtotal	 4a. Substrate disturbance. Score on None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select only Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 	e or double check and average. y one and assign score. logging	
s	34.5	4c. Habitat alteration. Score one or of None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)	Check all disturbances observed mowing grazing clearcutting v selective cutting woody debris removal toxic pollutants	ub/sapling removal baceous/aquatic bed removal dimentation adging ming trient enrichment

last revised 1 February 2001 jjm



Category Modified 2

End of Quantitative Rating. Complete Categorization Worksheets.

2

Present in moderate amounts, but not of highest quality or in small amounts of highest quality

Present in moderate or greater amounts

and of highest quality

39.5

		C	ircle	
		ans	swer or	
		i	nsert	Result
Service and the service of the servi		S	core	
Narrative Rating	Question 1 Critical Habitat		NO	If yes, Category 3.
	Question 2. Threatened or Endangered		NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES	NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES	NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES	NO	If yes, Category 1.
	Question 6. Bogs	YES	NO	If yes, Category 3.
	Question 7. Fens	YES	NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES	NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES	NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES	NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES	NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES	NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES	NO	If yes, Category 3
	Question 11. Relict Wet Prairies		NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	1		1
	Metric 2. Buffers and surrounding land use		13	14
	Metric 3. Hydrology		11	25
	Metric 4. Habitat		9.5	34.5
	Metric 5. Special Wetland Communities		0	34.5
	Metric 6. Plant communities, interspersion, microtopography		5	39.5
	TOTAL SCORE	39.5		Category based on score breakpoints Category Modified 2

ORAM Summary Worksheet

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one	\wedge	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetlant	NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over- categorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Categon 3 status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1- 54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to bateoeny as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.



End of Ohio Rapid Assessment Method for Wetlands.

Background Information

Name: Brvan Lombard	
Date:	
4/26/2022	
Affiliation: FMH&T	
Address:	
5500 New Albany Road, Columbus, Ohio 43054	
Phone Number: (614) 775-4517	
e-mail address:	
blombard@emht.com	
Name of Wetland: Wetland V	
Vegetation Communit(ies): Forested	
HGM Class(es): PFO	
Location of Wetland: include map, address, north arrow, landmarks, distances,	roads, etc.
See Delineation Map	
Lat/Long or UTM Coordinate	40 102449° -82 73612°
USGS Quad Name	
County	Jersey, Ohio Quad
	Lieking
Township	LICKIIIg
Section and Subsection	Jersey
	Jersey
Hydrologic Unit Code	Jersey 05060001-15-03
Hydrologic Unit Code Site Visit	Uicking Jersey 05060001-15-03 4/26/2022
Hydrologic Unit Code Site Visit National Wetland Inventory Map	Uicking Jersey 05060001-15-03 4/26/2022 PFO1C
Hydrologic Unit Code Site Visit National Wetland Inventory Map Ohio Wetland Inventory Map	Licking Jersey 05060001-15-03 4/26/2022 PFO1C
Hydrologic Unit Code Site Visit National Wetland Inventory Map Ohio Wetland Inventory Map Soil Survey	Licking Jersey 05060001-15-03 4/26/2022 PFO1C Web Soil Survey

Name of Wetland: Wetland V		
Wetland Size (acres, hectares):		0.25 acre
Sketch: Include north arrow, relationship with other surface waters, vegetation zones	s, etc.	
See Delineation Map.		
Comments, Narrative Discussion, Justification of Category Changes:		
NA		
	<u> </u>	
Final score : 39	Category:	Mod. 2

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	x	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human- induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.		x
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	x	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		x
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		x
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		x

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), <u>http://www.dnr.state.oh.us/dnap</u>. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	VO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland.	NO Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland	NO Go to Que: tion 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea, Lythrum salicaria,</i> or <i>Phragmites australis,</i> or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
Z	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	NO Go to Question 8b

8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status.	NO Seto Question 9a
		Go to Question 9a	
9a	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 10	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	YES Wetland should be evaluated for possible Category 3 status	NO Complete Quantitative Rating
	Montgomery, Van Wert etc.).	Complete Quantitative Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
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Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: Sup	pliers Sit	e Wetland V Rater(s): Bryan Lombard, EMH&T	Date: 4/26/2022
1	1	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts)	
5	6	Metric 2. Upland buffers and surrounding land us	е.
max 14 pts.	subtotal	 2a. Calculate average buffer width. Select only one and assign score. Do not double check. WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (0) 2b. Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) 	l) (1) fallow field. (3)
13 [·]	19	Metric 3. Hydrology.	
max 30 pts.	subtotal	3a. Sources of Water. Score all that apply. 3b. Connectivity. Score High pH groundwater (5) 100 year floor Other groundwater (3)	all that apply. dplain (1) am/lake and other human use (1) id/upland (e.g. forest), complex (1) in or upland corridor (1) /saturation. Score one or dbl check.
oundment		Set: Waxing the water depth. Select only one and assign score. Set \sim	ndated/saturated (3) undated (2) aturated in upper 30cm (12in) (1)
		3e. Modifications to natural hydrologic regime. Score one or double check and average. None or none apparent (12) Recovered (7) r Recovering (3) Recent or no recovery (1)	(nonstormwater) track
10	29	Metric 4. Habitat Alteration and Development.	
max 20 pts.	subtotal	 4a. Substrate disturbance. Score one or double check and average. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select only one and assign score. Excellent (7) 	
		Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average.	
subi	29 total this pa	Image: None or none apparent (9) Check all disturbances observed Image: None or none apparent (9) mowing Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or none apparent (9) Image: None or noe apparent (9) Image: None or noe apparent (9) Image: None or noe apparent (9) Image: None or noe apparent (9) Image: None or noe apparent (9) Image: None or noe apparent (9) Image: None or noe apparent (9) Image: None or noe a	removal iquatic bed removal า hment

last revised 1 February 2001 jjm





Modified Category 2

End of Quantitative Rating. Complete Categorization Worksheets.

2

3

of marginal quality

and of highest quality

Present in moderate amounts, but not of highest quality or in small amounts of highest quality

Present in moderate or greater amounts

		circle	
		answer or	
		insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	1	1
	Metric 2. Buffers and surrounding land use	5	6
	Metric 3. Hydrology	13	19
	Metric 4. Habitat	10	29
	Metric 5. Special Wetland Communities	0	29
	Metric 6. Plant communities, interspersion, microtopography	10	39
	TOTAL SCORE	39	Category based on score breakpoints Modified Category 2

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetlant	NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over- categorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Categon 3 status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score greater than the Category 2 scoring threshold (<i>including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the <i>"gray zone"</i> for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1- 54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to octegory as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.



End of Ohio Rapid Assessment Method for Wetlands.





Photograph 1 View of Wetland K facing north. (EMH&T 4/14/22)



Photograph 2 View of Wetland K facing south. (EMH&T 4/14/22)





Photograph 3 View of Wetland K facing east. (EMH&T 4/14/22)



Photograph 4 View of Wetland K facing west. (EMH&T 4/14/22)





Photograph 5 View of Wetland L facing north. (EMH&T 4/14/22)



Photograph 6 View of Wetland L facing south. (EMH&T 4/14/22)





Photograph 7 View of Wetland L facing east. (EMH&T 4/14/22)



Photograph 8 View of Wetland L facing west. (EMH&T 4/14/22)





Photograph 9 View of Wetland R facing north. (EMH&T 4/15/22)



Photograph 10 View of Wetland R facing south. (EMH&T 4/15/22)





Photograph 11 View of Wetland R facing east. (EMH&T 4/15/22)



Photograph 12 View of Wetland R facing west. (EMH&T 4/15/22)





Photograph 13 View of Wetland S facing north. (EMH&T 3/09/22)



Photograph 14 View of Wetland S facing south. (EMH&T 3/09/22)





Photograph 15 View of Wetland S facing east. (EMH&T 3/09/22)



Photograph 16 View of Wetland S facing west. (EMH&T 3/09/22)





Photograph 17 View of Wetland V facing north. (EMH&T 4/22/22)



Photograph 18 View of Wetland V facing south. (EMH&T 4/22/22)





Photograph 19 View of Wetland V facing east. (EMH&T 4/22/22)



Photograph 20 View of Wetland V facing west. (EMH&T 4/22/22)





Photograph 21 View of Stream 1 (Blacklick Creek) facing upstream (west of Clover Valley Road). (EMH&T 4/19/22)



Photograph 22 View of Stream 1 (Blacklick Creek) facing downstream (west of Clover Valley Road). (EMH&T 4/19/22)





Photograph 23 View of Stream 1 (Blacklick Creek) substrate (west of Clover Valley Road). (EMH&T 4/19/22)



Photograph 24 View of Stream 1 (Blacklick Creek) facing upstream (east of Clover Valley Road). (EMH&T 4/20/22)





Photograph 25 View of Stream 1 (Blacklick Creek) facing downstream (east of Clover Valley Road). (EMH&T 4/20/22)



Photograph 26 View of Stream 1 (Blacklick Creek) substrate (east of Clover Valley Road). (EMH&T 4/20/22)





Photograph 27 View of Stream 2 facing upstream. (EMH&T 4/14/22)



Photograph 28 View of Stream 2 facing downstream. (EMH&T 4/14/22)





Photograph 29 View of Stream 2 substrate. (EMH&T 4/14/22)



Photograph 30 View of Stream 3 (Duncan Run) facing upstream. (EMH&T 3/02/22)





Photograph 31 View of Stream 3 (Duncan Run) facing downstream. (EMH&T 3/02/22)



Photograph 32 View of Stream 3 (Duncan Run) substrate. (EMH&T 3/02/22)



Path: J:\20220326\GIS__REVISED_Map_July2022\Exhibit 1 - Location Map.mxd



Path: J:\20220932\GIS\Exhibit 2 - Vicinity Map.mxd










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NEW ALBANY TECH PARK

Individual Section 404/401 Permit Application MBJ Holdings, LLC December 13, 2022

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1.0 INTRODUCTION

MBJ Holdings, LLC is proposing to construct an industrial development known as the "New Albany Tech Park." The project is located on approximately 442.5 acres of land positioned east and west of Clover Valley Road, north of Jug Street, and south of Miller Road in the City of New Albany, Licking County, Ohio. The proposed development includes the construction of an industrial business park providing multiple warehouses, flex office, and maintenance/manufacturing buildings for advanced technology manufacturers and users. The industrial park is anticipated to provide approximately 5 million square feet of occupiable building space along with associated parking areas, paved storage areas, site entrances and drives, stormwater facilities and associated infrastructure.

Construction of the New Albany Tech Park project will require impacts to 6.51 acres of jurisdictional forested wetlands, as well as 563 linear feet of intermittent stream. A request for an Isolated Wetland Permit for authorization to impact 8.60 acres of isolated wetlands for the proposed project was submitted to the Ohio Environmental Protection Agency (Ohio EPA) under a separate cover. Additionally, the proposed development will impact 3.57 acres of non-jurisdictional ponds.

EMH&T has prepared this document in accordance with a request by MBJ Holdings, LLC for Section 401 Water Quality Certification from the Ohio EPA and Clean Water Act Section 404 authorization from the United States Army Corps of Engineers (USACE) for impacts to Waters of the United States in association with the proposed project. MBJ Holdings, LLC is seeking authorization from the Ohio EPA and the USACE to construct the proposed **Alternative B**. Based on the proposed schedule for full buildout of the development, MBJ Holdings is requesting a five-year permit expiration.

The sequence of this proposal follows the format of the Ohio EPA Section 401 Water Quality Certification Application Completion and Submittal Instructions (rev. 07/2022). Attached to the end of this section is the completed 401 Water Quality Certification Application Form (Attachment 1A) and 404 Permit Application Form (Attachment 1B).



2.0 SUMMARY OF IMPACTS

EMH&T has prepared this document in accordance with a request by MBJ Holdings, LLC for Section 401 Water Quality Certification from the Ohio EPA and Section 404 authorization from the USACE for impacts to Waters of the United States in association with the proposed development of the New Albany Tech Park. The project area is located east and west of Clover Valley Road, north of Jug Street, and south of Miller Road in the City of New Albany, Licking County, Ohio, as shown on Exhibit 1 (Section 6). MBJ Holdings, LLC is seeking authorization from the Ohio EPA and the USACE to be able to construct the proposed **Alternative B**.

In total, the 442.5-acre site has 3,892 linear feet of intermittent stream, 54 linear feet of ephemeral stream, and 7.33 acres of jurisdictional, forested wetlands as shown on Exhibit 7 (Section 6). Based on Alternative B (Exhibit 10 in Section 6), the proposed jurisdictional impacts necessary for the expansion include 563 linear feet of intermittent stream and 6.51 acres of forested wetland. These impacts are summarized on the Proposed Impacts Tables (Attachments 2A and 2B).

For Alternative B, the proposed mitigation will include the purchase of wetland mitigation bank credits as well as the use of permittee-responsible pooled stream mitigation credits. The wetland mitigation will include utilization of mitigation bank and in-lieu fee credits purchased from the Stream + Wetlands Foundation in the Upper Scioto River watershed (HUC 05060001). The stream mitigation will be provided via use of pooled mitigation credits from the Avis Road Pooled Mitigation Site, which is located approximately five miles south of the proposed New Albany Tech Park, also in the Upper Scioto River watershed.

Alternative B is the Least Environmentally Damaging Practicable Alternative (LEDPA). This alternative is feasible, cost effective and a desirable alternative for onsite development. By implementing this design, numerous social and economic benefits could be gained by the City of New Albany, Licking County and the State of Ohio. Some environmental resources would be lost during the construction of the proposed development, but with the implementation of the proposed mitigation techniques, environmental benefits would also be gained within the Upper Scioto River watershed (HUC 05060001).



3.0 INVESTIGATION OF WATERS OF THE U.S.

A field investigation of the site was conducted by EMH&T in March and April 2021 to determine the location and extent of potential Waters of the United States, including streams and wetlands. A delineation report covering the 442.5-acre project site was prepared and submitted to the USACE on May 23, 2022. Additional information was submitted to the USACE on August 8, 2022 and the report was final revised September 8, 2022.

The Jurisdictional Waters field investigations were conducted in accordance with the Corps of Engineers Wetlands Delineation Manual (USACE, 1987) and the Regional Supplement to Corps of Engineers Wetlands Delineation Manual: Midwest Region (Version 2.0) (USACE, 2010). A Trimble Handheld Global Positioning (GPS) unit (sub-meter accuracy) was used to delineate the potential streams and wetlands identified within the 442.5-acre site.

3.1 Delineation Investigation Results

A total of five (5) jurisdictional wetlands (7.33 acres), two (2) intermittent streams (3,892 linear feet), and one (1) ephemeral stream (54 linear feet) were identified on the approximately 442.5acre site, which are summarized in Table 1. In addition, eighteen (18) non-jurisdictional, isolated wetlands (14.46 acres) and five (5) non-jurisdictional ponds (3.57 acres) were identified on the site. These features do not meet the definition of Waters of the U.S. and are not further discussed herein. Exhibit 7 (provided in Section 6) shows the location of the identified surface water features on the site. The Investigation of Waters of the United States is provided at the end of this section as Attachment 3A. Photographs of the surface water features are provided in Attachment 3B.

Frankrige ID	Classification	Jurisdictio	Jurisdictional		
reature ID	Classification	Length (LF)	Area (acres)	Wetland (acres)	
Stream 1 (Blacklick Creek)	Intermittent	3,329*	0.49		
Stream 2	Ephemeral	54	0.004		
Stream 3 (Duncan Run)	Intermittent	563*	0.11		
Stream Total	-	3,946	0.604		
Wetland K	Forested			0.20	
Wetland L	Forested			1.15	
Wetland R	Forested			5.53	
Wetland S	Forested			0.20	
Wetland V	Forested			0.25	
Wetland Total		-			
PROJECT TOTALS	-	3,946 lf	0.604 ac	7.33 ac	

TABLE 1 Onsite Jurisdictional Surface Water Features Summary

*Feature continues offsite



3.2 Wetlands Assessment

There are five (5) jurisdictional wetlands located on the site, totaling 7.33 acres. The Ohio Rapid Assessment Method (ORAM), as presented in the Ohio Rapid Assessment Method for Wetlands v. 5.0 (Mack, 2001) was used to determine the appropriate category for each wetland under the Wetland Antidegradation Rule, Ohio Administrative Code (OAC) 3745-1-54. The ORAM assigns a score to a wetland based on a series of answers to questions dealing with wetland functions and features. The score is used to classify the wetland as Category 1, 2 or 3, which corresponds with low, general, and high quality, respectively.

The results of the ORAM assessment are summarized in Table 2. The ORAM data forms are provided in Attachment 3C. The ORAM scores were verified by Mr. Matthew Lamoreaux of Ohio EPA on October 28, 2022, following a site visit conducted on October 26, 2022. All of the wetlands exhibit narrow buffers and prior alteration/disturbance stemming from the surrounding high intensity, agricultural land use and logging. Further discussion of the jurisdictional wetlands proposed to be impacted is provided below.

Feature ID	Classification	ORAM Score	ORAM Category
Wetland K	Forested	30	1 or 2 Gray Zone
Wetland L	Forested	51	2
Wetland R	Forested	54	2
Wetland S	Forested	39.5	Modified 2
Wetland V	Forested	39	Modified 2

TABLE 2 Wetland ORAM Summary

Wetland K is a 0.20-acre forested wetland located on the central portion of the site, just east of Clover Valley Road. Wetland K is dominated by American elm (*Ulmus americana*), spicebush (*Lindera benzoin*), and jewelweed (*Impatiens capensis*). The ORAM score for Wetland K was 30, categorizing it within the Category 1 or 2 gray zone.

Wetland L is a 1.15-acre forested wetland located on the central portion of the site, south of Wetland K and east of Clover Valley Raod. Wetland L is dominated by silver maple (Acer saccharinum), spicebush, and sedge species (Carex spp.). The ORAM score for Wetland L was 51, categorizing it as a Category 2 wetland.

Wetland R is a 5.53-acre forested wetland located on the northeastern portion of the site. Wetland R is dominated by silver maple, pin oak (*Quercus palustris*), spicebush, green ash (*Fraxinus pennsylvanica*), tussock sedge (*Carex stricta*), and stout wood reed-grass (*Cinna arundinacea*). The ORAM score for Wetland R was 54, categorizing it as a Category 2 wetland.

Wetland S is a 0.20-acre forested wetland located on the northeastern portion of the site, northwest of Wetland R. Wetland S is dominated by silver maple, pin oak, spicebush, multiflora rose (*Rosa multiflora*), sedge species, and stout wood reed-grass. The ORAM score for Wetland S was 39.5, categorizing it as a Modified Category 2 wetland.



Wetland V is a 0.25-acre forested wetland located on the northeastern portion of the site, south of Wetland R. Wetland V is dominated by green ash, American elm, and red-osier dogwood (Cornus sericea). The ORAM score for Wetland V was 39, categorizing it as a Modified Category 2 wetland.

3.3 Stream Assessment

The Ohio EPA assigns Aquatic Life Use Designations to rivers and streams, which reflect the highest chemical, physical and biological quality that a particular waterway can be expected to attain. For primary headwater (PHW) streams, such as those on site, which have watersheds less than one (1) square mile, the field evaluation methods described in the *Field Methods for Evaluating Primary Headwater Streams in Ohio (Version 4.1)* (Ohio EPA, 2020) generally are applied to assess the relative quality and function of the aquatic communities of these streams, i.e., the Headwater Habitat Evaluation Index (HHEI).

The HHEI methodology was developed by Ohio EPA to evaluate streams with watersheds less than or equal to one (1) square mile and natural pools less than 40 cm in depth. HHEI scoring is based on three (3) parameters that are associated with habitat quality in small headwater streams: substrate type, maximum pool depth and bankfull width. In addition, a presence/absence survey for aquatic biota is conducted. Using the HHEI scoring system, streams may be categorized as Class I (ephemeral), Class II (intermittent or perennial) or Class III (perennial) streams.

The HHEl cannot be used to establish existing aquatic life use per OAC 3745-1-07. However, the HHEl assessment provides a qualitative field assessment of the condition of the physical stream habitat, which can aid in the determination of a provisional aquatic life use (ALU) designation, i.e. warmwater habitat (WWH), exceptional warmwater habitat (EWH), modified warmwater habitat (MWH), coldwater habitat (CWH) or limited resource water (LRW), as defined in OAC 3745-1-07.

It is also important to consider the assigned aquatic life use designation for the overall watershed. The onsite streams are located within the Headwaters Blacklick Creek (05060001-15-03) and Duncan Run (05060001-13-07) subwatersheds. The Headwaters Blacklick Creek subwatershed encompasses 48.88 square miles, extending from the City of Reynoldsburg north to U.S. Route 62 in Licking County. The Duncan Run subwatershed encompasses 16.79 square miles of land north of New Albany and east of Hoover Reservoir. Both Blacklick Creek and Duncan Run are designated as WWH per OAC 3745-1-09. However, the streams are in non-attainment of that use designation per the Ohio EPA's Total Maximum Daily Loads for the Big Walnut Creek Watershed (August 2005).

EMH&T completed an HHEI assessment for each onsite stream. The datasheets for these evaluations are attached at the end of this section (Attachment 3D) and a summary of the scores and provisional aquatic life use determinations is provided in Table 3. The results of the stream assessments are discussed below.



Determination of Existing Stream Use Summary							
Stream ID	Flow Regime	HHEI	PHW Class	ALU			
Stream 1/ Blacklick Creek	Intermittent	53	Class II	WWH			
Stream 2	Ephemeral	35	Class II	LRW			
Stream 3/ Duncan Run	Intermittent	57	Class II	WWH			

TABLE 3
Determination of Existing Stream Use Summary

Stream 1/Blacklick Creek: Stream 1, the headwaters of Blacklick Creek, begins just offsite to the south of the central portion of the project area. The stream flows for 3,329 linear feet from southeast to northwest through the western half of the site, traveling under Clover Valley Road through a culvert pipe. Stream 1 exists primarily as an agricultural ditch within the project area. It is located within a narrow, linear, non-forested buffer, to which multiple agricultural drain tiles contribute flow from the surrounding agricultural fields. The stream has an average bankfull width of 6.5 feet and a maximum pool depth of approximately 8 inches. The dominant substrate types observed were silt and detritus. An HHEI score of 53 was calculated for the stream. Blacklick Creek is designated as WWH per OAC 3745-1-09, but is in non-attainment of that use designation north of Morse Road (RM 22.4) (Ohio EPA, 2005). No impacts to Stream 1/Blacklick Creek are proposed for the New Albany Tech Park project; however, the culvert carrying the stream under Clover Valley Road will be replaced and extended as part of a separate roadway improvement project to be permitted and performed by others.

Stream 2: Stream 2 flows for 54 linear feet southeast to northwest between Wetland L and Stream 1/Blacklick Creek. The stream was observed to be a 3.5-foot wide ephemeral channel with a maximum pool depth of approximately 1.6 inches. The dominant substrate types observed were silt and gravel. An HHEl score of 35 was calculated for the stream, resulting in its classification as "Class I" PHW. However, due to its small size, shallow pool depths and ephemeral flow regime, it was determined that Stream 2 is likely incapable of supporting and maintaining "a balanced, integrated, adaptive community of warmwater aquatic organisms." Accordingly, Stream 2 was assigned a provisional ALU designation of LRW (per OAC 3745-1-07). No impacts to Stream 2 are proposed for the project.

Stream 3/Duncan Run: Stream 3, the headwaters of Duncan Run, originates onsite from Wetland R and flows northwest for 563 linear feet before flowing off the property. Stream 3 was observed to be an approximately 10-foot wide intermittent channel with a maximum pool depth of approximately 3.5 inches. The dominant substrate types observed were silt and gravel. An HHEI score of 57 was calculated for the stream. Duncan Run is designated as WWH per Ohio Administrative Code (OAC) 3745-1-09. However, the stream is in non-attainment of that use designation (Ohio EPA, 2005). The onsite portion of Duncan Run is proposed to be filled for the development of the site, resulting in an impact of 563 linear feet of intermittent stream.



4.0 AGENCY CORRESPONDENCE

Prior to any activity authorized under Section 401/404 of the Clean Water Act, coordination is required with the USACE, United States Fish and Wildlife Service (USFWS), and Ohio Department of Natural Resources (ODNR). To fulfill these requirements, these agencies were contacted about information pertaining to the site. The information obtained from these agencies is summarized below. Additionally, a Phase I Cultural Resources Management Survey has been completed for the project area, which is being coordinated with the Ohio Historic Preservation Office (OHPO).

4.1 Pre-Application Meeting Request

40 C.F.R. Part 121.4 requires a pre-filing meeting request to be submitted, in writing, at least 30 days prior to applying for a 401 WQC. A pre-application request was submitted to Ohio EPA on October 24, 2022 (Attachment 4A), and the pre-application meeting / site visit was held October 26, 2022.

4.2 USACE Jurisdictional Determination

Ohio Revised Code (ORC) 6111.30(A)(1) requires that a 401 WQC application include a copy of the Jurisdictional Determination (JD) letter from the USACE documenting its jurisdiction over the wetlands, streams or other waters of the state that are the subject of the 401 WQC application. A delineation report for a larger (515-acre) site containing the 442.5-acre project area was prepared and submitted to the USACE on May 23, 2022. The site boundaries were modified and additional information was submitted to the USACE on August 8, 2022. The final revised delineation report was then prepared on September 8, 2022. Approved and Preliminary Jurisdictional Determinations for the 515-acre delineated area were issued by the USACE on September 13, 2022 (provided in Attachment 4B).

4.3 USACE Public Notice

Ohio Revised Code (ORC) 6111.30(A) (1) requires that a 401 WQC application include a copy of the USACE Public Notice regarding the Section 404 permit application concerning the proposed project. The public notice for the proposed project was issued by the USACE on December 12, 2022, and is provided as Attachment 4C.

4.4 State-Listed Rare or Endangered Species

The ODNR was contacted for information available concerning the presence of state listed endangered, threatened, and proposed species or their habitat. A request was made to provide information through a formal Environmental Review through the Office of Real Estate and Land Management. ODNR provided comments on November 15, 2022, which are provided in Attachment 4D.



4.5 Federally-Listed Threatened or Endangered Species

EMH&T reviewed the USFWS Information for Planning and Consultation (IPaC) website for listed species and critical habitat that "may be present" within the project area. There are two (2) listed species that may occur within the project area:

- Indiana bat (Myotis sodalis) Endangered
- Northern long-eared bat (Myotis septentrionalis) Threatened

Several woodlots and wooded fencerows are present with the permit area. However, the majority of the permit area is non-forested, consisting of active agricultural fields, scrub-shrub vegetation, and maintained farmsteads. Approximately 105 acres of trees will be cleared in order to accommodate the proposed development. In regards to the federally-listed bat species, a mist-net presence/probable absence (P/A) survey for a larger area encompassing the Tech Park project site was conducted and submitted to the USFWS for review on August 23, 2021. This survey did not include the approximately 60-acre woodlot present on the eastern portion of the Tech Campus project site.

The USFWS provided comments and recommendations based on their review of the bat survey for the larger site on August 24, 2021 (TAILS # 03E15000-2021-TA-2118). The USFWS indicated that, "Tree clearing on the site at any time of the year is unlikely to result in adverse impacts to Indiana bats and will not result in any unauthorized incidental take of northern long-eared bats." Due to the project type, size, and location, the USFWS did not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat.

Upfront coordination with the USFWS for the New Albany Tech Park project was initiated by EMH&T through a coordination letter submitted on October 15, 2022. The USFWS responded in a letter dated October 20, 2022. With respect to the previously un-surveyed 60-acre woodlot, the USFWS stated "These areas provide a significant amount of suitable bat habitat and thus we request a summer bat survey be completed within these areas."

It should be noted that within the proposed project limits under the requested permit authorization, approximately 35 acres of the 60-acre woodlot not previously surveyed will be cleared. The remaining ± 25 acres of forest along the southern property boundary, surrounding Wetlands L, O, P, and Q, will be preserved. The proposed project and onsite avoidance are discussed in Section 5. The entirety of this clearing, which will require an additional bat survey, is located east of Clover Valley Road, within the second phase of the proposed development. Construction in this area will not commence until 2024. As such, the requested summer bat survey may be completed in the summer of 2023. All tree clearing to occur west of Clover Valley Road, within the first phase of development, is covered under the prior bat survey and USFWS' August 24, 2021 recommendations.

Regarding potential impacts to other species, the USFWS stated: "Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat." Copies of all USFWS correspondence is provided as Attachment 4E.



4.6 Archaeological and Historical Information

A Phase I Cultural Resources Management Survey was conducted by ASC Group, Inc. for a 513acre study area that included the New Albany Tech Park project site (ASC, 2022). The Phase I survey identified a total of 74 archaeological sites, the majority of which contained prehistoric components consisting of isolated finds or small lithic scatters. One prehistoric site (33LI3303) was identified as a Hopewell camp, for which further work was recommended to ascertain the site's potential for listing on the National Register of Historic Places (NRHP). A Phase IB investigation was conducted, the results of which are included in the Phase I survey report. The site ultimately yielded 14 artifacts but no evidence of features or other potentially significant information was discovered. ASC recommends that no further work is necessary at 33LI3303 or any of the other newly documented prehistoric sites. In addition to the prehistoric sites, 20 sites with historic components and 24 architectural history resources were identified. All of the resources lack significance and as such are not recommended for further work nor eligible for listing in the NRHP. A copy of the Phase I survey is included in Attachment 4F.



5.0 ANTIDEGRADATION ANALYSIS

An antidegradation analysis is required to be performed as part of a 401 Water Quality Certification application pursuant to Ohio Revised Code 6111.30 and Ohio Administrative Code (OAC) 3745-32-03, 3745-1-05 and 3745-1-54. This analysis shall be prepared in accordance with 40 CFR Part 230 and OAC 3745-32-03, 3745-1-05 and 3745-1-54. The analysis must include a discussion of both offsite and onsite alternatives, which are available and capable of meeting the project purpose and include avoidance and minimization measures. In addition, mitigation techniques must be discussed.

The sequence of the antidegradation analysis discussion follows the format of the Ohio EPA Section 401 Water Quality Certification Application Completion and Submittal Instructions (rev. 07/2022) and the numbers following the heading titles correspond with those indicated under Item 5 of the submittal instructions.

5.1 **Project Purpose and Description (1.1)**

The purpose of the proposed development is to construct an industrial business park providing multiple warehouses, flex office and maintenance/manufacturing buildings for advanced technology manufacturers and users. The proposed development is anticipated to primarily be occupied by companies supporting and supplying the Intel semiconductor manufacturing facility to the north, which requires certain support and supply functions to be located in close proximity to that facility. The proposed development will also support the existing New Albany International Business Park by providing locations for expansion by existing businesses and sites for new companies that complement existing uses.

The industrial park is anticipated to provide approximately 5 million square feet of occupiable building space, along with associated parking areas, paved storage areas, site entrances and drives, stormwater facilities and related infrastructure. The first phase of development, located west of Clover Valley Road, will include 10 warehouse buildings and six (6) flex office buildings (± 3.4 million square feet). The subsequent phase of development to the east of Clover Valley Road will provide an additional five (5) warehouses, four (4) equipment maintenance buildings and one (1) flex office building (± 1.7 million square feet). Associated public roadway and utility improvements located outside of the permit area or along adjacent public or private rights-of-way are separate single and complete projects being undertaken by the City of New Albany or other governmental organizations and are not discussed herein.

While the exact timing of construction has not been determined, MBJ Holdings anticipates that construction of the initial phase will commence upon or soon after the isolated wetland permit issuance in 2023 and be completed within three years. The subsequent phase of development is expected to commence in 2024 and be completed over the following three years, such that full build out is completed by the end of 2027.



5.2 Analysis of Practicable Alternatives and Demonstration of Avoidance, Minimization and Mitigation (1.2)

5.2.1 Offsite Alternatives

For the purpose of the required antidegradation analysis, MBJ Holdings evaluated offsite alternatives in the City of New Albany for construction of the proposed tech park. For the evaluation of off-site alternatives, available properties were evaluated based on the certain minimum criteria, including:

- 1) Sites that were within the City of New Albany or contiguous to the corporate limits (i.e., able to be annexed to New Albany);
- 2) Sites that were at least 400 acres in size or larger to accommodate an approximately 5 million-square foot development;
- 3) Sites in proximity to the Intel semiconductor manufacturing facility and the New Albany International Business Park, which the Tech Park is intended to support;
- 4) Sites with direct access to the interstate (State Route 161); and
- 5) Sites with available utilities or potential to develop sufficient utilities.

Using these criteria, two (2) local sites were determined to be eligible for consideration. These include a site located west of Clover Valley Road, south of Green Chapel Road, and north of Miller Road, and the desired Tech Park site. A comparison matrix of these alternatives is provided in Table 4. These sites are shown on Exhibits 8 and 9, respectively (Section 6).



Category	Factor	New Albany Tech Park	Offsite Alternative (Clover Valley Rd.)		
Location	New Albany or Annexable	YES	YES ±200 acres in process of being annexed		
Availability	Available for Acquisition	YES Owned by applicant	POTENTIALLY Portions not currently owned by applicant are currently in contract for acquisition, but portions are also under contract for sale to 3 rd parties		
	±400 Acre Parcel	YES 442.5 acres	YES ±425 acres		
	Appropriate Zoning	YES Zoned for use	MAYBE ±200 ac requires rezoning with annexation		
Logistics	Access to SR 161	YES Immediately north of Mink St./161 interchange	YES Green Chapel Rd. to US 62 to Beech Rd./161 interchange		
	Available Utilities	YES	NO Would require utility expansion and roadway improvements		
Constructability	Feasible for Construction	YES	YES		
Acquisition Cost	Reasonable Acquisition Cost	YES Owned by applicant	YES Real estate acquisition for unowned parcels is pending		
Construction Cost	Reasonable Construction Cost	YES \$491.9 million	YES (higher) \$503.6 million		
Practicable?		YES	YES		

 TABLE 4

 Off-Site Alternatives Comparison Matrix for Practicability

The Offsite Alternative is approximately 425 acres in size, located west of Clover Valley Road, south of Green Chapel Road, and north of Miller Road, approximately 0.5 mile north of the Tech Park site. The site is located immediately west of the Intel facility and approximately one mile north of the International Business Park. The site is comprised of agricultural fields (\pm 290 acres), forest and scrub/shrub areas (\pm 80 acres) and rural residential lots (\pm 55 acres). Duncan Run bisects the site. Approximately half of the site is located outside the corporate limits, but is in the process of being annexed to the City of New Albany. Access to 161 is available via Green Chapel Road to US 62, Beech Road or Mink Street. The site would require expansion of utilities in order to support the proposed use.

The primary practical issues with the Offsite Alternative are (i) portions of the site are currently under contractual obligation to a third party, and (ii) significant roadway improvements and expansion of utilities would be necessary. The existing contractual obligations would have to be modified in order to make this site available, with no assurance that such modifications could be accomplished. With respect to roadway and utility infrastructure, significant investment has already



been made by the City of New Albany in improving Clover Valley Road and Jug Street, extending Harrison Road, and providing associated utility expansions within those roadway corridors in order to support the Intel project, and the proposed Tech Park, among other developments in the area. If the development were to be sited on the Offsite Alternative, similar improvements would need to first take place along Green Chapel Road, which would require significant additional investment, estimated to total over \$11.6 million, resulting in a construction cost of approximately \$503.6 million. These improvements would also delay the schedule of development by at least a year or more. Accordingly, the Offsite Alternative was determined to be practicable for the proposed project, but it is less desirable than New Albany Tech Park.

As both the New Albany Tech Park and the Offsite Alternative were determined to be practicable, each was evaluated based upon the potential impacts to the environment, should the proposed project be implemented on the site. This comparison is discussed in Section 5.2.3.

5.2.2 Onsite Alternatives

In accordance with 40 CFR Part 230 and OAC 3745-1-05, MBJ Holdings completed an analysis of onsite alternatives to determine if there is an onsite alternative, other than the preferred alternative, that would result in a lesser lowering of water quality. The onsite alternatives analysis includes a discussion of two (2) proposed project alternatives referred to as Alternative A and Alternative B, as provided below.

Alternative A

Alternative A is shown on Exhibit 8 (Section 6). This design provides for the potential development of a large industrial business park containing multiple warehouses, office buildings, and equipment maintenance buildings (27 buildings comprising 5,072,666 square feet in total), as well as associated utility infrastructure, internal roadways, parking lots, storage yards, and stormwater facilities within the proposed development footprint.

Stream impacts under Alternative A include 563 linear feet of intermittent stream and 54 linear feet of ephemeral stream (617 linear feet total). The intermittent stream impact includes the total fill of the onsite portion of Stream 3/Duncan Run for the construction of a 302,400 square foot warehouse and an associated parking lot; ephemeral stream impacts include the total fill of Stream 2 for grading associated with the construction of a proposed stormwater basin.

Jurisdictional wetland impacts associated with Alternative A include 7.33 acres of forested wetland. All wetlands proposed for impact are ORAM Category 2. The impacts include fill and grading associated with construction of the proposed buildings, internal roadways, parking lots, and stormwater basins. The specific activities impacting each jurisdictional water resource proposed for impact are listed below and the impacts are quantified in Table 5.

- Total fill (54 linear feet) of ephemeral Stream 2 for grading for a stormwater pond;
- Total fill (563 linear feet) of intermittent Stream 3 for the construction of a 302,400 square foot warehouse and associated parking lot;
- Total fill of Wetland K (0.20 acre) for the construction of a 41,712 square foot office building and associated parking lot;



- Total fill (1.15 acres) of Wetland L associated with grading for a stormwater pond and construction of a 41,712 square foot office building and associated parking lot;
- Total fill (5.53 acres) of Wetland R for the construction of three (3) warehouses (two 302,400 square foot buildings and one 275,000 square foot building), associated parking lots, truck parking, and internal roadways;
- Total fill (0.20 acre) of Wetland S for the construction of a 302,400 square foot warehouse; and
- Total fill (0.25 acre) of Wetland V for the construction of a 275,000 square foot warehouse.

Total fill to be placed in association with grading of the jurisdictional surface water features during construction of Alternative A is estimated to be approximately 11,933 cubic yards.

a. Streams Length Proposed Impact Volume of Stream ID ALU % Avoided Type **Onsite** (If) Impact (If) Type Impact (cy) WWH 3,329 100% Stream 1 0 0 Intermittent --Stream 2 **Ephemeral** LRW 54 54 Fill 5 0%

563

617

Fill

-

102

107

0%

84%

563

3,946

TABLE 5Proposed Impacts to Jurisdictional Surface Waters for Alternative A

	 		-
		-	-
D.	 ЧII	an	as

Intermittent

WWH

-

Wetland ID	Туре	ORAM/ Cat	Area Onsite (ac)	Proposed Impact (ac)	Impact Type	Volume of Impact (cy)	% Avoided
Wetland K	Forested	30/2	0.20	0.20	Fill	323	0%
Wetland L	Forested	54 / 2	1.15	1.15	Fill	1,855	0%
Wetland R	Forested	54 / 2	5.53	5.53	Fill	8,922	0%
Wetland S	Forested	39.5 / 2	0.20	0.20	Fill	323	0%
Wetland V	Forested	45 / 2	0.25	0.25	Fill	403	0%
Total		-	7.33	7.33	-	11,826	0%

Alternative B

Stream 3

Total

Alternative B is shown on Exhibit 10 (Section 6). This alternative retains approximately 5,030,954 square feet of facility building space, along with associated parking areas, utility infrastructure, internal roadways, storage yards, and stormwater facilities. Impacts to surface water features are reduced by eliminating one (1) flex office building (41,712 square feet) from the east side of the project and reconfiguring the footprint of a proposed stormwater basin to avoid impacts to Stream 2 and the majority of Wetland L. The proposed jurisdictional impacts associated with Alternative B include 563 linear feet of intermittent stream and 6.51 acres of forested wetland, as shown in Table 6. Because this layout retains the necessary features required to fulfill the project's purpose and meets the user's minimum square footage requirements, this alternative was determined to be practicable. Therefore, MBJ Holdings, LLC is seeking authorization from the Ohio EPA and the USACE to construct the proposed Alternative B.



TABLE 6Proposed Impacts to Jurisdictional Surface Waters for Alternative B

a. 🗆	Streams						
Stream ID	Туре	ALU	Length Onsite (lf)	Proposed Impact (If)	Impact Type	Volume of Impact (cy)	% Avoided
Stream 1	Intermittent	WWH	3,329	0		0	100%
Stream 2	Ephemeral	LRW	54	0		0	100%
Stream 3	Intermittent	WWH	563	563	Fill	102	0
Total	-	-	3,946	563	-	102	86%

b. Wetlands

Wetland ID	Туре	ORAM/ Cat	Area Onsite (ac)	Proposed Impact (ac)	lmpact Type	Volume of Impact (cy)	% Avoided
Wetland K	Forested	30/ 1-2 GZ*	0.20	0.20	Fill	323	0%
Wetland L	Forested	54 / 2	1.15	0.33	Fill	532	71%
Wetland R	Forested	54 / 2	5.53	5.53	Fill	8,922	0
Wetland S	Forested	39.5 / Mod 2*	0.20	0.20	Fill	323	0
Wetland V	Forested	45 / 2	0.25	0.25	Fill	403	0
Total		-	7.33	6.51	-	10,503	11%

* Wetlands with scores in the ORAM Category 1-2 "gray zone" or Modified Category 2 range have been treated as Category 2 wetlands for the purpose of calculating mitigation requirements.

5.2.3 Least Environmentally Damaging Practicable Alternative

Both onsite alternatives (Alternative A and Alternative B) and the Offsite Alternative were determined to be practicable alternatives for achieving the project purpose. Accordingly, each of these alternatives were evaluated based upon their potential environmental impacts, as presented in Table 7. The environmental factors considered included permanent impacts to streams, wetlands (both jurisdictional and isolated), open water ponds, and floodplains.

Environmental Factor	Alternative A	Alternative B	Offsite Alternative
Jurisdictional Wetland Impacts (acres)	7.33	6.51	None
Isolated Wetland Impact (acres)	8.60	8.60	13.59
Stream Impacts (linear feet)	617	563	3,871
Jurisdictional Open Water Impacts (acres)	None	None	None
Non-jurisdictional Open Water Impacts (acres)	3.57	3.57	1.02
Regulated Floodplain Impacts (acres)	None	None	7.71
Least Environmentally Damaging Practicable Alternative?	NO	YES	NO

 TABLE 7

 Practicable Alternatives Comparison Matrix for Environmental Factors

As detailed in Section 3, the New Albany Tech Park property (Alternatives A and B) contains 7.33 acres of jurisdictional wetlands and 3,946 linear feet of stream. Alternative B proposes to impact 6.51 acres of jurisdictional Category 2 wetland and 563 linear feet of intermittent stream.



Alternative B will preserve 0.82 acre (11%) of the jurisdictional wetlands and 3,383 linear feet (86%) of the stream habitat on the site. In contrast, Alternative A proposes to impact all 7.33 acres of jurisdictional wetlands and will preserve 3,329 linear feet (84%) of stream channel. Isolated wetland impacts and non-jurisdictional open water impacts are the same between the alternatives. No work will occur in regulated floodplain areas on the property.

There are significant water resources located on the Offsite Alternative, including approximately 23.76 acres of isolated wetlands, 3,871 linear feet of stream, and 1.02 acres of non-jurisdictional ponds. The onsite wetlands include at least one (1) large, forested, potential Category 3 wetland, totaling approximately 10 acres. The required area and configuration for the development would require the development to completely surround the Category 3 wetland, would impact 13.59 acres of the other onsite wetlands, and would require piping 3,871 linear feet of stream. In addition, the Offsite Alternative is the only alternative which would require impacts to regulated floodplains. If the project were to be implemented on the Offsite Alternative, nearly all of the onsite resources, aside from the potential Category 3 wetland, would be impacted, resulting in significantly greater impacts as compared to the chosen site.

The New Albany Tech Park site has been determined to meet all required criteria, providing approximately 442.5 acres of property with sufficient space for over 5 million square feet of development. Moreover, environmental impacts, particularly to isolated wetlands, streams, and associated floodplain, are significantly less as compared to the Offsite Alternative. These impacts have been further reduced under Alternative B by modifying the project design. As such, Alternative B is the Least Environmentally Damaging Practicable Alternative (LEDPA) amongst the alternatives considered.

5.2.4 Avoidance

MBJ Holdings has avoided onsite wetlands and streams on the Tech Park site to the maximum extent practical. However, it is not practical to avoid all the onsite surface water resources, given their locations across the site. Given the size requirements of the proposed development and the presence of wetlands and streams throughout much of the site, it is not possible to implement the project on the site without impacting water resources. As described herein, given the project purpose and objectives, Alternative B was determined to be the LEDPA.

Accordingly, MBJ Holdings focused on avoiding the highest quality areas on the site. Alternative B will avoid approximately 6.68 acres of forested Category 2 wetlands and 3,383 linear feet of ephemeral and intermittent streams on site. The wetlands avoided include almost all of the largest and highest scoring wetlands on the site, including all of Wetland O (2.08 acres), Wetland P (1.70 acres), Wetland Q (2.08 acres) and most of Wetland L (0.82 acre). Avoidance of ephemeral Stream 2 will preserve the hydrologic connectivity between Wetland L and Stream 1. Furthermore, impacts to Blacklick Creek and its floodplain impacts have been avoided under this alternative. Stormwater management infrastructure on the site has been carefully considered to ensure that the hydrology to avoided wetlands and streams is maintained, with a focus on improving the quality of runoff in accordance with state and local requirements. The stormwater management plan is further discussed in Section 5.8.



5.2.5 Minimization

Alternative B shows how the site plan can be reconfigured to reduce impacts to Wetland L and Stream 2 while still meeting the applicant's needs. The reconfiguration results in the loss of 41,712 square feet of building space, approximately 127 permanent jobs, and the associated state/local tax revenue. However, the reduced square footage continues to meet the minimum requirements of the user. Social and economic considerations related to the project are discussed in more detail in Section 5.5.

5.2.6 <u>Mitigation</u>

As described in the previous sections detailing the alternatives analysis, it is not possible to implement the proposed development on the New Albany Tech Park site without impacting water resources. As such, MBJ Holdings is proposing to mitigate for those impacts that cannot be avoided. The proposed compensatory mitigation will be "in-kind" with respect to the structural and functional types of resources to be impacted, and will be provided based on the mitigation ratios described in OAC 3745-1-54. The mitigation is described in Section 7.

In accordance with 33 CFR Part 332 and ORC 6111.30, compensatory mitigation shall be provided in the following preferred order:

- 1) At a mitigation bank approved in accordance with 33 CFR 332.8;
- 2) Through an in-lieu fee mitigation program approved in accordance with 33 CFR 332.8; or
- 3) At a permittee-responsible compensatory mitigation site located in accordance with 33 CFR 332.3(b).

As described in Section 7, MBJ Holdings is proposing to provide mitigation through the purchase of wetland mitigation bank credits and through the use of permittee-responsible pooled stream mitigation credits. As MBJ Holdings is proposing to deviate from the preferred mitigation order for the stream mitigation, the following justification is provided per 33 CFR Part 332 and OAC 3745-1-54.

Availability of Mitigation Bank or In-Lieu Fee Programs

Through consultation of the USACE Regulatory In-Lieu Fee and Bank Information Tracking System (RIBITS) and coordination with the mitigation providers, it was determined that Stream + Wetlands Foundation (S+WF) has stream in-lieu fee mitigation credits available in the watershed.

Cost of Mitigation Bank or In-Lieu Fee Credits

The cost for stream in-lieu fee mitigation credit is \$330 per linear foot from Stream + Wetlands Foundation. As outlined in Section 7, MBJ Holdings anticipates that up to 855 linear feet of stream mitigation credit will be required for the proposed stream impacts (563 linear feet of intermittent stream) associated with New Albany Tech Park Alternative B. Thus, the cost of purchasing the required stream mitigation credits from the in-lieu fee program is approximately \$282,150.



The proposed source for stream mitigation for the project (the Avis Road Pooled Mitigation Site) functions as private mitigation bank for MBJ Holdings, as it created mitigation for future impacts that may be incurred by MBJ Holdings in the watershed. MBJ Holdings already owns all of the property on which the permittee-responsible stream mitigation is to occur for the New Albany Tech Park project, and the stream mitigation construction is currently underway. The cost for the proposed permittee-responsible stream mitigation is a sunk cost, as it has already been incurred by MBJ Holdings. Thus, utilizing the pooled credit on this offsite property is the most cost-effective stream mitigation option for the applicant.

Ecological Benefits of Proposed Mitigation

Mitigation for intermittent stream impacts will be accomplished via permittee-responsible mitigation at the Avis Road Pooled Mitigation Site. MBJ Holdings has a long, successful record of implementing successful permittee-responsible mitigation projects. MBJ Holdings has a long-held partnership with the City of New Albany to implement its mitigation projects locally, for the benefit of the New Albany community. Typically, the mitigation areas are utilized by the City as passive natural parkland following completion of the mitigation monitoring. This arrangement has had strong local support, including the support of City Council and the Rocky Fork-Blacklick Accord Implementation Panel.

The proposed stream impact will occur along the headwaters of Duncan Run (Stream 3) within the Duncan Run subwatershed (05060001-13-07). The proposed permittee-responsible stream mitigation will be implemented on property located in the Headwaters Blacklick Creek (HUC 05060001-15-03) subwatershed. As previously stated, the overall New Albany Tech Park project site falls primarily within both of these subwatersheds. Enhancing and restoring the water resources at the proposed offsite location ensures that the ecological benefits of the mitigation are achieved within the Upper Scioto Watershed (HUC 05060001), the same watershed as the project impacts. While the proposed stream mitigation will be conducted in an adjacent subwatershed to the proposed stream impact, the impact and mitigation sites are spatially located in relatively close physical proximity (less than 5 miles) to each other.

Acceptance of mitigation that deviates from the preferred order specified in OAC 3745-1-54 may be approved by the Ohio EPA based upon sufficient demonstration of financial burden and ecological benefit. Moreover, as described in 33 CFR 332.3, when evaluating compensatory mitigation options, the USACE District Engineer must assess the likelihood for ecological success and sustainability, the location of the compensation relative to the impact site and its significance within the watershed, and the costs of the compensatory mitigation project. Based on the foregoing, MBJ Holdings requests that the Ohio EPA and the USACE consider the deviation from the preferred order proposed for the stream mitigation as justified in this case.

5.3 Magnitude of the Proposed Lowering of Water Quality (1.3)

As described previously in Table 6, construction of Alternative B would permanently impact (fill) 563 linear feet of intermittent Stream 3 and 6.51 acres of jurisdictional wetlands to accommodate the proposed development. Flow from Stream 3 will be diverted to the on-site stormwater system and conveyed via pipe to the planned stormwater basins, ultimately discharging at the northern



end of the project area. The material to be discharged within the onsite water resources would include clean earthen fill material, to be placed via standard earthmoving practices. The potential impacts to habitat, biota, human health and welfare, recreation, and aesthetics associated with these proposed fills are detailed below.

Stream and Wetland Habitat Impacts: Under Alternative B, stream and wetland habitat would be impacted through the permanent loss of 563 linear feet of intermittent headwater stream and 6.51 acres of jurisdictional wetlands. The five (5) jurisdictional wetlands to be permanently impacted on site are all Category 2 forested wetland habitats.

All of the streams and wetlands to be impacted on the site have been previously disturbed by agricultural activities, including tiling, ditching, selective cutting/logging, mowing, and farming. Because the resources onsite are not unique or rare natural systems, the functions and values of the impacted waters can be replaced through the proposed mitigation (see Section 7).

Impacts to Stream Biota: Approximately 563 linear feet of Stream 3/Duncan Run, an intermittent headwater, is proposed to be filled for the project. Stream 3 is a historically channelized waterway with no sinuosity and a primarily silt substrate. This stream does not support permanent populations of fish and has been heavily influenced by historic and ongoing agricultural activities. Based on the observed habitat and substrate characteristics within Stream 3, it is not expected to contain rare or unique biota. Accordingly, the project is not anticipated to significantly adversely affect stream biota.

Impacts to Wetland Biota: EMH&T did not conduct a biological assessment of the wetlands on this site. ORAM scores of 30 to 54, indicative of Category 2 wetlands, applied to all jurisdictional wetlands that are to be impacted. These moderate quality wetlands are common to Ohio and not regionally scarce. While several of the wetlands contain amphibian breeding habitat (vernal pools), the wetlands containing the most abundant and highest quality vernal pools on the project site (isolated Wetlands O, P and Q) are being avoided.

Quality of Aquatic Community: As demonstrated by the habitat assessment of the stream and wetland features to be impacted via the HHEI and ORAM, the overall quality of the aquatic communities on this site is generally expected to be poor to moderate. This expectation is based on the current surrounding land uses, historic disturbances to the resources, and the fact that the resources to be impacted are not unique or rare within the locality or the state. The stream and wetlands to be impacted will be permanently filled, resulting in the elimination of aquatic life from these areas. However, the onsite preservation of nearly six (6) acres of existing Category 2 wetlands and nearly 3,400 linear feet of primarily intermittent stream and adjacent floodplain would provide a potential refuge for existing aquatic species such as frogs, salamanders, and insects to re-colonize.

Impacts to Terrestrial Biota: Construction and grading activities would impact vegetation through removal of existing trees, shrubs and herbaceous ground cover within portions of the project site. No impacts are anticipated to occur to threatened/endangered terrestrial species, as none are known to exist on the site. Few terrestrial biota, including birds, amphibians, reptiles, small mammals, etc. are expected to be disturbed or displaced during construction. These wildlife species could recolonize to other portions of the site not being disturbed or habitat located on adjacent parcels.



Human Health Impacts: Since the surface waters on the site are not used for direct contact recreation or as a direct source of drinking water, no impacts are expected to occur to human health due to the potential implementation of Alternative B.

Recreational Impacts: The size and quality of the existing surface waters on site make recreational opportunities such as fishing and swimming effectively non-existent. The area could potentially support wildlife observation and passive recreation; however, the site is privately owned and is not currently used for any recreational activities.

Social, Economic and Aesthetic Impacts: No significant, direct loss of jobs is anticipated due to the development of the subject property, as it does not support any tourism, recreational pursuits, or commercial economic activity. The project may have an indirect impact on agricultural activities as portions of the site are currently being actively farmed.

5.4 Technical Feasibility and Cost Effectiveness (1.4)

Alternative B provides for the potential development of approximately 5 million square feet of space across the proposed campus, which could include 26 buildings and associated parking, stormwater facilities, and internal roadways throughout the 442.5-acre project site. Based on the economic benefits for the entire project, as discussed in Section 5.5 and outlined in the Social and Economic Justification (SEJ) table in Attachment 5, Alternative B is the more cost-effective alternative, compared to the off-site alternatives, as it pertains to the developable use of the site.

Alternative B is a technically feasible design and optimizes land use on the site. The proposed layout and dimensions of the buildings on this site are somewhat fixed by certain industry standards. The building sizes determine the amount of required parking for each building and required stormwater detention for each building. The development has been laid out to accommodate the required minimum square footage and provide access to Clover Valley Road, Jug Street, Mink Street, and a planned Harrison Road extension project being conducted separately by others, as well as all necessary utilities.

5.5 Social and Economic Considerations (1.5)

The proposed potential development under Alternative B provides for a campus of 26 buildings, providing approximately 5 million square feet of occupiable business space, which will provide flex office, warehouse, and maintenance facility space. The project will also include associated parking, stormwater basins and internal roadways. At full build out, the facility could potentially support an estimated 6,809 permanent jobs and potentially create an estimated 200 new temporary (construction) jobs.

The permanent positions could potentially result in an estimated annual payroll of approximately \$544.7 million, while the new temporary jobs could potentially result in another \$12 million of annual payroll. Using these assumptions, the total estimated annual payroll taxes for the new permanent positions would be approximately \$109 million, while the estimated annual payroll taxes for the temporary jobs would be approximately \$2.4 million. The permanent state and local annual income and property taxes generated from the proposed complex would exceed \$36



million annually, based on the taxable real estate and income taxes for the development. The potential projected social and economic benefits for the project are shown in the Social & Economic Justification (SEJ) Table in Attachment 5.

Franklin County and Licking County have unemployment rates of 3.9% and 3.8%, respectively, as of August 2022, according to the Bureau of Labor Statistics (USBLS 2022). Franklin County and Licking County have poverty rates of 14.2% and 12.2%, respectively, according to the 2021 estimate provided by the U.S. Census Bureau. Moreover, a study completed by the United Way in 2018 showed that 28 percent of households in Franklin County and 24 percent of households in Licking County are "asset limited, income constrained, employed" (ALICE), meaning they earn less than the amount needed to provide for housing, childcare, food, transportation and health care (United Way et Al., 2020). It is anticipated that these metrics related to poverty and income have worsened as a result of the COVID-19 pandemic. Accordingly, these jobs and the associated tax revenues would have significant, positive social and economic impacts for the surrounding area.

5.6 Cumulative Impact (1.6)

5.6.1 Land Uses in 12-Digit HUC

The permit area is located within three subwatersheds. Approximately 140 acres of the site is located in Duncan Run (05060001-13-07), approximately 268 acres is in Headwaters Blacklick Creek (05060001-15-03), and approximately 35 acres of the eastern portion of the site is located in Headwaters Raccoon Creek (05040006-03-01). These watersheds are further described below. Land uses within the vicinity of the project area are shown on Exhibit 2.

The Duncan Run subwatershed encompasses 16.79 square miles of land north of New Albany and east of Hoover Reservoir within the Upper Scioto River watershed. The U.S. EPA EnviroAtlas (USEPA 2022) indicates that there are approximately 24.4 miles of stream within the Duncan Run subwatershed, and approximately 0.17% of the subwatershed is comprised of wetlands. According to the Ohio 2020 Integrated Water Quality Report for 2020 (Ohio EPA, 2020), the subwatershed is comprised of approximately 75.4% agricultural land use (e.g., row crops and pasture), 18.4% forest, 5.8% developed land use (e.g., residential and commercial development), and 0.5% other land uses.

The Headwaters Blacklick Creek subwatershed encompasses 48.88 square miles of land extending from north of State Route 161 to south of Interstate 70. This subwatershed includes eastern New Albany and significant portions of Blacklick and Reynoldsburg. There are approximately 98 miles of stream located within the subwatershed, and approximately 0.43% of the subwatershed is comprised of wetlands according to the U.S. EPA EnviroAtlas (USEPA 2022). According to the Headwater of Blacklick Creek Nine-Element Nonpoint Source Implementation Strategic Plan (NPS-IS Plan) (Franklin Soil and Water Conservation District, 2016), the watershed is comprised of approximately 12% impervious cover (e.g., residential and commercial development), 23% agricultural cover (e.g., pasture and row crop), and 24% forest. The balance is open space. Agricultural land uses within the watershed are expected to decline with development growth anticipated along the State Route 161 corridor.



The Headwaters Raccoon Creek subwatershed encompasses 27.01 square miles of land extending north and south of the Village of Johnstown within the Licking River watershed. There are approximately 53 miles of stream located within the subwatershed and approximately 0.15% of the subwatershed is comprised of wetlands according to the U.S. EPA EnviroAtlas (USEPA 2022). Per the Ohio 2020 Integrated Water Quality Report for 2020 (Ohio EPA, 2020), the subwatershed is comprised of approximately 72.8% agricultural land use (e.g., row crops and pasture), 18.2% forest, 8.7% developed land use (e.g., residential and commercial development), and 0.3% other land uses.

5.6.2 Water Resources in 12-Digit HUC

The primary water resource in HUC 05060001-13-07 is Duncan Run. Duncan Run originates within the eastern portion of the New Albany Tech Park project site, flowing north from Wetland R and then eventually west for approximately 13 miles to its confluence with Hoover Reservoir (Big Walnut Creek). Duncan Run is designated as WWH per OAC 3745-1-09. Per the Total Maximum Daily Loads for the Big Walnut Creek Watershed (Ohio EPA, 2005), Duncan Run is in non-attainment of its WWH use designation. Ohio EPA indicates that the biological communities in Duncan Run are most significantly impacted by nutrient loading, siltation and pathogens stemming from home sewage treatment systems (HSTS) and agriculture, as well as habitat alternation stemming from channelization and removal of riparian vegetation.

The primary water resource in HUC 05060001-15-03 is Blacklick Creek, which begins just to the southeast of the project site and then flows through the western portion of the Tech Park. Blacklick Creek is designated as WWH per OAC 3745-1-09; the headwaters in proximity to the project sites are in non-attainment of that use designation per the *Total Maximum Daily Loads for the Big Walnut Creek Watershed* (Ohio EPA, 2005). This is primarily due to nutrient loading and organic enrichment from HSTS and dairy cow operations. There are approximately 98.5 miles of stream located within the subwatershed according to the U.S. EPA EnviroAtlas. According to the EnviroAtlas, approximately 0.3% of the subwatershed is comprised of wetlands.

The primary water resources in HUC 05040006-03-01 are Raccoon Creek and Kiber Run. Kiber Run originates approximately 0.75 mile north of the site and flows north and then west for approximately 4.6 miles to its confluence with Raccoon Creek. Kiber Run is undesignated; Raccoon Creek is designated as WWH per OAC 3745-1-24. Upstream of the confluence with Kiber Run, near RM 23.7 and 23.9, Raccoon Creek is in partial attainment of its WWH use designation per the *Biological and Water Quality Study of the Licking River and Selected Tributaries* (Ohio EPA, 2012). This partial attainment was primarily attributed to the Johnstown wastewater treatment plant, as well as residential and commercial development near State Route 62.

5.6.3 Known Past, Present and Future Activities

The Duncan Run, Headwaters Black Creek, and Raccoon Creek subwatersheds have been historically dominated by agricultural land uses. Within the southern portions of the Duncan Run and Raccoon Creek subwatersheds and the headwaters of Blacklick Creek, agriculture is expected to decline as commercial and residential development expands along State Route 161 east of New Albany. The New Albany International Business Campus, located off Beech Road north of State Route 161, has continued to expand over the past several years and provided thousands of jobs to the area



economy. To date, the business campus is estimated to have created over 21,000 jobs and represents over \$9 billion in total investment. Similarly, the Intel Semiconductor Manufacturing Facility, Facebook NAO Data Center, Google New Albany Data Center, Amazon New Albany Fulfillment Center and Amgen Biomanufacturing Plant are currently under construction. These developments collectively represent \$22.1 billion in additional investment, and are anticipated to employ more than 4,200 permanent workers when complete.

Nearly 5,200 acres of ground have been developed in association with the business campus and other commercial/industrial projects, mostly in the Headwaters Blacklick Creek subwatershed. However, stream and wetland impacts within these developed areas were minimized by avoiding and preserving the highest quality stream and wetland features. For those surface water impacts that were unavoidable, the mitigation completed has resulted in an increase of wetland acreage. The development also removed over 3,800 acres from active agricultural use, eliminating nonpoint source pollution from nutrient runoff.

Beyond the recent commercial and industrial development efforts, agricultural fields and cattle pasture continue to comprise the majority of the subwatershed areas. The historical and ongoing agricultural activities have significantly altered local stream, riparian and wetland habitats and have contributed to nonpoint source pollutant loading. Drainage across the majority of the subwatersheds is influenced by drain tiles and most of the local waterways have been ditched and channelized, contributing to sedimentation and nonpoint source pollutant loading. HSTS on rural estates also contribute to nutrient pollution.

South of State Route 161, the subwatershed is dominated by urban and suburban residential developments of Blacklick and Reynoldsburg. This urbanization has had attendant impacts on surface water resources, and the associated increase in impervious cover has contributed to increased stormwater runoff and pollutant loading. Due to the high rates of forecasted population growth within the next several years and associated land use impacts, the Blacklick Creek watershed has been identified by Ohio EPA as a "Rapidly Developing Watershed." Rapidly developing watersheds are subject to increased permit requirements and an accelerated implementation schedule under the Ohio EPA National Pollutant Discharge Elimination System (NPDES) Phase II General Permits. This provides protection for water quality, habitat and aquatic life within the watershed.

Despite significant population growth and ongoing agricultural activities, Ohio EPA has determined that fish and aquatic communities are in fair condition within the Blacklick Creek watershed. The *Big* Walnut Creek Watershed TMDL (Ohio EPA, 2005) reported that approximately 62% of Blacklick Creek is in full attainment of WWH aquatic life use goals. Those segments found to be in non-attainment are located in the headwaters north of Morse Road. The biological communities in the headwaters are most significantly impacted by failing HSTS and dairy cow operations.

The proposed development will remove approximately 260 acres of land from active agricultural production, precluding future impacts related to agricultural land uses. Sanitary sewer service, which will be extended to the site, will also lead to removal of HSTS. The development will significantly increase impervious cover across the permit area, but as discussed in Section 5.8, onsite stormwater facilities will be employed to effectively address potential adverse water quality and quantity impacts.



5.7 Indirect (Secondary) Impacts (1.7)

Alternative B would result in the loss of 563 linear feet of intermittent stream and 6.51 acres of jurisdictional wetland. These surface resources would be filled to allow for the development of the proposed tech park facilities and associated infrastructure.

The ecological and hydrological functions of the onsite streams and wetlands would be reduced by the project. However, approximately 3,383 linear feet of stream, 0.82 acres of jurisdictional, Category 2 wetlands (Wetland L), and 5.86 acres of isolated, Category 2 wetland (Wetlands O, P, and Q) onsite will be avoided and will continue to provide ecological functions.

In regard to offsite impacts, the majority of the surrounding area has been previously impacted by agricultural practices and recent commercial/industrial development. The project is located in proximity to the Beech Road North District, which includes recent significant light industrial manufacturing developments. The southern portion of the Blacklick Creek watershed includes developed areas in Jefferson Township, Blacklick, and Reynoldsburg. Downstream surface water resources could be indirectly impacted by changes to the onsite surface contours and drainage, reduction of riparian buffers and elimination of wetlands on the project site. However, sediment and erosion controls during project construction would protect downstream populations from project-related impacts stemming from in-water activities. Further, the proposed stream and wetland mitigation would serve to provide in-kind habitat within the Upper Scioto 8-digit watershed.

5.8 Stormwater Management Plans (1.8)

5.8.1 Construction Stormwater Management Plans

Best Management Practices (BMPs) for sediment and erosion control would be implemented at all times during the construction of any portion of the proposed development. These BMPs may include silt fence, compost filter sock, temporary and permanent seeding and mulching, construction road stabilization, temporary inlet protection, and wet basins with skimmers installed for construction and post-construction use. The proposed basins will function as temporary sediment basins during construction and may be converted to permanent wet basins following construction.

A stormwater permit and Stormwater Pollution Prevention Plan (SWPPP) for construction activities would be prepared for the site development, following the requirements of the National Pollutant Discharge Elimination Systems program and the Ohio EPA Stormwater Program. Appropriate, site-specific BMPs will be included in construction plans to decrease erosion and sedimentation during and after construction of the proposed development including the placement of sediment fence and/or compost filter sock inside impact areas. All sediment controls that would be utilized would be kept in place during construction activities and would remain until the site has been stabilized. All areas disturbed during construction would be seeded to encourage the establishment of a vegetative cover and decrease erosion potential. No area shall be left unstabilized if no additional disturbance is anticipated in the next 14 days, in which case erosion controls shall be applied within seven days of the most recent disturbance.



5.8.2 Post-construction Stormwater Management Plans

Post-construction stormwater control on the site would rely upon structural controls that include multiple wet retention basins constructed across the approximately 442.5-acre permit area, as shown on Exhibit 10. The basins would serve to remove pollutants from stormwater runoff, reduce downstream erosion, and provide flood control. Runoff from the site would be routed to these storage facilities, which will provide quantity and quality control as required by state and local requirements, before discharging to tributaries of Raccoon Creek (05040006-03-01), Duncan Run (HUC 05060001-13-07), and the Blacklick Creek headwaters (HUC 05060001-15-03).

The stormwater retention basins would detain the post-development stormwater runoff and discharge the runoff at or below the pre-developed peak discharge rates. The basins would provide extended detention time for the purposes of meeting post-construction water quality design criteria. The basin outlet structures would be designed to provide a minimum 24 hour drain time per the Ohio EPA's General Permit requirements for post-construction water quality. The proposed permanent wet basins may be used as temporary sediment basins during construction to manage sediment runoff resulting from land disturbing activities. Skimmers would be attached to the permanent wet basin outlet structures to provide the proper 48-hour drawdown.



6.0 PROJECT MAPPING

6.1 Site Existing Conditions

6.1.1 Site Location and Vicinity

As shown on Exhibit 1, the site is located east and west of Clover Valley Road, north of Jug Street, and south of Miller Road in the City of New Albany, Licking County, Ohio. The site generally consists of active agricultural fields, forested woodlots and fencerows, scrub-shrub habitat, and maintained residential properties. As shown on Exhibit 2, major surrounding land uses within one mile of the site include cultivated crops, pasture, forest and developed land. Areas to the north between Clover Valley Road and Mink Street, south of Green Chapel Road, are currently under development as an Intel semiconductor chip manufacturing plant.

6.1.2 <u>Topographic Features</u>

As shown on Exhibit 3, the majority of the study area lies between approximately 1,160 feet and 1,200 feet in elevation (National Geodetic Vertical Datum) according to the United States Geological Survey (USGS) 7.5' Series Jersey, Ohio quadrangle (USGS, 1975). The USGS map shows two (2) ponds corresponding with Pond 3 and Pond 4/Wetland U, and marsh symbols corresponding with jurisdictional Wetland L and isolated Wetlands O and P. In addition, two (2) intermittent streams, corresponding to Stream 1 (Blacklick Creek) and Stream 2 (Duncan Run), are noted.

6.1.3 Mapped Soils

According to the Web Soil Survey for Licking County, Ohio (USDA-NRCS, 2021) as shown on Exhibit 4A, the site contains seven (6) soil types. These soils are listed below in Table 8 along with their hydric status. According to the *Hydric Soils List* for Licking County, Ohio, Condit silt loam and Pewamo silty clay loam are listed as hydric soils (USDA-NCRS, 2022). The remaining soils on the site are non-hydric with hydric inclusions.

Mapped Soil Unit	Hydric Status	Hydric Inclusions %	Location of Hydric Inclusions
Bennington silt loam, 0 to 2 percent slopes (BeA)	Partially hydric	Condit (5%) Pewamo (3%)	Drainageways, Depressions
Bennington silt loam, 2 to 6 percent slopes (BeB)	Partially hydric	Condit (3%) Pewamo (3%)	Drainageways, Depressions
Centerburg silt loam, 2 to 6 percent slopes (Cen1B1)	Partially hydric	Condit (4%) Marengo (3%)	Drainageways, Depressions
Centerburg silt loam, 6 to 12 percent slopes, eroded (Cen1C2)	Partially hydric	Condit (4%)	Drainageways
Condit silt loam, 0 to 1 percent slopes (Cn)	Hydric	-	
Pewamo silty clay loam (Pe)	Hydric		

TABLE 8 Mapped Onsite Soils



The historical Soil Survey of Licking County, Ohio (USDA, 1992), depicts three (3) streams (Blacklick Creek and a small tributary, and Duncan Run), two (2) open water ponds (Ponds 3 and 4), and one wetland symbol corresponding to Wetland P within the study area (Exhibit 4B).

6.1.4 Hydrologic Conditions

As shown on Exhibit 5, the United States Fish and Wildlife Service's (USFWS) National Wetland Inventory (NWI) map was reviewed for the site (USFWS, 2019). The following features are mapped partially or entirely within the project area:

- Two (2) Palustrine, Unconsolidated Bottom, Intermittently Exposed, Excavated (PUBGx) features. One of these corresponds to Pond 3.
- One (1) Riverine, Intermittent, Streambed, Seasonally Flooded (R4SBC) feature, corresponding to Stream 1.
- Two (2) Palustrine, Aquatic Bed, Intermittent Exposed (PABG) features. One of these corresponds to Pond 6.
- One (1) Palustrine, Emergent, Persistent, Seasonally Flooded (PEM1C) feature, which roughly corresponds with Wetland 34.

As shown on Exhibit 6, the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) was reviewed for the study area. The entirety of the project area lies within Zone X (unshaded), which are areas mapped outside the 500-year floodplain.

6.1.5 Surface Water Resources

Exhibit 7 shows the location and extent of identified surface water features on the project site, overlaid on a scaled 2021 aerial photograph. As shown on Exhibit 7, the site includes three (3) streams, five (5) jurisdictional wetlands, eighteen (18) isolated wetlands (or portions thereof), and five (5) non-jurisdictional ponds.

6.2 Alternatives Analysis Mapping

Exhibit 8 presents the Off-Site Alternative. Exhibits 9 and 10 show the layouts for onsite Alternative A and Alternative B (LEDPA).


7.0 PROPOSED MITIGATION AND MONITORING PLAN

A mitigation and monitoring plan is required for this project as part of the Individual Permit review and pursuant to Ohio Administrative Code 3745-1-05. The mitigation discussion that follows describes the mitigation proposal for Alternative B. A discussion of how the amount of required mitigation was determined is provided, along with the overall objectives of the mitigation plan.

The sequence of the mitigation discussion below follows the format of the Ohio EPA Section 401 Water Quality Certification Application Completion and Submittal Instructions (rev. 09/2020), as described under Item 7 thereof.

7.1 Mitigation Overview

Under Alternative B, the proposed jurisdictional impacts include 563 linear feet of stream and 6.51 acres of jurisdictional wetland. MBJ Holdings proposes to mitigate for the proposed wetland impacts via purchase of mitigation bank and in-lieu fee credits. Mitigation for stream impacts is proposed to occur via permittee-responsible mitigation. The proposed mitigation is discussed in the following subsections.

7.1.1 Wetland Mitigation

Compensatory mitigation for jurisdictional wetland impacts will be accomplished via the purchase of wetland mitigation bank and/or in-lieu fee credit in accordance with the mitigation ratios described in OAC 3745-1-54. Based on the proposed impacts under Alternative B, the required wetland mitigation is provided in Table 9.

Wetland	Classification	ORAM Category	Impact (ac)	Mitigation Ratio	Mitigation Acreage	
Wetland K	Forested	2	0.20	2.5:1	0.500	
Wetland L	Forested	2	0.33	2.5:1	0.825	
Wetland R	Forested	2	5.53	2.5:1	13.825	
Wetland S	Forested	2	0.20	2.5:1	0.500	
Wetland V	Forested	2	0.25	2.5:1	0.625	
Total		-	6.51		16.275	

TABLE 9 Alternative B Wetland Impacts and Required Mitigation

As shown in Table 9, 16.275 acres of wetland mitigation credit is required based on the project impacts and required mitigation ratios. Mitigation credit will be purchased from the S+WF Upper Scioto Umbrella Mitigation Banking Instrument (UMBI). Credits must be purchased in increments of 1/10 acre. Accordingly, 16.3 acres of forested mitigation credit must be purchased.

As reflected on the proof of mitigation purchase (Attachment 7A), a total of 18.1 acres of forested wetland mitigation credit will be purchased from the UMBI, and an additional credit will be purchased from the S+WF Huntington District ILFP Scioto River Service Area and Muskingum River Service Area, as the agreement includes mitigation for additional isolated wetland impacts on the site, which are subject to a pending Level 3 Isolated Wetland Permit. Mitigation for the jurisdictional



impacts will include 16.3 acres of forested credit from the S+WF UMBI. A summary of the mitigation purchased from the S+WF for both the jurisdictional and isolated wetland impacts on the site is provided in Attachment 7A.

7.1.2 Stream Mitigation

Compensatory mitigation for the proposed stream impacts will be accomplished by utilizing a portion of the remaining credit established and pooled at the Avis Road Pooled Mitigation Site. The Avis Road Pooled Mitigation Site Stream Mitigation Plan was submitted and reviewed in association with the Beech Road SW Site C Project (LRH-2020-135-SCR-Unnamed Tributary Blacklick Creek; OEPA ID 206833A). Construction of the mitigation area is currently underway and anticipated to be complete by the end of 2022. The updated mitigation balance sheet for the Avis Road Pooled Stream Mitigation Site is included as Attachment 7B.

The Avis Road Pooled Stream Mitigation Site includes stream channel restoration/establishment and enhancement along Stream 1 (an unnamed tributary to Ackerburg Ditch), a direct tributary to Blacklick Creek. This stream mitigation is located approximately five miles south of the New Albany Tech Park. As described in the mitigation plan, the Avis Road Pooled Mitigation Site generated a total of 8,007 stream mitigation credits though channel restoration and enhancement activities. A total of 844.5 linear feet of the remaining stream mitigation credit will be applied to New Albany Tech Park.

The analysis of the proposed permittee-responsible stream mitigation was completed in accordance with the Guidelines for Stream Mitigation Banking and In-Lieu Fee Programs in Ohio Version 1.1 (USACE, 2016). It is important to note that this document is provided as guidance, and does not represent rule or regulatory requirement. Based on this guidance, up to 844.5 impact debits may be associated with the proposed stream impacts under Alternative B. The analysis of the impact debits and mitigation credits is presented in Table 10.

TABLE 10 Stream Impact Debits and Proposed Mitigation Credits for Alternative B

a. Impact	S				
Stream ID	Туре	ALU	Impacted Length (If)	Debit Ratio	Debits (If)
Stream 3 (Duncan Run)	Group 1; intermittent stream with silt substrate	wwн	563	1.5:1	844.5
Total	_	-	563		844.5

b. Mitigation

Stream ID	Mitigation Type	Length (If)	Credit Ratio	Credits (If)	
Avis Rd. Stream 1	Restoration (Type 1, Level 1)	422.25	2:1	844.5	
Total		-		844.5	



7.2 Wetland Mitigation Bank

The proposed mitigation includes purchase of wetland mitigation credit from the S+WF Upper Scioto UMBI. Per Item 7, Section 2 of the 401 WQC Application Submittal Instructions, the following information is provided:

- 1) The proof of mitigation purchase is provided in Attachment 7A.
- 2) The required wetland mitigation credit will be purchased from S+WF Upper Scioto UMBI.
- 3) A total of 18.1 acres of forested credit will be purchased.
- 4) The mitigated wetlands include both jurisdictional and isolated wetlands.
- 5) The mitigation bank is located in the Upper Scioto watershed (8-digit HUC: 05060001).
- 6) The proposed project is located in the service area of the mitigation bank (Upper Scioto).

7.3 In-Lieu Fee Mitigation

The proposed mitigation for jurisdictional impacts does not include payment to an in-lieu fee program; this section is not applicable.

7.4 Permittee-Responsible Mitigation Project

Compensatory mitigation for the stream impacts will be accomplished through use of credits from the Avis Road Pooled Mitigation Site. Construction of the stream mitigation project is currently underway and anticipated to be complete by the end of 2022. This mitigation project will provide full-extent channel restoration between Babbitt Road and an existing stream on the Avis Road site, which is an unnamed tributary to Ackerburg Ditch (a direct tributary to Blacklick Creek).

The proposed project will reestablish 3,332 linear feet of natural stream channel, providing appropriate dimension, pattern and profile, riffle/pool sequence, and floodplain connectivity. The adjacent 150-foot wide riparian corridor will be seeded and planted with native live stakes, trees and shrubs to establish a native, forested riparian corridor. An additional 1,343 linear feet of the existing Stream 1 will be enhanced and stabilized on the site. The mitigation area will be protected in perpetuity via a conservation easement as detailed in Section 7.5.

Additional details regarding this stream mitigation project, including site setting, ownership, mitigation activities, monitoring and performance standards, were provided in the Avis Road Pooled Mitigation Site Stream Mitigation Plan (EMH&T, 2020), which was submitted and reviewed in association with Beech Road SW Site C Permit (LRH-2020-135-SCR-Unnamed Tributary Blacklick Creek; OEPA ID 206833A). An updated mitigation balance sheet is provided in Attachment 7B.

7.5 Long Term Protection

Per the requirements of the Ohio Administrative Code and Ohio Revised Code, the proposed stream mitigation area will be protected in perpetuity via an appropriate protective instrument. Specifically, the mitigation area will be protected by a conservation easement which will restrict the current and future use of the mitigation area in perpetuity. The conservation easement will run with the land and be binding on all future persons or interests having acquired the property or its rights.



The conservation easement will be held by the City of New Albany, which meets the requirements of ORC 5301.68 to hold a conservation easement. The applicant has a long-held partnership with the City of New Albany to hold such mitigation property. Typically, the mitigation areas held in an easement by the City are later used by the City as passive natural parkland following completion of the mitigation monitoring. This arrangement has had strong local support, including the support of City Council. Construction of the Avis Road Pooled Mitigation Site is currently ongoing, and the associated conservation easement is anticipated to be recorded in early 2023.



8.0 CITATIONS

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SOCIAL AND ECONOMIC JUSTIFICATION TABLE

	ALTERNATIVE A	ALTERNATIVE B					
	Industrial park including 8 flex	Industrial park including 7 flex					
	office buildings (399,466 SF),	office buildings (357,754 SF),					
	15 warehouse buildings	15 warehouse buildings					
	(4,532,400 SF), and 4	(4,532,400 SF), and 4					
Scope	maintenance facilities (140,800	maintenance facilities (140,800					
	SF) with associated parking,	SF) with associated parking,					
	pads, site entrances and drives,	pads, site entrances and drives,					
	stormwater facilities and	stormwater facilities and					
	infrastructure	infrastructure					
Square Footage	5,072,666	5,030,954					
Total Project Investment	\$ 723,335,880	\$ 715,827,720					
Total Project Construction Cost	\$ 497,767,240	\$ 491,927,560					
New Permanent Jobs	6,934	6,809					
Est. Payroll \$/yr	\$ 554,743,840	\$ 544,732,960					
Est. Federal Income Taxes /yr	\$ 110,948,768	\$ 108,946,592					
Est. State Income Taxes /yr	\$ 19,526,983	\$ 19,174,600					
Est. Local Income Taxes /yr	\$ 11,094,877	\$ 10,894,659					
New Temporary Jobs	200	200					
Est. Temporary Payroll \$/yr	\$ 12,000,000	\$ 12,000,000					
Est. Federal Income Taxes /yr	\$ 2,400,000	\$ 2,400,000					
Est. State Income Taxes /yr	\$ 422,400	\$ 422,400					
Est. Local Income Taxes /yr	\$ 240,000	\$ 240,000					
Estimated Local Property Taxes/yr	\$ 6,183,935	\$ 6,068,287					
Land Donated to Community (acres)	0						
Royalties to ODNR for oil/coal projects	N/A						
County Unemployment Rate (August 2022) ¹	3.8%						
County Poverty Rate, All People (2021) ²	12.2%						
Environmental Benefit	See document						
Social Benefit	See document						
Recreation Benefit	See document						

1. Source: Bureau of Labor Statistics, U.S. Department of Labor

2. Source: 2021 American Community Survey 1-Year Estimates

These projections were prepared by MBJ Holdings LLC based on both historic construction costs in central Ohio and extrapolations from recent similar projects. These projections are subject to Business Risks and are not guaranteed metrics.



Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate John Kessler, Chief 2045 Morse Road – Bldg. E-2 Columbus, OH 43229 Phone: (614) 265-6621 Fax: (614) 267-4764

November 15, 2022

Heather Dardinger EMH&T, Inc. 5500 New Albany Road Columbus, OH 43054

Re: 22-1031; New Albany Tech Park

Project: The proposed project includes the construction of an industrial business park providing multiple office, warehouse, and manufacturing buildings for advanced technology users.

Location: The proposed project is located in Jersey Township, Licking County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Natural Heritage Database: A review of the Ohio Natural Heritage Database indicates there are no records of state or federally listed plants or animals within one mile of the specified project area. Records searched date from 1980.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The project is within the vicinity of records for the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally threatened species. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

In addition, the entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally threatened species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW understands that winter tree clearing from October 1 through March 31 will be implemented. The DOW recommends that trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH \geq 20 be conserved where possible.

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "<u>RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES</u>." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range the lake chubsucker (*Erimyzon sucetta*) a state threatened fish. The DOW recommends no in-water work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact this or other aquatic species.

The project is within the range of the northern harrier (*Circus hudsonis*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

Water Resources: The Division of Water Resources has the following comment.

The <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals for this project.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew at <u>mike.pettegrew@dnr.ohio.gov</u> if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator

United States Department of the Interior



FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994



October 20, 2022

Project Code: 2022-0089745

Re: New Albany Tech Park, Licking County, Ohio

Dear Ms Dardinger:

The U.S. Fish and Wildlife Service (Service) has received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

Federally Threatened and Endangered Species: The endangered Indiana bat (Myotis sodalis) and threatened northern long-eared bat (Myotis septentrionalis) occur throughout the State of Ohio. The Indiana bat and northern long-eared bat may be found wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed that may also include adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, woodlots, fallow fields, and pastures. Roost trees for both species include live and standing dead trees ≥ 3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities. These roost trees may be located in forested habitats as well as linear features such as fencerows, riparian forests, and other wooded corridors. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves, rock crevices and abandoned mines. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule (see https://ecos.fws.gov/ecp/species/9045), incidental take of Indiana bats is still prohibited without a project-specific exemption.

Female Indiana bats exhibit strong site fidelity to summer roosting and foraging areas, meaning that they return to the same area, and often the same trees, to roost year after year. Because the project will result in a large amount of forest clearing relative to the available habitat in the immediately surrounding area, habitat removal could result in significant impacts to Indiana bats. Because of this, the proposed project may result in indirect adverse effects to Indiana bats, even if tree clearing is conducted during the winter season when Indiana bats are not present. Therefore, we recommend that a summer survey be conducted to determine presence or absence

of Indiana bats at the project site. The summer survey must be conducted in coordination with the Ohio Field Office.

Your letter indicates that the project area was already subject to a summer bat survey in conjunction with a larger project area called "Project Dragonfly", TAILS#03E15000-2021-TA-2118, reviewed by this office in August and December 2021. We have reviewed the mist net survey report and prior correspondence on Project Dragonfly. Our review indicates that approximately 60 acres of forest containing streams and wetlands that are proposed to be cleared by the New Albany Tech Park Project were specifically excluded from summer bat surveys as part of Project Dragonfly due to "no tree clearing" (see attached mist net survey report). These areas provide a significant amount of suitable bat habitat and thus we request a summer bat survey be completed within these areas.

If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are also warranted. Portal surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office.

Survey results should be coordinated with this office prior to initiation of any work at the project area. Based on the results of the survey(s), we will evaluate potential impacts to the Indiana bat from the proposed project. If Indiana bats are not detected during the survey, then tree clearing may occur at any time of the year.

<u>Section 7 Coordination</u>: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

<u>Stream and Wetland Avoidance</u>: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (<u>https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf</u>). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not

previously considered, coordination with the Service should be initiated to assess any potential impacts.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Acting Environmental Services Administrator, at (614) 265-6387 or at <u>mike.pettegrew@dnr.state.oh.us</u>.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or <u>ohio@fws.gov</u>.

Sincerely,

Patrice Ashfield Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Eileen Wyza, ODNR-DOW

Dardinger, Heather

From:	Ohio, FW3 <ohio@fws.gov></ohio@fws.gov>
Sent:	Tuesday, August 24, 2021 9:04 AM
То:	twetzel@copperheadconsulting.com
Cc:	Boyer, Angela; Hazelton, Erin; nathan.reardon@dnr.state.oh.us; Parsons, Kate; cleftwich@copperheadconsulting.com; Milligan, Rob
Subject:	Dragonfly Project in Licking County, Ohio - Survey #21-054

Categories:

Filed by Newforma



UNITED STATES DEPARTMENT OF THE INTERIOR U.S. Fish and Wildlife Service Ecological Services Office 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / Fax (614) 416-8994



TAILS# 03E15000-2021-TA-2118

Dear Ms. Wetzel,

The U.S. Fish and Wildlife Service (Service) has received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

We have received your summer bat survey report for the subject project. The survey was conducted following current Service guidelines. No Indiana bats (*Myotis sodalis*) were captured/detected, demonstrating probable absence of Indiana bats in the project area. Currently, the Service has no known hibernacula or maternity roost records for northern long-eared bat (*Myotis septentrionalis*) in the vicinity of the project. Therefore, the 4(d) rule for the northern long-eared bat could be applied

(see: <u>http://www.fws.gov/midwest/endangered/mammals/nleb/index.html</u>). Tree clearing on the project site at any time of the year is unlikely to result in adverse impacts to Indiana bats and will not result in any unauthorized incidental take of northern long-eared bats. Negative Indiana bat summer surveys are valid for five years. Therefore, no tree clearing should occur on the site after March 31, 2026 without further coordination with this office.

<u>Section 7 Coordination</u>: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

<u>Stream and Wetland Avoidance</u>: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (<u>https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf</u>). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army

Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Acting Environmental Services Administrator, at (614) 265-6387 or at <u>mike.pettegrew@dnr.state.oh.us</u>.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or <u>ohio@fws.gov</u>.

Sincerely,

Patrice Ashfield Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Kate Parsons, ODNR-DOW





New Albany Tech Park: S+WF Purchase Summary

Wetland Imp	Wetland Impacts		tegory 1 Ratio		Ratio	Total Impact	Mitigation (ac)	Round	ded
1.			Scio	to River Wate	ershed				
Iuricoliotional	Forested	0		6.51	2.5	6.51	16.275		16.3
Jonsaichonai	Non-Forested	0		0		0	0		0
leal at a d	Forested	0.07	2.0	4.91	2.5	4.98	12.415		12.5
isolatea	Non-Forested	0.75	2.0	1.44	2.0	2.19	4.38		4.4
	Forested	0.07		11.42		11.49	28.69		28.7
Total	Non-Forested	0.75		1.44	1	2.19	4.38		4.4
1 1	Total	0.82		12.86	-	13.68	33.07		33.1
UPPER SCIOT	O UMBRELLA	MITIGATION							
	Forested								18.1
	Non-Forested			X					0
	Total			4					18.1
Total Paymen	t							\$ 995	,500
Deposit								\$ 149	,325
HUNTINGTO	N DISTRICT IN	LIEU FEE*							
	Forested							_	10.6
	Non-Forested					i			4.4
	Total								15.0
Total Paymen	t							\$ 825	i,000
Deposit								\$ 123	,750
			Licki	ng River Wat	ershed				
	Forested	0	·	1.43	2.5	1.43	3.575		3.6
Isolated	Non-Forested	0		0		0	0		0
	Total	0.00		1.43	-	1.43	3.58		3.6
HUNTINGTO	N DISTRICT IN	LIEU FEE							
Total Paymen	t							\$ 198	,000
Deposit								\$ 29	,700
	Forested	0.07		12.85		12.92	32.27		32.3
Grand Total	Non-Forested	0.75		1.44	99	2.19	4.38		4.4
	Total	0.82	-	14.29	-	15.11	36.65		36.7
Total Paymen	t							\$ 2,018	,500
Deposit								\$ 302	2,775

*These are "released" ILF credits (not advance credits) and are considered equivalent to mitigation bank credit.

MITIGATION BALANCE SHEET

MBJ Holdings, LLC Avis Road Pooled Stream Mitigation Site Plain Township, Franklin County, Ohio

 ORIGINAL BALANCE:
 8007.00

 CURRENT BALANCE:
 1767.50

 LATEST REVISION:
 11/9/2022

RUNNING BALANCE:

Project	USACE / Ohio EPA Permit ID#	USACE / Ohio EPA	Stream Impact (linear feet)			Mitigation Credits Utilized (linear feet)			Credit Balance (linear feet)			
		Authorization Date	Perennial	Intermittent	Ephemeral	Total	Restoration	Enhancement	Total	Restoration	Enhancement	Total
								Beginn	ing Balance ¹ :	6,664	1,343	8,007
Beech Road SW Site C	LRH-2019-960-SCR-UNT Blacklick Creek Ohio EPA ID 206833A	USACE: 01/21/2021 Ohio EPA: 12/22/2020	0	1,864	147	2,011	2,606.0	1,343	3,949.0	4,058.0	0	4,058.0
Project Titan EGP	Ohio EPA ID 207044W	01/29/2021	0	0	411	411	411.0	o	411.0	3,647.0	0	3,647.0
Project Charger NWP	LRH-2021-267-SCR	05/07/2021	222	0	0	222	222.0	0	222.0	3,425.0	0	3,425.0
Project Titan NWP	LRH-2020-721-SCR-UNT Blacklick Creek	06/01/2021	0	813	0	813	813.0	o	813.0	2,612.0	0	2,612.0
New Albany Tech Park	TBD	TBD	0	563	0	563	844.5	0	844.5	1,767.5	0	1,767.5
Total			222	3,240	558	4,020	4,897	1,343	6,240			
Current Balance										1,767.5	0	1,767.5

1. The quantity shown reflects the credit available from the stream restoration and enhancement. The mitigation included 3,332 lf of stream restoration (2:1 credit) and 1,343 lf of stream enhancement (1:1 credit).



November 15, 2022

Mr. Brent Bradbury MBJ Holdings 8000 Walton Pkwy, Suite 120 New Albany, OH 43054

RE: New Albany Tech Park 2B Site, Wetlands Mitigation Agreements Clover Valley and Jug St, New Albany, Licking County, OH

ACCT NO.: USUMBI-1, SCIO-187, TUSC-95

Dear Mr. Bradbury:

The Stream + Wetlands Foundation received on November 14, 2022, the required deposit payment for the purchase of a total of 36.7 acres of wetland mitigation credit for the proposed New Albany Tech 2B Site. The Site is located at the intersection of Clover Valley and Jug St., New Albany, Licking County, Ohio. Please find enclosed a copy of the fully executed purchase agreement.

The purchase of 36.7 acres of mitigation credit includes 18.1 acres of forested wetland mitigation credit from the Upper Scioto Umbrella Mitigation Banking Instrument; 10.6 acres of forested and 4.4 acres of non-forested wetland mitigation credit from our Huntington In-Lieu Fee Program, Scioto River Service Area; and 3.6 acres of forested wetland mitigation credit from our Huntington In-Lieu Fee Program, Muskingum River Service Area.

The remaining balance is due within 30 days of the permit issuance date. If you do not receive your permit within the initial six-month reservation period, additional deposit payments will be required as per the terms of our agreement.

Thank you very much for allowing Stream + Wetlands Foundation to assist you with the wetland mitigation needs of this project. Should you need further assistance, please feel free to call anytime.

Sincerely,

Vincent E. Messerly, P.E. President

Cc: Heather Dardinger, EMH&T, via email

Celebrating 25 years! est, 1992

Protect. Enhance. Restore. STREAMANDWETLANDS.ORG