Large Filing Separator Sheet

Case Number: 13-360-EL-BGA

File Date: 1/22/2014

Section: 2 of 3

Number of Pages: 200

Description of Document: Exhibits

and has not been monitored by Ohio EPA for aquatic life and chemical parameters. The HHEI score of 8 for Stream YY identifies it as a Modified Class I intermittent PHWH stream, which constitutes the stream's existing use. Substrates within the assessed reach consisted primarily of clay hardpan with lesser amounts of cobble and gravel.

5.2.41 Stream ZZ

Stream ZZ is an unnamed primary headwaters stream (UT to Buck Creek). Stream ZZ has a watershed area of 0.24 square miles and the stream bed was dry at time of evaluation so was therefore evaluated using the HHEI. Stream ZZ does not have an assigned aquatic Life Use designation and has not been monitored by Ohio EPA for aquatic life and chemical parameters. The HHEI score for Stream ZZ identifies it as a Modified Class II PHWH stream. Substrates within the assessed reach consisted primarily of gravel with lesser amounts of cobble sand and boulder.

5.2.42 Stream ZZ-2

Stream ZZ-2 is an unnamed primary headwaters stream (UT to Buck Creek). Stream ZZ-2 has a watershed area of 0.10 square miles and had a dry channel at the time of assessment therefore was evaluated using the HHEI. Stream ZZ-2 does not have an assigned aquatic Life Use designation and has not been monitored by Ohio EPA for aquatic life and chemical parameters. The HHEI score of 29 for Stream ZZ-2 identifies it as a Modified Class I ephemeral PHWH stream, which constitutes the stream's existing use. Substrates within the assessed reach consisted almost entirely of silt with lesser amounts of leaf pack/woody debris.

5.2.43 Stream AAA

Stream AAA is an unnamed primary headwaters stream to Buck Creek located just west of State Route 56 in between Wetlands FF and GG. Stream AAA has a watershed area of 0.05 square miles therefore it was evaluated using the HHEI. Stream AAA does not have an assigned Aquatic Life Use designation and has not been monitored by Ohio EPA for aquatic life and chemical parameters. The HHEI score of 34 for Stream AAA identifies it as a potential Modified Class II PHWH stream. Substrates within the assessed reach consisted primarily of clay hardpan and silt with lesser amounts of boulder, gravel, sand and cobble.

6.0 REPORT LIMITATIONS

The conclusions presented herein are based on the level of effort and investigative techniques defined under the Scope of Work. Hull & Associates, Inc. has conducted this investigation in a manner consistent with published guidance, sound ecological practices and best professional judgment. No other warranty or guarantee, expressed or implied, is made. This report does not attempt to evaluate past or present compliance with Federal, State and Local environmental or land use laws and regulations. Furthermore, Hull & Associates, Inc. makes no guarantees regarding the completeness or accuracy of any information obtained in review of public or private files or previous investigations at the Facility not conducted by Hull & Associates, Inc. The results of the surface water delineation and the surface water evaluation are subject to verification by the USACE and Ohio EPA, respectively.

7.0 REFERENCES

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- U.S. Army Corps of Engineers, 1999. Standard Operating Procedures for the Regulatory Program.
- U.S. Army Corps of Engineers. 2008. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-08-27. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
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TABLES



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HULL & ASSOCIATES, INC. DUBLIN, OHIO

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MARCH 2013 EVP010.300.0012 BUCKEYE WIND POWER PROJECT SURFACE WATER DELINEATION TABLE 1

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SUMMARY OF WETLAND DATA

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Photo No.	81,82	83	n/a	84	85	86	87	88	68	00	91	92 [`]	83	94	96	<u> 96</u>	97	86	66	100	101
Isolation status ^{\$}	Isolated	Nonisolated	Nonisolated	Nonisolated	Isolated	Nonisolated	Nonisolated	Isolated	Nonisolated	Nonisolated	Isolated	 Isolated 	Isolated	Isolated	Non-isolated	Nonisolated	Nonisolated	Nonisolated	Nonisolated	Isolated	Nonisolated
Ohio Category [†]	Modified 2	Modified 2	Modified 2	Modified 2	*	1	1/2 Gray Zone; assumed Modified 2	-	1	-	÷	-	←	-	-	-	÷-	5	-	t	1
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Size method	GPS/GIS	SID/SdD	GPS/GIS	GPS/GIS	GPS/GIS	GPS/GIS	GPS/GIS	GPS/GIS	GPS/GIS	SID/SdD	GPS/GIS	SI6/S46	GPS/GIS	GPS/GIS	SID/SdD	GPS/GIS	GPS/GIS	GPS/GIS	GPS/GIS	GPS/GIS	GPS/GIS
Wetland Size (ac)§	0.39	2.90	0.02	0.66	0.74	1.44	0.01	0.19	0.02	0.04	0.20	0.07	~0.20**	0.19	0.39	-0.30-3**	0.19	-0.30-3**	~0.30-3**	0.05	0.38
Wetland Present?	yes	yes	yes	Yes	yes	ves	yes	sev	Yes	sev	yes	yes	yes	YBS	ves	ves	yes	yes	yes	yes	ves
Hydrophytic Plant Community Present?	yes	yes	Sev	sex	yes	Sev	yes	ves	ves	Ves	Ves	Ves	. sev	ves	ves	, yes	yes	yes	sak	sex	say
Hydrology Prøsent?	yes	yes	Ves	ves	Ves	Ves	yes	VBS	Ves	ves	yes	Ves	Ves	ves	yes	yes	yes	yes	yes	ves	Ves
Hydric Soils Present?	yes	yes	Ves	ves	Ves	ves	yes	Ves	ves	sev	ves	ves	ves	VBS	ves	ves	sey	yes	yes	ves	ves
NWI Mapped As	PUBFh	PEMCd	n/a	PUBGh	PEMA	PEMC	ц'а	п/а	n/a	n/a	PEM1C	п/а	PEM1A	PEM1C	n/a	i e/u	PEN1A	PFO1A/PS S1C	PSS1C/PU BGh	n/a	e/u
Cowardin Classification	PEM/PSS	PEM/PSS	PEM	POW	PEM	PEM	PEM	PEM	PEM	PEM	PEM	PEM	PEM	PEM	PEM .	PEM/PSS	PEM	PFO/PSS	PSS/PUB	PEM/PSS	PEM/PSS
Mapped hydric soil	2	yes	Ves	8	Q	2	yes	Ves	Sev	8	Ves	ves	8	Ves	Ves	Sey	Q	səƙ	yes	2	2
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Sample Point	SP1	SP3	SP10	SP26	SP4a	SP5	SP30	SP30	SP33	SP39	SP43	SP44	SP45	SP46	SP57	SP58	SP62	SP63	SP66	WET-KA	WET-KB
Wetland ID	A	8	Ŧ	-		×		W	z	0	F)	>	M	١	ő	ņ	КK	NN	₹	æ

NWI = National Wetlands Inventory ORAM = Ohio Rapid Assessment Method for Wetlands v. 5.0 ^{\$}Subject to verification by US Army Corps of Engineers. ^{\$Subject} to verification by Ohio EPA. n/a = Not applicable. OPS = Global Information System GIS = Global Information System ** = Wetland size estimated, extended out of delineation area

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HULL & ASSOCIATES, INC. DUBLIN, OH

BUCKEYE WIND POWER PROJECT SURFACE WATER DELINEATION TABLE 2

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SUMMARY OF STREAM DATA

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 | 37, 38 | 39,40 | 41, 42
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 | 53, 54 | 55, 56 | 67, 5B | 59, 60 | 61, 62
 | 63, 64 | 65, 66 | 87,68
 | 69, 70 | 71, 72 | 73, 74 | 75, 76 | 77.78
 | 79,80 |
| Intermittent | Ephemenul | Ephemeral | Intermittent | Perennial | Intermittent | Internitient | Ephemeral | Intermitent | Perennial | Perennial | Intermittent
 | Intermittent | Intermittent | Ephemeral | Intermittent | Intermittent | Intermittent | Internittent

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 | Ephemeral | Ephemeral | Ephemeral
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 | Ephemenal |
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Class PHWH
 | Modified Class II PHWH | Class II PHWH | Modified Class I PHWH | Modified Class II PHWH | Modified Class II PHWH | CWH ¹ | CWH ¹

 | CWH | CWH ² | CWH ²
 | EWH

 | EWH ¹

 | Modified Class I PHWH | Modified Class PHWH
 | Modified Class II PHWH | Modified Class II PHMH | Modified Class PHWH

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FIGURES



MARCH 2013 EVP010.300.0012

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Freshwater Forested/Shrub Wetland Freshwater Emergent Wetland Freshwater Pond Limited Access Major Roads Local Roads Wetland Streams Highways Wetlands NWI Wetlands Stream HHEI ROADTYPE QHEI Lake Relocated Interconnect = Buckeye & Buckeye Shared Proposed Phase | Turbine Locations Relocated Interconnect = Buckeye Non-hydric With Hydric Inclusions Ohio Rivers and Streams 1/4 Mile Buffer Facilities Proposed Substation Project Number: EVP010 File Name: Evpora_pa_swsola_Fig19_phl-skEv Civil Townships Staging Areas 10¹ Non-hydric Railroads Hydric ţ Soils Prepared By:

APPENDIX A

Photographs



HULL & ASSOCIATES, INC. DUBLIN, OHIO

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MARCH 2013 EVP010.300.0012



Photo 1. Upstream evaluated reach of Stream B; Grid Map B2 looking upstream.



Photo 2. Downstream evaluated reach of Stream B; Grid Map B2.



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Buckeye Wind Project Surface Water Delineation

MARCH 2013

Site Photographs

Champaign County, Ohio

File Name: EVP010.300.0012

Project Number: EVP010





Photo 6. Stream D-2 looking downstream facing south.



Buckeye Wind Project Surface Water Delineation

MARCH 2013

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Champaign County, Ohio

Project Number: EVP010 File Name: EVP010.300.0012



Photo 7. Stream E, facing upstream looking southeast; Grid Map B2.



Photo 8. Stream E looking downstream near proposed crossing.



Site Photographs

Champaign County, Ohio



Project Number: EVP010 File Name: EVP010.300.0012

Date:

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Photo 12. Existing crossing on Stream J; Grid Map C2.



Buckeye Wind Project Surface Water Delineation

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Site Photographs

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Project Number: EVP010 File Name: EVP010.300.0012







Photo 14. Stream J-2 facing west looking upstream near the point of crossing of a proposed buried interconnect route.



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Photo 15. Stream J-2 facing west looking upstream.



Photo 16. Sample reach of Stream K, facing upstream looking east; Grid Map C2.



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Date.

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Photo 17. Sample reach of Stream K, facing downstream looking west; Grid Map C2.



Photo 18. Sample reach of Stream L, facing upstream looking west; Grid Map C5.

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MARCH 2013

Project Number: EVP010

File Name: EVP010.300.0012

Date:

Site Photographs



Photo 19. Evaluated reach of Stream O (East Fork Buck Creek) facing upstream. Grid Map D4.



Photo 20. Evaluated reach of Stream O (East Fork Buck Creek) facing downstream. Grid Map D4.



ociates, inc. Phone (611) 793-8777 Fax: (614) 793-9070 www.hulline.com

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Photo 22. Stream O-2 (East Fork Buck Creek) looking downstream.





Photo 23. Stream P; Grid Map C3.



Photo 24. View of tiled stream north of Turbine 70, facing northwest. This is the same drainage area as Stream Q.



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Site Photographs

Champaign County, Ohio

Project Number: EVP010





Photo 26. View of Stream R near Turbine 37; facing downstream.



Site Photographs

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Project Number: EVP010 File Name: EVP010.300.0012

Date:

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Phone (614) 73.-8777 Fax: (614) 793-9070 www.hullinc.com nc.





Photo 29. View of Stream V between Turbines 42 and 43 facing downstream looking east.



Photo 30. View of existing crossing of Stream W near Turbine 43.





Photo 31. View of Stream W near Turbine 43 facing downstream looking south.



Photo 32. View of Stream W near Turbine 43 facing upstream looking north.



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Date:

Project Number: EVP010 File Name: EVP010.300.0012



Photo 33. Stream Y (Buck Creek) looking south.



Photo 34. View of substrate in Stream Y (Buck Creek).



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Photo 37. Stream Y-3 (Buck Creek) looking upstream facing East.



Photo 38. Stream Y-3 looking downstream facing West.



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Photo 40. Stream Y-4 (Buck Creek) looking downstream facing West.



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Date:



Photo 41. View of Stream AA looking upstream.



Photo 42. View of Stream AA looking upstream.



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Photo 48. View of Stream EE near Turbine 69 facing south.



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Project Number: EVP010 File Name: EVP010.300.0012



Photo 50. Stream GG looking downstream facing North.



Buckeye Wind Project Surface Water Delineation

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MARCH 2013

Project Number: EVP010 File Name: EVP010.300.0012



Photo 51. Stream HH going under S. Mutual Union Road looking upstream facing East.



Photo 52. Stream HH looking downstream facing West.



Site Photographs

Champaign County, Ohio

FEBRUARY 2013

Project Number: EVP010 File Name: EVP010.300.0012



Photo 54. Stream II looking downstream facing Southwest.



Site Photographs

Champaign County, Ohio

FEBRUARY 2013

Project Number: EVP010 File Name: EVP010.300.0012

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Champaign County, Ohio

File Name: EVP010.300.0012



Site Photographs

ates, inc.

* crw (\$14) (\$5-8777 Fax: (614) 793-9070 www.hullinc.com

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Project Number: EVP010 File Name: EVP010.300.0012



Photo 60. Stream MM looking upstream facing East.



Buckeye Wind Project Surface Water Delineation

Site Photographs

Champaign County, Ohio

FEBRUARY 2013

Project Number: EVP010 File Name: EVP010.300.0012




Photo 63. Stream OO looking upstream facing Northeast.



Photo 64.Stream OO looking downstream facing Southwest.



Buckeye Wind Project Surface Water Delineation

Site Photographs

Champaign County, Ohio

FEBRUARY 2013

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Project Number: EVP010 File Name: EVP010.300.0012

Date



Photo 66. Stream PP looking upstream.



Buckeye Wind Project Surface Water Delineation

Site Photographs

Champaign County, Ohio

FEBRUARY 2013

Project Number: EVP010 File Name: EVP010.300.0012

Date:



Photo 68. Stream QQ looking upstream.



Buckeye Wind Project Surface Water Delineation

Site Photographs

Champaign County, Ohio

FEBRUARY 2013

Project Number: EVP010 File Name: EVP010.300.0012

Date:



Photo 70. Stream WW looking downstream facing East.



Buckeye Wind Project Surface Water Delineation

Site Photographs

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Project Number: EVP010 File Name: EVP010.300.0012.xls

Date:



Photo 71. Stream XX looking upstream facing West.



Photo 72. Stream XX looking downstream facing East.



Buckeye Wind Project Surface Water Delineation

Site Photographs

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Project Number: EVP010 File Name: EVP010.300.0012.xls

Date:



& associates, inc. 6397 Therabi Patway Procer (614) 793-8777 Suite 200 Fax: (614) 793-9070 Dublin, Ohio 43017 www.hullinc.com 62011, Hull & Associates, Inc. Buckeye Wind Project Surface Water Delineation

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Champaign County, Ohio

File Name: EVP010.300.0012.xls



Photo 76. Stream ZZ looking upstream facing Southeast.



Buckeye Wind Project Surface Water Delineation

Site Photographs

MARCH 2013

Project Number: EVP010 File Name: EVP010.300.0012.xls

Date:



Photo 77. Stream ZZ-2 looking downstream facing Northwest.



Photo 78. Stream ZZ-2 looking upstream facing Southeast.



Buckeye Wind Project Surface Water Delineation

Site Photographs

MARCH 2013

Project Number: EVP010

Date:

Champaign County, Ohio

File Name: EVP010.300.0012.xls



Photo 79. Stream AAA substrate.



Photo 80. Stream AAA looking downstream facing West.



Buckeye Wind Project Surface Water Delineation

Site Photographs

MARCH 2013

Project Number: EVP010 File Name: EVP010.300.0012.xls

Dale:







Photo 85. Wetland J just south of State Route 36, facing northwest.



Photo 86. Wetland K just south of State Route 36, facing southwest.



Buckeye Wind Project Surface Water Delineation

Site Photographs

MARCH 2013

Project Number: EVP010 File Name: EVP010.300.0012.xls

Date:





6397 Emonaki Patkaty Phone (014) 703 8777 Suite 200 Fax: (614) 793-9070 Dublin, Ohio 43017 www.hutlinc.com © 2011, Huil & Associates, Inc. Surface Water Delineation

Site Photographs

MARCH 2013

Project Number: EVP010 File Name: EVP010.300.0012.xls















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Site Photographs

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MARCH 2013

Project Number: EVP010 File Name: EVP010.300.0012.xts

Date:





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MARCH 2013

Site Photographs

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Project Number: EVP010 File Name: EVP010.300.0012.xls

APPENDIX B

Wetland Delineation Data Sheets

HULL & ASSOCIATES, INC. DUBLIN, OHIO

.

MARCH 2013 EVP010.300.0012

Project/Site: Ever Power Project Applicant/Owner: Ever Power Inc. Investigators: K. Carr	Proje	ct#EVP001	Date: 11/21/08 County: Champaign State: Ohio	
Do Normal circumstances exist on the site?	Yes	Sample Poi	nt# SP1	
Is the site significantly disturbed (Atypical Situation)?	No	Site Locatio	n: Wetland A	
Is the area a potential Problem Area:	No			

VEGETATION

(USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

See attached sheet for listing of plant species and identification of dominant vegetation

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 % FAC Neutral Test: 2 > 0 = Pass

HYDROLOGY	
Recorded Data(Describe in Remarks):	Wetland Hydrology Indicators
Stream, Lake or Tide Gauge	Primary Indicators
Aerial Photographs	linundated
Other	Saturated in Upper 12 Inches
	🛛 Water Marks
🛛 No Recorded Data	Drift Lines
	Sediment Deposits
Field Observations	Drainage Patterns in Wetlands
Total Depth of Pit or Auger: 12 in.	Secondary Indicators
	Oxidized Root Channels in Upper 12 Inches
Depth of Surface Water: - in.	Water-Stained Leaves
	Local Soil Survey Data
Depth to Free Water in Pit: - in.	FAC-Neutral Test
	Other(Explain in Remarks)
Depth to Saturated Soil: - in.	

SOILS

Ş

Map Unit N Joam, 2-6%	lame (Serie slopes	s and Phase):Celin	a silt			
Map Symbol:CnB Drainage Class: mwd Map I				Unit Recognized as Hyd	iric?: No	
Taxonomy	(Subgroup)	: Aquic Hapludalfs	Field	Observations Confirm N	lapped Type? No	
			Soil / Pr	ofile Description		
Depth		Matrix Color	Mottle Color	Mottle		
bgs (inches)	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Contrast	Texture, Concretions, Structure	
0-12	A/B	10YR 3/2	10YR 3/6	few/distinct	silty clay loam	
	L					
					<u> </u>	
Histosol						
Histic Epipedon				High Organic Conter	t in Surface Layer in Sandy Soils	
Sulfidic Odor				Organic Streaking in Sandy Soils		
Aquic Moisture Regime				Listed on Local Hydric Soils List		
Reducing Conditions				Listed on National Hydric Soils List		
Gleyed or Low Chroma Colors				Other		

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	Is the Sample Point within a Wetland? Yes	
Wetland Hydrology Present?	Yes		
Hydric Soils Present?	Yes		

Remarks:There was evidence of hydrophytic vegetation, wetland hydrology, and hydric soils at this sample location. This sample point is in a wetland. Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP1 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Bidens frondosa	FACW	Herb	60	100%	Yes
		Herb			
		Негр			
		Herb			
		Herb			
		Herb			
		TDM≑	60		
		Shrub/Sap		-	
		Shrub/Sap			
······································	1	TDM=	0		
Salix nigra	FACW+	Tree	40	100%	Yes
		Tree			
		Тгее			
		Tree			
		Tree			
		TDM=	40		
		Vine			
		TDM=	0		



.



Project/Site: Ever Power Project Applicant/Owner: Ever Power Inc. Investigators: K. Carr	Proje	ct#EVP001	Date: 11/21/08 County: Champaign State: Ohio
Do Normal circumstances exist on the site?	Yes	Sample Poi	int # SP3
Is the site significantly disturbed (Atypical Situation)?	No	Site Locatio	on: Wetland B
is the area a potential Problem Area:	No		

VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

See attached sheet for listing of plant species and identification of dominant vegetation

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/3 = 67 % FAC Neutral Test: 3 > 0 = Pass

HYDROLOGY	
Recorded Data(Describe in Remarks):	Wetland Hydrology Indicators
Stream, Lake or Tide Gauge	Primary Indicators
Aerial Photographs	Inundated
Other	Saturated in Upper 12 Inches
	Water Marks
No Recorded Data	Drift Lines
	Sediment Deposits
Field Observations	Drainage Patterns in Wetlands
Total Depth of Pit or Auger: 12 in.	Secondary Indicators
	Oxidized Root Channels in Upper 12 Inches
Depth of Surface Water: - in.	Water-Stained Leaves
	Local Soil Survey Data
Depth to Free Water in Pit: - in.	FAC-Neutral Test
•	Other(Explain in Remarks)
Depth to Saturated Soil: - in.	

SOILS

Map Unit N	Map Unit Name (Series and Phase):Brookston silty					
ciay loam (clay loam 0-2% slopes					
Map Symb	ol:BsA	Drainage Class	:vpd Map	Unit Recognized as Hyd	Iric?: Yes	
Taxonomy	(Subgroup)	: Typic Argiaquolis	Field	Observations Confirm M	Apped Type? Yes	
			Soil / Pr	ofile Description		
Depth		Matrix Color	Mottle Color	Mottle		
bgs	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Contrast	Texture, Concretions, Structure	
(inches)						
0-12	A/B	10YR 3/2	10YR 3/4	few/distinct	silty clay loam	
Histosol						
Histic Epipedon				High Organic Conter	t in Surface Layer in Sandy Soils	
Sulfidic Odor				Organic Streaking in Sandy Soils		
Aquic Moisture Regime				Listed on Local Hydr	ic Soils List	
Reducing Conditions				Listed on National Hydric Soils List		
]Gleyed or I	Low Chroma Colors		Other		

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	Is the Sample Point within a Wetland?	Yes	
Wetland Hydrology Present?	Yes			
Hydric Soils Present?	Yes			

Remarks:There was evidence of hydrophytic vegetation and hydric soils at this sample location. Wetland hydrology was assumed due to vegetation and landscape position. However, soils were frozen at the time of evaluation; additional hydrology indicators may be present. This sample location is in a wetland.



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT # Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	OBL	Herb	55	71%	Yes
Bideris frondosa	FACW	Herb	10	13%	
Juncus effusus	FACW+	Herb	5	6%	
Phalaris arundinacea	FACW+	Herb	5	6%	
Solidago sp.	unknown	Herb	2	3%	
		Herb			
		TDM=	77		
Salix exigua	OBL	Shrub/Sap	10	50%	Yes
Cornus racemosa	FAC-	Shrub/Sap	10	50%	Yes
		Shrub/Sap			
		Shrub/Sap	_		
		Shrub/Sap			
		Shrub/Sap			
		TDM=	20		
		Tree			
		Trea			
		Tree			
		TDM=	0		
		Vine			
		TDM=	0		

Project/Site: Buckeye Wind Power Project Applicant/Owner: Everpower Inc. Investigators: H. Crowell; K. Carr; S.M Harrelson	Proje	ect # EVP001 Date: 5/22/2008 County: Champaign State: Ohio	
Do Normal circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area:	Yes No No	Sample Point # SP10 Site Location: Wetland H, Sheet 18	

VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

See attached sheet for listing of plant species and identification of dominant vegetation

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 % FAC Neutral Test: 2 > 0 = Pass

HYDROLOGY	
Recorded Data(Describe in Remarks):	Wetland Hydrology Indicators
Stream, Lake or Tide Gauge	Primary Indicators
Aerial Photographs	Inundated
Other	Saturated in Upper 12 Inches
	Water Marks
No Recorded Data	Drift Lines
_	Sediment Deposits
Field Observations	Drainage Patterns in Wetlands
Total Depth of Pit or Auger: 12 in.	Secondary indicators
	Oxidized Root Channels in Upper 12 Inches
Depth of Surface Water: - in.	Water-Stained Leaves
	Local Soil Survey Data
Depth to Free Water in Pit: - in.	☑FAC-Neutral Test
	Other(Explain in Remarks)
Depth to Saturated Soil: 0 in.	

SOILS

Map Unit N	Name (Serie	s and Phase):Brool	kston silty			
Map Symb	ol:BsA	Drainage Class	vpd Map	Unit Recognized as Hydric	c?: Yes	
Taxonomy	(Subgroup)	: Typic Argiaquolls	Field	Observations Confirm Ma	pped Type? Yes	
			Soil / Pr	ofile Description		
Depth		Matrix Color	Mottle Color	Mottle		
bgs	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Contrast	Texture, Concretions, Structure	
(inches)						
0-10	A/B	10YR_3/1	None			
10-12	В	10YR 3/1	10YR 3/4	common		
	Histosol					
	Histic Epip	edon		High Organic Content in Surface Laver in Sandy Soils		
				Organic Streaking in Sandy Soils		
Aquic Moisture Regime				XListed on Local Hydric Soils List		
				Listed on National Hydric Soils List		
	Gleyed or I	Low Chroma Colors	3	Other		

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	Is the Sample Point within a Wetland?	Yes
Wetland Hydrology Present?	Yes	-	
Hydric Soils Present?	Yes		

Remarks:Hydrophytic vegetation, wetland hydrology, and hydric soils were observed at this sample location. This sample point is in a wetland.



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP10 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	OBL	Herb	15	21%	Yes
Carex vulpinoidea	OBL	Herb	25	34%	Yes
Aster/Solidago sp.	Assumed FACW	Herb	10	14%	
Vitis riparia	FACW	Herb	5	7%	
Festuca rubra	FACU	Herb	10	14%	
Cirsium arvense	FACU	Herb	8	11%	
		Herb			
		TDM=	73		
		Shrub/Sap			
		Shrub/Sap			
· · · · · · · · · · · · · · · · · · ·		Shrub/Sap			
		Shrub/Sap			
<u> </u>	·	Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
· • • • • •		Tree			
	··	Tree			
	· · · · · · · · · · · · · · · · · · ·	Tree			
		Tree			
		Tree		_ · ·	
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine		•	
		Vine			
			0		



Project/Site: Buckeye Wind Power Project Applicant/Owner: Everpower Inc. Investigators: H. Crowell: S.M Harrelson		ect#EVP001	Date: 5/23/2008 County: Logan State: Obio	- ·
Do Normal circumstances exist on the site? Y Is the site significantly disturbed (Atypical Situation)? No		Sample Poi Site Locatio	nt # SP26 n: Wetland I, Sheet 18	<u> </u>
is the area a potential Problem Area:	No			

VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

See attached sheet for listing of plant species and identification of dominant vegetation

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 1/1 = 100 % FAC Neutral Test: 1 > 0 = Pass

HYDROLOGY		
Recorded Data(Describe in Remarks):	Wetland Hydrology Indicators	
Stream, Lake or Tide Gauge	Primary Indicators	
Aerial Photographs	Inundated	
C Other	Saturated in Upper 12 Inches	
	Water Marks	
X No Recorded Data	Drift Lines	ļ
	Sediment Deposits	
Field Observations	Drainage Patterns in Wetlands	
Total Depth of Pit or Auger: n/a in.	Secondary Indicators	
	Oxidized Root Channels in Upper 12 Inches	
Depth of Surface Water: 10 in.	Water-Stained Leaves	
,	Local Soil Survey Data	
Depth to Free Water in Pit: - in.	FAC-Neutral Test	
	Other(Explain in Remarks)	
Depth to Saturated Soil: - in.		

SOILS

Map Unit N	Name (Serie	s and Phase):Celin	a silt			
10am, 2 to	o percent se	opes			via Os NI-	
Map Symb	ol:CnB	Drainage Class	: mwd Map	Unit Recognized as Hyd	ric?: No	
Taxonomy	(Subgroup)	: Aquic Hapludalfs	Field	Observations Confirm M	apped Type? Not Determined	
			Soil / Pr	ofile Description		
Depth	1	Matrix Color	Mottle Color	Mottie		
bas	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Contrast	Texture, Concretions, Structure	
(inches)			(**************************************		······ , ······, ······	
					······································	
	Histosol			Concretions		
1 г	Histic Epip	edon		High Organic Conten	t in Surface Laver in Sandy Soils	
	Sulfidic Od	or		Organic Streaking in	Sandy Soils	
				Listed on Local Hydric Soils List		
				Elisted on Loodin nydrio Solis List		
∣ ⊱						
L	JGleyed or I	Low Chroma Colors				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	Is the Sample Point within a Wetland?	Yes
Wetland Hydrology Present?	Yes		
Hydric Soils Present?	Yes		

Remarks:This sample point was dominated by true aquatic plants, therefore a complete soil analysis was not performed. Hydrophytic vegetation and wetland hydrology were observed at this sample location. This sample point is in a wetland.

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP26 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Lemna minor	OBL	Herb	45	75%	Yes
Elodea canadensis	OBL	Herb	5	8%	
Potamogeton nodosus	OBL	Herb	10	17%	
		Herb			
		TDM=	60		
		Shrub/Sap			
		Shrub/Sap			
	<u> </u>	Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
	· · · · · · · · · · · · · · · · · · ·	Shrub/Sap			
		Shrub/Sap		1	<u> </u>
		TDM=	0		·
		Tree			
	u - <mark></mark>	Tree			
		Tree			
		Tree			
	<u></u>	Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			······
		TDM=	0		

4

Project/Site: Buckeye Wind Power Project Applicant/Owner: Everpower Inc. Investigators: K. Carr; S.M Harrelson	Projec	at # EVP001	Date: 5/21/2008 County: Champaign State: Ohio
Do Normal circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area:	Yes No No	Sample Poil Site Locatio	nt # SP4a n: Wetland J

VEGETATION

(USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

See attached sheet for listing of plant species and identification of dominant vegetation

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 1/1 = 100 %FAC Neutral Test: 1 > 0 = Pass

HYDROLOGY		
Recorded Data(Describe in Remarks):	Wetland Hydrology Indicators	٦
Stream, Lake or Tide Gauge	Primary Indicators	
Aerial Photographs	Inundated	
Other	Saturated in Upper 12 Inches	
—	Water Marks	
X No Recorded Data	Drift Lines	
—	Sediment Deposits	
Field Observations	Drainage Patterns in Wetlands	
Total Depth of Pit or Auger: 12 in.	Secondary Indicators	
, 0	Oxidized Root Channels in Upper 12 Inches	1
Depth of Surface Water: 1 in.	Water-Stained Leaves	
•	Local Soil Survey Data	l
Depth to Free Water in Pit: - in.	A FAC-Neutral Test	
•	Other(Explain in Remarks)	
Depth to Saturated Soil: 0 in.	, _ , .	l

SOILS

Map Unit N	lame (Serie	s and Phase):Algie	rs silt		
Man Symb	ol:An	Drainage Class	snd Man	Unit Recognized as Hyp	iric?* No
Taxonomy	(Subgroup)	: Aquic Udifluvents	Field	Observations Confirm M	Mapped Type? No
			Soil / Pr	ofile Description	
Depth	-	Matrix Color	Mottle Color	Mottle	
bgs (inches)	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Contrast	Texture, Concretions, Structure
0-7	A or Ap	10YR 3/2	None		sticky clay with high organics
8-12	A/B	10YR 3/2	10YR 4/4	very distinct	sity clay loam
			1	<u> </u>	
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Aquic Moisture Regime ☐Reducing Conditions ☑Gleyed or Low Chroma Colors				Concretions High Organic Conter Organic Streaking in Listed on Local Hydr Listed on National Hy Other	t in Surface Layer in Sandy Soils Sandy Soils ic Soils List ydric Soils List

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	Is the Sample Point within a Wetland? Yes
Wetland Hydrology Present?	Yes	
Hydric Soils Present?	Yes	

Remarks:Hydrophytic vegetation, wetland hydrology, and hydric solls were observed at this sample location. This sample point is in a wetland.



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Identification of Dominant Plant Species using the 59/20 Rule, SAMPLE POINT #SP4a Attachment to Routine Wetland Determination Data Form Huli & Associates, Inc.

SPECIES		STRATUM	PLANT COVER	OF TDM	DOMINANT	
Phalaris arundinacea	FACW+	Herb	90	100%	Yes	
	· · ·	Herb				
		Herb				
		Herb				
		Herb				
		Herb				
		Herb				
		Herb				
		Herb				
		Herb				
		TDM=	90			
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sep				
		Shrub/Sap				
		Shrub/Sap			-	
		TDM=	0			
		Tree				
		Tree				
		Tree				
		Tree				
······		Tree				
	·	Tree				
	-	Tree				
		Tree	······································			
		Tree		j		
		Tree			·	
		TDM≈	0		••••••	
		Vine				
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Project/Site: Buckeye Wind Power Project Applicant/Owner: Everpower Inc. Investigators: K. Carr; S.M Harrelson		t#EVP001	Date: 5/21/2008 County: Champaign State: Ohio	
Do Normal circumstances exist on the site? Is the site significantly disturbed (Atypical Situat Is the area a potential Problem Area:	Yes tion)? No No	Sample Poin Site Location	t# SP5 : Wetland K, Sheet 19	

VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

See attached sheet for listing of plant species and identification of dominant vegetation

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 % FAC Neutral Test: 2 > 0 = Pass

HYDROLOGY	
Recorded Data(Describe in Remarks):	Wetland Hydrology Indicators
Stream, Lake or Tide Gauge	Primary Indicators
Aerial Photographs	Inundated
Other	Saturated in Upper 12 Inches
	Water Marks
🖾 No Recorded Data	Drift Lines
	Sediment Deposits
Field Observations	Drainage Patterns in Wetlands
Total Depth of Pit or Auger: 12 in.	Secondary Indicators
	Oxidized Root Channels in Upper 12 Inches
Depth of Surface Water: 1 in.	Water-Stained Leaves
	Local Soil Survey Data
Depth to Free Water in Pit: - in.	FAC-Neutral Test
•	Other(Explain in Remarks)
Depth to Saturated Soil: 0 in.	,

SOILS

Map Unit N	lame (Serie	s and Phase):Miam	i silt					
loam, 6-12	% slopes, m	noderately eroded						
Map Symb	ol:MIC2	Drainage Class	:wd Map	Unit Recognized as Hyd	dric?: No			
Taxonomy	(Subgroup)	: Typic Hapludalfs	Field	Observations Confirm M	happed Type? No			
	Soil / Profile Description							
Depth Matrix Color Mottle Color Mottle								
bgs	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Contrast	Texture, Concretions, Structure			
(inches)								
0-7	A or Ap	10YR 3/2	None		clayey silt with high organics			
8-12	A/B	10YR 3/2	10YR 4/4	very distinct silty clay loam				
ļ		i						
▌	Histosol							
▎ └	Histic Epip	edon		High Organic Content in Surface Layer in Sandy Soils				
Sulfidic Odor				Organic Streaking in Sandy Soils				
Aquic Moisture Regime				Listed on Local Hydric Soils List				
	Reducing Conditions Listed on National Hydric Soils List							
	Gieyed or l	Low Chroma Colors	<u> </u>	Other				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	Is the Sample Point within a Wetland?	Yes	
Wetland Hydrology Present?	Yes			
Hydric Soils Present?	Yes			

Remarks:Hydrophytic vegetation, wetland hydrology, and hydric soils were observed at this sample location. This sample point is in a wetland.

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP5 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW+	Herb	30	41%	Yes
Aster/Solidago sp.	Assumed FACW	Herb	40	54%	Yeş
Populus deitoides	FAC	Herb	2	3%	
Rumex orbiculatus	OBL	Herb	2	3%	
		Herb			
		TDM=	74		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
· · · · · · · · · · · · · · · · · · ·	·	Shrub/Sap			
		Shrub/Sap			·
		Shrub/Sap			······
· · · · · · · · ·		Shrub/Sap			
		Shrub/San			·
		Shrub/Sap			
····		Shrub/Sap			
	· · · · ·	TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree	· · · · · ·		, _
		Тгее			
		Tree			· · · · · · · · · · · · · · · · · · ·
		TDM=	0		
		Vino			
	· · · · · · · · · · · · · · · · · · ·	Vine			
		Vine			
		Vine		· · · · · · · · · · · · · · · · · · ·	
			0		

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Project/Site: Buckeye Wind Power	City/County: Champ	aign Sampling Date: 8/12/2009			
Applicant/Owner: EverPower	State: Ohio	Sampling Point: SP30			
Investigator(s): K. Carr; S.M. Harrelson	Section, Township, I	Range: : Union Twp			
Landform (hillslope, terrace, etc.): flat	Local relief (co	ncave, convex, none): попе			
Slope (%):0 Lat: 40.08757034020 Long:	-83.58088603750	Datum: NAD83			
Soil Map Unit Name: Algiers silt loam	NWI classification: none				
Are climatic/hydrologic conditions on the site typical for this time of	year? Yes (If no, exp	lain in Remarks.)			
Are Vegetation 🔲, Soil 🔲, or Hydrology 🔲 significantly disturbe	ed? Are "Normal Circun	nstances" present? Yes			
Are Vegetation 🔲, Soil 🔲, or Hydrology 🗋 naturally problematic? (If needed, explain any answers in Remarks).No					
		· · · · · · · · · · · · · · · · · · ·			
SUMMARY FINDINGS – Attach site map showing sampl	ling point locations,	transects, important features, etc.			

Hydrophytic Vegetation Present?	Yes	is the Sampled Area	
Hydric Soil Present?	Yes	within a Wetland?	Yes
Wetland Hydrology Present?	Yes		

Remarks: This is Wetland L. There was evidence of hydrophytic vegetation, hydric soil, and wetland hydrology at this sample location. This sample point is in a wetland. Figure 10.

VEGETATION

(USFWS Region No. 1 - Northeast Sub-Region)

See attached sheet for listing of plant species and identification of dominant vegetation

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 3/3 = 100 %

FAC Neutral Test: 3 > 0 = Pass

Prevalence index =

Remarks: This plant community is hydrophytic.

SOIL								
Profile Des	cription: (Describe to	o the depth	needed to document	the indi	cator or co	nfirm the	absence of indi	cators.)
Depth	Matrix Redox Features							
(Inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-6	10YR 3/1		None		<u> </u>	<u> </u>	clayey silt	saturated
6-12	10YR 3/1	75	10YR 3/6	25	С	M	silty clay	
	····-							
					1			
Type: C=C Hydric Soi Histoso Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick E Sandy 5 cm M	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present.							
Restrictive Layer (if observed): Type: Depth: (inches):				I	Hydric Soil Present? Yes Soil pit dua? Yes			
Remarks: There was evidence of hydric soils.				(if yes select one): Soil Spade				

		PAGE 2					
		Sampling Date: 8/12/2009					
		Sampling Foint: SP30					
HYDROLOGY							
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 Pattems (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 (B2)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soiis (C6)	AC-Neutral Test (D5)					
Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)					
Inundation Visible on Aerial Imagery (B7)	Gauge or Well Data (D9)						
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)						
Field Observations:	<u></u>						
Surface Water Present? No Depth (In	ches):						
Water Table Present? No Depth (In	ches):						
Saturation Present? Yes Depth (In (includes capillary fringe)	ches): 0 Wetland Hydrology Pr	resent? Yes					
Recorded Data (Describe in Remarks):							
Stream, Lake, or Tide Gauge	Stream, Lake, or Tide Gauge Aerial Photographs Other						
⊠ No Recorded Data							
Remarks: There was evidence of primary or sec	condary wetland hydrology.	· · · · · · · · · · · · · · · · · · ·					

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP30 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT	
Typha latifolia	OBL	Herb	30	25%	Yes	
Ipomoea pandurata	FACU	Herb	20	17%		
Aster lateriflorus	FACW-	Herb	30	25%	Yes	
Vernonia gigantea	FAC	Herb	8	7%		
Agrimonia parviflora	FAC	Herb	5	4%		
Phalaris arundinacea	FACW+	Herb	25	21%	Yes	
		Herb				
		Herb				
		Herb				
		Herb				
		TDM=	118			
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		Shrub/Sap				
		TDM=	0			
		Tree			i	
		Tree				
		Tree				
		Тгөө				
		Tree				
		Tree				
		Tree				
		Tree				
		Tree				
		Tree				
		TDM=	0			
		Vine				
	· · · · · · · · · · · · · · · · · · ·	Vine				
		Vine				
		Vine				
		TDM=	0			

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Project/Si	te: Ever Power Project -	Wetland N	Λ.	City/Coun	nty: Chan	npaign	Sampl	ing Date: 6/29/2011
Applicant	Owner: Ever Power Inc			State: OH	I		Sampi	ing Point: SP32
Investigat	tor(s): B.M. Falkinburg /	H.F. Crow	eli	Section, T	Township	o, Range	::	
Landform	(hillslope, terrace, etc.):			Loc	al relief (concave,	convex, none):	Concave
Slope (%):	Lat:		Long:	·	Datu	m:		
Soil Map L	Jnit Name: BsA, Brooksi	ton silty cla	iy loam, 0-2% slopes] N1	VI classification	1:
Are climati	ic/hydrologic conditions o	on the site	typical for this time of	year? Yes	(if no, e	xplain in	Remarks.)	
Are Veget	ation 🔲, Soil 🔲, or Hyd	drology [significantly disturbe	ed? Are "No	rmal Circ	umstanc	es" present?	Yes
Are Veget	ation 🔲, Soil 🛄, or Hyd	drology 🗌	naturally problematic	? (If needed	l, explain	any ansv	vers in Remarks	s).No
	RY FINDINGS - Attac	h site ma	ap showing sampli	ing point k	ocation	s, trans	ects, importa	int features, etc.
Hydrophyt	ic Vegetation Present?	Yes		is the	Sampleo	d Area		
Hydric Soi	I Present?	Yes		within	n a Wetla	nd?	Yes	
Wetland H	lydrology Present?	Yes						
Pamerini	The required uniford of	aria heur	hear mot	<u>]</u>				
rtemarks:	me required wettand Ch	iena nave	neell Mer					
L								
VEGETA	TION	<u>(U</u>	SFWS Region No.	1 - Northe	ast Sub	Regio	n)	
L	See atta	ched shee	t for listing of plant	species and		ation of	dominant veg	etation
Percent of	Dominant Species that a	are OBL, F	ACW or FAC: (exclud	ing FAC-) =	1/1 = 100	1%		
FAC Neut	ral Test: 1 > 0 = Pass							
Prevalenci	e index =							
Remarks:	The hydrophytic vegetati	on criterio	n has been met.					
SOIL	•		LRR: M					<u> </u>
SOIL Profile De	scription: (Describe to	the depth	LRR: M	nt the indica	itor or co	onfirm th	e absence of i	ndicators.)
SOIL Profile De Depth	scription: (Describe to Matrix	the depth	LRR: M	nt the indica	tor or co	onfirm th	e absence of i	ndicators.)
SOIL Profile De Depth (Inches) 0-1	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3	the depth % 100	LRR: M	nt the indica lox Features %	itor or co Type ⁱ	nfirm th	e absence of in Texture silt loam	ndicators.)
SOIL Profile Dee Depth (Inches) 0-1 1-13	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2	the depth % 100 80	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4	nt the indica lox Features % 	tor or co Type ⁱ	nfirm th	e absence of in Texture silt loam silt loam	ndicators.)
SOIL Profile Dep Depth (Inches) 0-1 1-13	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2	the depth % 100 80	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4	nt the indica lox Features % 20	tor or co	Loc ²	e absence of it Texture silt loam silt loam	Remarks
SOIL Profile Dep Depth (inches) 0-1 1-13	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2	the depth % 100 80	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4	nt the indica lox Features % 20	ttor or co	Loc ²	e absence of it Texture silt loam silt loam	Remarks
SOIL Profile Dep Depth (Inches) 0-1 1-13	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2	the depth % 100 80	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4	nt the indica lox Features % 20	tor or co	Loc ²	e absence of it Texture silt loam silt loam	Remarks
SOIL Profile De: Depth (Inches) 0-1 1-13	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2	the depth % 100 80	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4	nt the indica lox Features % 20	Type ¹	nfirm th	e absence of in Texture silt loarn silt loarn	Remarks
SOIL Profile De: Depth (inches) 0-1 1-13	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2	the depth % 100 80	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4	nt the indica lox Features % 20	ttor or co	Loc ²	e absence of it Texture silt loarn silt loarn	Remarks
SOIL Profile Depth (Inches) 0-1 1-13	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 Concentration, D=Deplet	the depth % 100 80 	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4 educed Matrix, CS=C	nt the indica lox Features % 20 20 overed or Co	Type'	Loc ²	e absence of in Texture silt loarn silt loarn 	ndlcators.) Remarks
SOIL Profile Depth (Inches) 0-1 1-13 Type: C=C Hydric SOI	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 	LRR: M	nt the indica lox Features % 20 20 overed or Co	Type ¹	Loc ²	e absence of it Texture silt loam silt loam silt loam	ndicators.) Remarks Remarks on: PL=Pore Lining, M=Matrix Problematic Hydric Soils ³ :
SOIL Profile Depth (Inches) 0-1 1-13 'Type: C=C Hydric Sol Histosu	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 	LRR: M	overed or Co	Type ¹	Loc ²	e absence of in Texture silt loam silt loam silt loam 	ndicators.) Remarks Remarks on: PL=Pore Lining, M=Matrix Problematic Hydric Soils ³ : irie Redox (A16) appene Masses (E12)
SOIL Profile De Depth (inches) 0-1 1-13 ' 'Type: C=C Hydric Soi Histosi Histosi Black I	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 	the depth % 100 80	LRR: M	overed or Co	Type ¹	nfirm th	e absence of it Texture silt loam silt loam silt loam 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ndicators.) Remarks Remarks
SOIL Profile De: Depth (Inches) 0-1 1-13 ' ' Type: C=O Hydric Soi Histos: Histos: Histos: Histos: Histos: Histos:	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 concentration, D=Deplet I Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4)	the depth % 100 80 	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4	nt the indica lox Features % 20 20 overed or Co Matrix (S4) (S5) x (S6) Mineral (F1)	Type'	nfirm th	e absence of it Texture silt loarn silt loarn silt loarn silt loarn z'Locati Indicators for Coast Pra Iron-Mang Other (Exp	ndicators.) Remarks Remarks on: PL=Pore Lining, M=Matrix Problematic Hydric Soils ³ : irie Redox (A16) anese Masses (F12) blain in Remarks)
SOIL Profile Dee Depth (Inches) 0-1 1-13 ' ' Type: C=C Hydric Soi Histosi Histosi Histosi Histosi Stratifit	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Deplet Indicators: of (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5)	the depth % 100 80 on, RM=R	LRR: M needed to documer Rec Color (moist) 7.5YR 3 / 4	the indica lox Features % 20 20 overed or Co i Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F3)	Type'	nfirm th	e absence of it Texture silt loam silt loam silt loam 2Locati Indicators for Coast Pra Iron-Mang Other (Exp	ndlcators.) Remarks Remarks on: Pl.=Pore Lining, M=Matrix Problematic Hydric Soils ³ : irie Redox (A16) anese Masses (F12) plain in Remarks)
SOIL Profile Depth Depth (Inches) 0-1 1-13 	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4 7.5YR 3/4 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri Depleted Matri	the indica lox Features % 20 20 overed or Co i Matrix (S4) (S5) xx (S6) Mineral (F1) d Matrix (F3) ix (F3)	Type'	nofirm th	e absence of in Texture silt loam silt loam silt loam 2Locati Indicators for Coast Pra Iron-Mang Other (Exp	ndicators.) Remarks Remarks non: PL=Pore Lining, M=Matrix Problematic Hydric Soils ³ : irie Redox (A16) anese Masses (F12) plain in Remarks)
SOIL Profile De: Depth (Inches) 0-1 1-13 ' ' Type: C=C Hydric Sol Histosi Histosi Histosi Histosi Stratifi 2 cm N Deplet Thick f	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 ion, RM=R	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4 7.5YR 3/4 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark S Depleted Dark	nt the indica lox Features % 20 20 20 20 20 20 20 20 20 20 20 20 20	tor or co Type ¹	nofirm th	e absence of in Texture silt loam silt loam silt loam 2 Locati Indicators for Coast Pra Iron-Mang Other (Exp	ndicators.) Remarks
SOIL Profile Dee Depth (Inches) 0-1 1-13 ' ' 'Type: C=C Hydric Soi Histosi Histosi Histosi Histosi Histosi Deplet Thick I Sandy Sandy	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 ion, RM=R	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	the indica lox Features % 20 20 20 20 20 20 20 20 20 20 20 20 20	pated Sar	nofirm th	e absence of in Texture silt loarn silt loarn silt loarn silt loarn 2Locati Indicators for Coast Pra Iron-Mang Other (Exp SIndicators of I wetland hyd	ndicators.} Remarks Remarks remarks remarks remarks remarks remarks remarks
SOIL Profile De Depth (Inches) 0-1 1-13 1-13 Type: C=C Hydric Soi Histos: Histos: Histos: Histos: Stratifu 2 cm M Deplet Thick I Sandy 5 cm M	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	the indica tox Features % 20 20 20 20 20 20 20 20 20 20	ttor or co Type' Dated Sar	nfirm th	e absence of it Texture silt loarn silt	ndlcators.) Remarks Remarks Remarks Problematic Hydric Soils ³ : irie Redox (A16) anese Masses (F12) plain in Remarks) hydrophytic vegetation and drology must be present.
SOIL Profile Dee Depth (Inches) 0-1 1-13 1-13 Type: C=C Hydric Soi Histos Histos Histos Histos Stratifi 2 cm N Deplet Thick I Sandy 5 cm N Restrictive	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4 and the second	the indica lox Features % 20 20 overed or Co i Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F3) ix (F3) urface (F6) x Surface (F7) sions (F8)	pated Sar	nofirm th	e absence of in Texture silt loarn silt loarn silt loarn silt loarn silt loarn silt loarn silt loarn silt loarn silt loarn Silt loarn Coast Pra Coast Pra Iron-Mang Other (Exp Sindicators of I wetland hyd	ndicators.) Remarks
SOIL Profile Dee Depth (Inches) 0-1 1-13 1-13 Type: C=C Hydric Soi Histosi Histosi Histosi Histosi Stratifi 2 cm N Deplet Thick I Sandy 5 cm N Restrictive Type: Denth	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 ion, RM=R A11)	LRR: M	nt the indica lox Features % 20 20 overed or Co I Matrix (S4) (S5) xx (S6) Mineral (F1) d Matrix (F3) ix (F3) urface (F6) x Surface (F7) ssions (F8)	ttor or co Type' Dated Sar	nofirm th	e absence of in Texture silt loam silt loat dog silt loam silt loam sit loam	ndicators.) Remarks Remarks Remarks Remarks Remarks roblematic Hydric Soils ³ : irie Redox (A16) anese Masses (F12) blain in Remarks) hydrophytic vegetation and trology must be present. esent? Yes Yes Yes
SOIL Profile De: Depth (Inches) 0-1 1-13 'Type: C=C Hydric Sol Histosi Histosi Histosi Histosi Stratifi Stratifi C Cm N Deplett Thick I Sandy S cm N Restrictive Type: Depth: (Remarks:	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 ion, RM=R A11)	LRR: M needed to documer Rec Color (moist) 7.5YR 3/4 7.5YR 3/4 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark S Depleted Dark Redox Depres met.	nt the indica lox Features % 20 20 20 20 20 20 20 20 20 20 20 20 20	pater or co	nofirm th	e absence of it Texture silt loam silt loag? (if yes select of load silt pit dug?	ndicators.) Remarks Remarks Remarks roblematic Hydric Soils ³ : irie Redox (A16) anese Masses (F12) blain in Remarks) nydrophytic vegetation and irology must be present. esent? Yes Yes Yes preb: 1" Probe
SOIL Profile Dee Depth (Inches) 0-1 1-13 	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 ion, RM=R A11)	LRR: M	the indica lox Features % 20 20 overed or Co i Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F3) ix (F3) urface (F6) x Surface (F7) ssions (F8)	ttor or co Type' Dated Sar	nofirm th	e absence of it Texture silt loarn silt loarn solt prater solt pra	ndicators.} Remarks
SOIL Profile Dee Depth (Inches) 0-1 1-13 1-13 1-13 1-13 1-13 1-13 1-13	scription: (Describe to Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 2.5Y4 / 2 2	the depth % 100 80 on, RM=R A11)	LRR: M	the indica lox Features % 20 20 overed or Co i Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F3) ix (F3) urface (F6) x Surface (F7) sions (F8)	ttor or co	nofirm th	e absence of it Texture silt loam silt lo	ndicators.) Remarks Remarks Remarks Remarks ron: PL=Pore Lining, M=Matrix Problematic Hydric Soils ³ : irie Redox (A16) anese Masses (F12) blain in Remarks) hydrophytic vegetation and drology must be present. esent? Yes Yes Yes Pres Pres Yes Yes Yes Yes Yes Yes Yes Yes Yes Y

PAGE 2

Sampling Date: 6/29/2011 Sampling Point: SP32 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) Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B2) Geomorphic Position (D2) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (Inches): No Water Table Present? No Depth (Inches): Saturation Present? No Wetland Hydrology Present? Depth (Inches): Yes (includes capillary fringe) Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs No Recorded Data Remarks: The wetland hydrology criterion has been met. Wetland appears to be isolated with no observed inlet or outlet.



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP32 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW+	Herb	97	97%	Yes
Carex tribuloides	FACW+	Herb	1	1%	
Carex vulpinoidea	OBL	Herb	1	1%	
Glyceria striata	OBL	Herb	1	1%	
		Herb			
		Herb			_
		Herb			
· · ·		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap		-	
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap_			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	o		
		Tree		·	
		Tree			
		Tree	_		
		Tree			
		Tree			
		Tree			•
		TDM=	0		
		Vine			
		TDM=			



Project/Sit								
	te: Ever Power Project -	Wetland N		City/Cou	nty: Chan	npaign	Sampling D	ate: 6/29/2011
Applicant/	Owner: Ever Power Inc			State: O	H ·		Sampling P	oint: SP33
Investigat	or(s): B.M. Falkinburg /	H.F. Crowel	1 	Section,	Township	, Range:	:: 	
Landform ((hillslope, terrace, etc.):	Swale		Lo	cal relief (concave,	convex, none): Con	cave
Slope (%):	Lat		Long:		Datu	m:		
Soil Map U	Init Name: BsA, Brooks	ton silty clay	loam, 0-2% slopes			_ _ NV	VI classification:	
Are climation	c/hydrologic conditions of	on the site ty	pical for this time of	year? Ye	s (lfno,e	xplain in l	Remarks.)	
Are Vegeta	ation 🔲, Soil 🔯, or Hy	drology	significantly disturbe	ed? Are "N	ormal Circ	umstance	s" present? No	
Are Vegeta	ation 🔲, Soil 🗋, or Hy	drology 🗌 1	naturally problematic	? (If neede	d, explain	any answ	ers in Remarks).No)
SUMMAR	Y FINDINGS - Attac	h site ma	p showing sampli	ing point	location	s, transe	ects, important fe	eatures, etc.
Hydrophyti	ic Vegetation Present?	Yes		ls th	e Sampleo	l Area		
Hydric Soil	Present?	No		with	in a Wetla	nd? `	Yes	
Wetland H	ydrology Present?	Yes						
<u> </u>						<u>.</u>		
Remarks: I field with d unit for Cha	Recently graded drainag ominance of hydrophytic ampaign County, Ohio.	e swale (w/ c vegetation Thus, the re	in 12 months) - man and evidence of hyd equired wetland criter	made or m irology, but ria have be	an-Induced disturbed en met.	and mixe	comprised of a gras d soils. BsA is an N	ssy waterway in agriculture RCS mapped hydric soil
VEGETAT		(US	FWS Region No.	1 - North	east Sub	-Regior	ı)	
	See atta	ched sheet	for listing of plant	species ar	d identific	ation of	dominant vegetatio	on
Percent of	Dominant Species that	are OBL, FA	CW or FAC: (exclud	ing FAC-) *	= 3/3 = 100	%		
FAC Neutr	al Test: 2 > 0 = Pass							
Prevalence	e Index =							
Remarks:	The hydrophytic vegetat	ion criterion	has been met.					
SOIL								
Profile Der	scription: (Describe to	the depth	needed to documen	nt the indic	ator or co	nfirm the	absence of indica	ators.)
Depth	Matrix		Red	iox Feature	s.			······································
(Inches) 0-12	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type	LOC	silty clay loam	Remarks
0,2		-			· · ·			
				1				
							<u> </u>	
	· · · · · · · · · · · · · · · · · · ·							
			· · · · ·					
¹ Type: C=C Hydric Soil Histosc Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy	oncentration, D=Deplet I Indicators: bl (A1) Epipedon (A2) Histic (A3) en Sulfide (A4) ed Layers (A5) luck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1)	ion, RM=Re	duced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	overed or (Matrix (S4 (S5) x (S6) Mineral (F Matrix (F3) ix (F3) urface (F6) : Surface (F isions (F8)	Coated Sar) 1)) 7)	nd Grains	Zocation: f Indicators for Prot Coast Prairie R Iron-Manganes Other (Explain Indicators of hydro wetland hydrolog	PL=Pore Lining, M=Matrix olematic Hydric Soils ³ : tedox (A16) e Masses (F12) in Remarks) phytic vegetation and by must be present.
¹ Type: C=C Hydric Soil Histosc Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy I 5 cm M	oncentration, D=Deplet I Indicators: bi (A1) Epipedon (A2) distic (A3) gen Sulfide (A4) ed Layers (A5) luck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) lucky Peat or Peat (S3)	ion, RM=Re	duced Matrix, CS=Cl Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	overed or C Matrix (S4 (S5) x (S6) Mineral (F Matrix (F3) urface (F6) c Surface (F8)	Coated Sar) 1))	nd Grains		PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : tedox (A16) e Masses (F12) in Remarks) phytic vegetation and py must be present.
Type: C=C Hydric Soil Histosc Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy 5 cm M Restrictive	oncentration, D=Deplet I Indicators: bi (A1) Epipedon (A2) Histic (A3) Jen Sulfide (A4) ed Layers (A5) Juck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Jucky Peat or Peat (S3) Layer (if observed):	ion, RM=Re	duced Matrix, CS=Cl Sandy Gleyed Sandy Redox Stripped Matri Loarny Mucky Loarny Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	overed or C Matrix (S4 (S5) x (S6) Mineral (F I Matrix (F3 ix (F3) urface (F6) c Surface (F6) ssions (F8)	Coated Sar) 1)) 7)	nd Grains		PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : tedox (A16) e Masses (F12) in Remarks) phytic vegetation and by must be present.
¹ Type: C=C Hydric Soil Histosc Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy 5 cm M Restrictive Type: Depth: (i	oncentration, D=Deplet I Indicators: bi (A1) Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) luck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) lucky Peat or Peat (S3) Layer (If observed): inches):	ion, RM#Re	duced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loarny Mucky Loarny Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	overed or C Matrix (S4 (S5) x (S6) Mineral (F4) Mineral (F3) ix (F3) urface (F6) Surface (F8)	Coated Sar) 1)) 7)	ad Grains	² Location: If Indicators for Prob Coast Prairie R Iron-Manganes Other (Explain) ³ Indicators of hydro wetland hydrolog Hydric Soil Presen Soil pit dug?	PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : edox (A16) e Masses (F12) in Remarks) phytic vegetation and py must be present. t? Yes Yes
¹ Type: C=C Hydric Soil Histosc Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy 5 cm M Restrictive Type: Depth: (i Remarks:	oncentration, D=Deplet I Indicators: bi (A1) Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) luck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) lucky Peat or Peat (S3) Layer (if observed): inches): Sample Plot within a ma	A11)	duced Matrix, CS=Cl Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark Si Depleted Dark Redox Depres	overed or C Matrix (S4 (S5) x (S6) Mineral (F Mineral (F3) unface (F6) Surface (F6) Surface (F8) e mixed an	Coated Sar) 1)) 7) d disturbed	Ind Grains	 ²Location: f Indicators for Prot Coast Prairie R Iron-Manganes Other (Explain) ³Indicators of hydro wetland hydrolog Hydric Soil Presen Soil pit dug? (if yes select one): 	PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : tedox (A16) e Masses (F12) in Remarks) phytic vegetation and py must be present. t? Yes Yes 1" Probe
¹ Type: C=C Hydric Soil Histosc Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy I 5 cm M Restrictive Type: Depth: (i Remarks: man-induce	oncentration, D=Deplet I Indicators: bi (A1) Epipedon (A2) distic (A3) gen Sulfide (A4) ed Layers (A5) luck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) lucky Peat or Peat (S3) Layer (if observed): inches): Sample Plot within a mark ed wetland per 1987 mark	A11)	duced Matrix, CS=Cl Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	overed or C Matrix (S4 (S5) x (S6) Mineral (F3) unface (F6) c Surface (F6) c Surface (F8) e mixed an	coated Sar) 1)) 7) d disturbed	nd Grains	 ²Location: f Indicators for Prot Coast Prairie R Iron-Manganes Other (Explain Other (Explain) ³ Indicators of hydrowetland hydrolog Hydric Soil Present Soil pit dug? (if yes select one):	PL=Pore Lining, M=Matrix olematic Hydric Soils ³ : tedox (A16) e Masses (F12) in Remarks) phytic vegetation and ay must be present. t? Yes Yes 1" Probe
Type: C=C Hydric Soil Histosc Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy 5 cm M Restrictive Type: Depth: (i Remarks: man-induce	oncentration, D=Deplet I Indicators: bi (A1) Epipedon (A2) Histic (A3) Jen Sulfide (A4) ad Layers (A5) Juck (A10) ad Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Jucky Peat or Peat (S3) Layer (if observed): inches): Sample Plot within a ma ad wetland per 1987 mar	A11)	duced Matrix, CS=Cl Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark S Depleted Dark Redox Depres	overed or C Matrix (S4 (S5) x (S6) Mineral (F I Matrix (F3) urface (F6) c Surface (F6) sisions (F8)	coated Sar) 1)) 7) d disturbed	nd Grains	² Location: f Indicators for Prot Coast Prairie R Coast Prairie R Other (Explain Other (Explain)	PL=Pore Lining, M=Matrix Dematic Hydric Soils ³ : tedox (A16) e Masses (F12) in Remarks) phytic vegetation and ay must be present. t? Yes Yes 1" Probe
Type: C=C Hydric Soil Histosc Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy 5 cm M Restrictive Type: Depth: (i Remarks: man-induce	oncentration, D=Deplet I Indicators: bi (A1) Epipedon (A2) Histic (A3) len Sulfide (A4) ed Layers (A5) luck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) lucky Peat or Peat (S3) Layer (if observed): inches): Sample Plot within a mark ed wetland per 1987 mark	A11)	duced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	overed or C Matrix (S4 (S5) X (S6) Mineral (F I Matrix (F3) urface (F6) Surface (F6) Surface (F8) e mixed an	coated Sar) 1)) 7) d disturbed	ad Grains	² Location: If Indicators for Prob Coast Prairie R Iron-Manganes Other (Explain) ³ Indicators of hydro wetland hydrolog Hydric Soil Presen Soil pit dug? (if yes select one):	PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : edox (A16) e Masses (F12) in Remarks) phytic vegetation and py must be present. t? Yes 1" Probe

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		PAGE 2
		Sampling Date: 6/29/2011
		Samping Point 3P33
HYDROLOGY		
Primary Indicators (minimum of one is required:	check all that apply)	<u>Secondary Indicators (minimum of two</u> required)
Surface Water (A1)	Water-Stained Leaves (B9)	X Surface Soii 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 (B2)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)
🗍 Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	X FAC-Neutral Test (D5)
🔲 Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)
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? No Depth (In	ches):	
Water Table Present? No Depth (In	ches):	
Saturation Present? No Depth (In (includes capillary fringe)	ches): Wetland Hydrology Pr	resent? Yes
Recorded Data (Describe in Remarks):	·	
☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other		
No Recorded Data		
Remarks: The wetland hydrology criterion has b	een met.	
Wetland appears to be non-isolated, outlets to w S.	etland ditch in upland woods to east and eventually	drains through agriculture fields off site to Stream

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP33 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Echinochloa municala	FACW+	Herb	90	90%	Yes
Eleocharis obtusa	OBL	Herb	8	8%	
Carex squarrosa	FACW	Herb	2	2%	
		Herb			
		Herb	· · · · · · · · · · · · · · · · · · ·		
		Herb	L		
		TDM≂	100		
Salix nigra	FACW+	Shrub/Sap	1	50%	Yes
Populus deltoides	FAC	Shrub/Sap	1	50%	Yes
		Shrub/Sap			
[Shrub/Sap			
<u> </u>		Shrub/Sap			.
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
	, 	Shrub/Sap			
· · · · · · · · · · · · · · · · · · ·		Shrub/Sap			
		TDM≖	2		
	<u> </u>	Tree			
		Tree			
· · · ·		Tree	· · · · · · · · · · · · · · · · · · ·		
		Tree			
		TDM≃	<u> </u>	(
		Vine			
		TDM≈	0		

Project/Si	te: EVP010 Phase }			City/Cou	nty: Cham	ipaign Co	. Sampl	ing Date: 10/11/11
Applicant	Owner: Everpower			State: O	н		Sampl	ing Point: SP39
Investigat	or(s): BMF		An	Section,	Township	, Range:	1	
Landform	(hillslope, terrace, etc.): s	wale		Lc	cal relief (d	concave,	convex, none)	: concave swale
Slope (%):	12-18 Lat: 40.	15260	Long: 83.	66706		Datum: V	VGS 1984	
Soil Map U	Init Name: Miami silt loa	m				NM	/I classification	n: None
Are climati	c/hydrologic conditions o	n the site ty	pical for this time of	year? Ye	s (lfno,e:	xplain in l	Remarks.)	
Are Vegeta	ation 🔲, Soil 🔲, or Hyd	irology 📋	significantly disturbe	d? Are "N	ormal Circu	umstance	s" present?	Yes
Are Vegeta	ation 🔲, Soil 🔲, or Hyd	irology 🗌 r	naturally problematic?	? (If neede	d, explain a	any answ	ers in Remark	s).No
SUMMAR	Y FINDINGS - Attac	h site maj	o showing sampli	ing point	locations	s, transe	ects, importa	ant features, etc.
Hydrophyti	ic Vegetation Present?	Yes		Is th	e Sampled	Агеа		
Hydric Soi	Present?	Yes		with	in a Wetlar	nd? `	res	
Wetland H	vdrology Present?	Yes						
Treading 11	falology i loboliti	103						
Remarks:	PEM Linear Wetland, no	n-isolated, 8	3 flags, Wetland Q					
VEGETA	TION	(ບຣ	FWS Region No.	1 - North	east Sub	-Region)	······································
	See attac	ched sheet	for listing of plant s	species an	d identific	ation of	dominant veg	etation
Percent of	Dominant Species that a	are OBL, FA	CW or FAC: (excludi	ing FAC-) =	= 2/2 = 100	%		
FAC Neutr	al Test: 2 > 0 = Pass							
Prevalence	e Index = 2.10							
Remarks:	Hydrophytic plant cimmu	nity is prese	ent					
SOIL			LRR: M					
Profile De	scription: (Describe to	the depth	needed to documer	nt the indic	ator or co	nfirm the	absence of i	indicators.)
Depth (Inches)	Color (moist)	%	Color (moist)	box Feature	S Type ¹	1.002	Texture	Remarks
0-3	10YR 3/2	100				200	silty clay	
3-5								soil colors mixed,
5-12	10VP 5/2	70		30			silty clay	disturbed
21-0	10111 072			1			oncy oncy	
								-
	· · · ·							
Type: C=C	Concentration, D=Depleti il Indicators: b! (A1) = pipedon (A2)	ion, RM=Re	duced Matrix, CS=C	United or (Coated Sar	nd Grains	Locat Indicators for Coast Pra	tion: PL=Pore Lining, M=Matrix r Problematic Hydric Soils ³ : airie Redox (A16)
Black I	Histic (A3) gen Sulfide (A4) ed Layers (A5)		Sandy Redox	(S5) ix (S6) Mineral (F Matrix (F3	1) 3)			plain in Remarks)
	/luck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) /lucky Peat or Peat (S3)	A11)	Depleted Matr Redox Dark S Depleted Dark Redox Depres	rix (F3) surface (F6) ssions (F8)) - 7)		^o Indicators of wetland hy	hydrophytic vegetation and drology must be present.
Restrictive Type:	E Layer (if observed):						Hydric Soil Pi Soil pit dug?	resent? Yes
Remarks:	Hydric soil is present					;	(if yes select	one): 1" Probe
	- ·		ang belan sing and a second second second					

		PAGE 2
		Sampling Date: 10/11/11
	·	Sampling Point: SP39
HYDROLOGY		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec	uired: 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)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B2)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	🛛 FAC-Neutral Test (D5)
Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface	(B8) 🔲 Other (Explain in Remarks)	
Field Observations:		na na sana na sa
Surface Water Present? No De	oth (Inches):	
Water Table Present? No De	oth (Inches):	
Saturation Present? No De (includes capillary fringe)	oth (Inches): Wetland Hydrology F	resent? Yes
 Recorded Data (Describe in Remain Remains) Stream, Lake, or Tide Gauge Aerial Photographs Other 	arks):	
No Recorded Data		
Remarks: Two secondary indicators of hy	drology are present	



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP39 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Cyperus esculentus	FACW	Herb	50	50%	Yes
Echinochloa crusgalli	FACU	Herb	5	5%	
Polygonum pensylvanicum	FACW	Herb	10	10%	
Aster lateriflorus	FACW-	Herb	20	20%	Yes
Poa palustris	FACW	Herb	13	13%	
Eupatorium perfoliatum	FACW+	Herb	2	2%	
		Herb			
		TDM≒	100		
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Тгее			
		Tree			
		Tree	· · · · · · · · · · · · · · · · · · ·		
		Tree			
		Tree			
		Tree			
	··· · · · · · ·	Тгее			
		TDM=	0		
		Vine			
		TDM⇔	0		

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n -	te: EVPOID Phase i			City/Cour	nty: Champ	baign Co	. Sampling	Date: 10/13/11
Applicant	/Owner: Everpower			State: OH	I		Sampling	Point: SP43
Investigat	tor(s): BMF			Section, 1	Township,	Range:	1	
Landform (Slope (%): Soil Map L Are climati Are Vegeta Are Vegeta	(hillslope, terrace, etc.): 0-2 Lat: 40.08 Jnit Name: Brookston sil ic/hydrologic conditions o ation], Soil], or Hyd ation], Soil], or Hyd	898 ty clay loan in the site t trology trology	Long: 83.60 n ypical for this time of y significantly disturbe naturally problematic?	Jeen Loo 3669 year? Yes ad? Are "No ? (if needed	cal relief (ca D : : (If no, ex ormal Circu 1, explain a	oncave, atum: W NV plain in I mstance ny answ	convex, none): CC GS 1984 /I classification: Pl Remarks.) s° present? Yes ers in Remarks).N	DNCAVE EM1C s lo
SUMMAR	RY FINDINGS – Attac	h site ma	p showing sampli	ng point l	ocations,	, transe	ects, important	features, etc.
Hydrophyt Hydric Soi Wetland H	ic Vegetation Present? Il Present? Ivdrology Present?	Yes Yes Yes		ls the withir	Sampled n a Wetlan	Area d? `	Yes	
			······································					<u> </u>
Remarks:	vvetland T, ten flags, isol	ated						
VEGETA	TION	(U	SFWS Region No.	1 - Northe	east Sub-	Region)	
	See attac	ched shee	t for listing of plant :	species and	d identifica	ation of	dominant vegeta	tion
Percent of	Dominant Species that a	are OBL, F	ACW or FAC: (exclud	ing FAC-) =	3/3 = 100	%		
FAC Neut	ral Test: 3 >0 = Pass							
Prevalence	e Index =							
Remarks:	Hydrophytic plant comm	unity is pre	sent					
801								
			LRR: M					
Profile De	scription: (Describe to	the depth	LRR: M	t the indica	ator or cor	nfirm the	absence of indi	cators.)
Profile De Depth (Inches)	scription: (Describe to Matrix Color (moist)	the depth	LRR: M needed to documer Rec Color (moist)	t the indicators for the indicators of the indic	ator or cor s Type'	nfirm the	absence of indi	cators.) Remarks
Profile De Depth (Inches) 0-6	scription: (Describe to Matrix Color (moist) 2.5Y5 / 1	the depth % 80	LRR: M needed to documer Rec Color (moist) 2.5Y4 / 2	t the indication for the indication for the indication of the indi	ator or cor s Type'	Loc ²	absence of indi	cators.) Remarks DAMP
Profile De Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y5 / 1 2.5Y4 / 1	the depth % 80 90	LRR: M needed to documer Color (moist) 2.5Y4 / 2 2.5Y5 / 2	t the indicator lox Features % 20 10	ator or cor s Type ⁱ	firm the	absence of Indi Texture SILT LOAM SILT LOAM	cators.) Remarks DAMP CONCENTRATIONS
Profile De Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y5 / 1 2.5Y4 / 1	the depth % 80 90	LRR: M needed to documer Color (moist) 2.5Y4 / 2 2.5Y5 / 2	t the indication for the indication of the indic	ator or cor s Type ¹	Loc ²	absence of Indi Texture SILT LOAM SILT LOAM	Cators.) Remarks DAMP CONCENTRATIONS
Profile De Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y5 / 1 2.5Y4 / 1	the depth % 80 90	LRR: M needed to documer Rec Color (moist) 2.5Y4 / 2 2.5Y5 / 2	t the Indica lox Features % 20 10	ator or cor s Type ¹	Loc ²	absence of indi Texture SILT LOAM SILT LOAM	Cators.) Remarks DAMP CONCENTRATIONS
Profile De Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y5 / 1 2.5Y4 / 1	the depth % 80 90	LRR: M needed to documer Color (moist) 2.5Y4 / 2 2.5Y5 / 2	t the indicators Features % 20 10	ator or cor s Type'	Loc ²	absence of indi	cators.)
Profile De Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y5 / 1 2.5Y4 / 1	the depth % 80 90	LRR: M needed to documer Color (moist) 2.5Y4 / 2 2.5Y5 / 2	t the indicators Features	ator or cor s Type ¹	Loc ²	absence of indi Texture SILT LOAM SILT LOAM	cators.)
Profile De Depth (Inches) 0-6 6-12 'Type: C=0 Hydric So Histos Histos Histos Histos Hydric So Histos Deplet Deplet Thick I Sandy 5 cm M	Scription: (Describe to Matrix Color (moist) 2.5Y5 / 1 2.5Y5 / 1 2.5Y4 / 1 2.5Y4 / 1 1 Concentration, D=Deplet 1 Indicators: 01 (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) 1 ied Layers (A5) Muck (A10) ted Below Dark Surface (A12) 1 Mucky Mineral (S1) Mucky Peat or Peat (S3)	the depth % 80 90 ion, RM=R	LRR: M needed to documer Rec Color (moist) 2.5Y4 / 2 2.5Y5 / 2 2.5	t the indica lox Features % 20 10 10 overed or C Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F3) rix (F3) urface (F6) < Surface (F8)	ator or cor s Type' oated Sand)))	Loc ²	absence of Indi Texture SILT LOAM SILT LOAM SILT LOAM L L L L L L L L L L L L L L L L L L	cators.) Remarks DAMP CONCENTRATIONS CONCENTRATIONS E
Profile De Depth (Inches) 0-6 6-12 'Type: C=C Hydric So Histos Histos Histos Histos Histos Histos Histos Histos Histos CHydric So Histos Histo	Scription: (Describe to Matrix Color (moist) 2.5Y5 / 1 2.5Y4 / 1 2.5Y5 / 1 2.5Y4 / 1 2.5Y5 / 1 2.5Y4 / 1 2	the depth % 80 90 ion, RM=R	LRR: M needed to documer Rec Color (moist) 2.5Y4 / 2 2.5Y5 / 2 2.5Y5 / 2 color (moist) 2.5Y5 / 2 color	the indicators Features 20 10 10 10 10 10 10 10 10 10 1	ator or cor s Type' oated Sand)))	d Grains	absence of Indi Texture SILT LOAM SILT LOAM SILT LOAM au	cators.) Remarks DAMP CONCENTRATIONS CONCENTRATIONS PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) n in Remarks) rophytic vegetation and logy must be present. ent? Yes Yes :): 1" Probe

<u></u>			PAGE 2
			Sampling Date: 10/13/11
HYDROLOGY Wetland Hydrology Indicators:			······································
Primary Indicators (minimum of one is	s 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)	Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B2)		Presence of Reduced Iron (C4)	Geomorphic Position (D2)
Aigal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Iron Deposits (B5)		Thin Muck Surface (C7)	Other (Explain in Remarks)
Inundation Visible on Aerial Image	эгу (B7)	Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surf	face (B8)	Other (Explain in Remarks)	
Field Observations:			· · · · · · · · · · · · · · · · · · ·
Surface Water Present? No	Depth (In	ches):	
Water Table Present? No	Depth (In	ches):	
Saturation Present? No (includes capillary fringe)	Depth (In	ches): Wetland Hydrology Pr	resent? Yes
Recorded Data (Describe in Re	emarks):		
Stream, Lake, or Tide Gau Aerial Photographs	ge		
No Recorded Data			
Remarks: Three secondary indicators	of wetian	d hydrology are present.	



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Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #43 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	OBL	Herb	55	55%	Yes
Polygonum pensylvanicum	FACW	Herb	30	30%	Yes
Cyperus esculentus	FACW	Herb	3	3%	
Lactuca serriola	FAC-	Herb	10	10%	
Echinochloa crusgalli	FACU	Herb	1	1%	
Setaria faberi	UPL	Herb	1	1%	
		Herb			
	-	TDM≃	100		
Acer saccharinum	FACW	Shrub/Sap	10	100%	Yes
		Shrub/Sap			
		TDM≔	10		
		Tree			
	<u></u>	Tree			
		TDM=	0		
		Vine			
		TDM=	0		



Project/Si	te: EVP010 Phase I			City/County: Cha	npaign Co	o. Sampling I	Date: 10/13/11
Applicant	Owner: Everpower			State: OH		Sampling I	Point: SP44
Investigat	or(s): BMF			Section, Townshi	p, Range		
Landform	(hillslope, terrace, etc.):			Local relief	concave,	convex, none):	
Slope (%):	0-2 Lat: 40.08	450	Long: 83.60	1255	Datum: W	/GS 1984	
Soil Map U	Init Name: Brookston sill	ty clay loarr	ו		N\	VI classification: No	ne
Are climati	c/hydrologic conditions o	n the site ty	pical for this time of	year? Yes (If no,	explain in	Remarks.)	
Are Vegeta	ation 🔲, Soil 🔲, or Hyd	irology 🔲	significantly disturbe	ed? Are "Normal Circ	umstance	es" present? Yes	
Are Veget	ation 🔲, Soil 🔲, or Hyd	irology 🗌 i	naturally problematic	? (if needed, explain	any ansv	/ers in Remarks).No)
	RY FINDINGS – Attac	<u>h site ma</u>	p showing sampli	ing point location	s, trans	ects, important f	eatures, etc.
Hydrophyt	ic Vegetation Present?	Yes		is the Sample	d Area		
Hydric Soi	Present?	Yes		within a Wetla	ınd?	Yes	
Wetland H	lydrology Present?	Yes					,
Domorko		had					······
rteinarts:	wedand O, o hags, isola	160					
VEGETA			SEWS Region No.	1 - Northeast Su	-Regio		
VEGETA	See atta	ched sheet	t for listing of plant	species and identifi	cation of	dominant vegetat	ion
Percent of	Dominant Species that a	are OBL, FA	ACW or FAC: (exclud	ing FAC-) = $2/2 = 75$	%		
FAC Neutr	ral Test: 1 > 0 = Pass						
Prevalence	e Index =						
Remarks:	Hydrophytic plant comm	unity is pres	sent				
SOIL			LRR: M			· · · · · · · · · · · · · · · · · · ·	·······
SOIL Profile De	scription: (Describe to	the depth	LRR: M needed to documer	nt the indicator or c	onfirm th	e absence of Indic	ators.)
SOIL Profile De Depth (Inches)	scription: (Describe to Matrix Color (moist)	the depth %	LRR: M needed to documer Red Color (moist)	nt the indicator or c lox Features % Type'	onfirm th	e absence of Indic	ators.)
SOIL Profile De Depth (Inches) 0-7	scription: (Describe to Matrix Color (moist) 10YR 3 / 1	the depth % 85	LRR: M needed to documer Color (moist) 10YR 4 / 4	nt the indicator or c lox Features % Type' 15	onfirm th	e absence of Indic Texture SILT LOAM	Remarks
SOIL Profile De Depth (Inches) 0-7 7-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95	LRR: M needed to documer Rec Color (moist) 10YR 4/4 2.5Y5/3	t the indicator or c lox Features % Type' 15 5	Loc ²	e absence of Indic Texture SILT LOAM SILTY CLAY	ators.) Remarks DAMP DAMP
SOIL Profile De Depth (Inches) 0-7 7-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95	LRR: M needed to documer Red Color (moist) 10YR 4/4 2.5Y5/3	nt the indicator or c lox Features % Type' 15 5		e absence of Indic Texture SILT LOAM SILTY CLAY	ators.) Remarks DAMP DAMP
SOIL Profile De Depth (Inches) 0-7 7-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95	LRR: M needed to documer Color (moist) 10YR 4/4 2.5Y5/3	nt the indicator or c dox Features % Type' 15 5		e absence of Indic Texture SILT LOAM SILTY CLAY	ators.) Remarks DAMP DAMP
SOIL Profile De Depth (Inches) 0-7 7-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95	LRR: M needed to documer Color (moist) 10YR 4/4 2.5Y5/3	nt the indicator or c dox Features % Type' 15 5		e absence of Indic Texture SILT LOAM SILTY CLAY	ators.) Remarks DAMP DAMP
SOIL Profile De Depth (Inches) 0-7 7-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95	LRR: M needed to documer Red Color (moist) 10YR 4/4 2.5Y5/3	nt the indicator or c lox Features % Type' 15 5		e absence of Indic Texture SILT LOAM SILTY CLAY	ators.) Remarks DAMP DAMP
SOIL Profile De Depth (Inches) 0-7 7-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95 	LRR: M needed to documer Color (moist) 10YR 4 / 4 2.5Y5 / 3	nt the indicator or c lox Features % Type' 15 5	Loc ²	e absence of Indic Texture SILT LOAM SILTY CLAY	ators.) Remarks DAMP DAMP
SOIL Profile De Depth (Inches) 0-7 7-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1	the depth 85 95 ion, RM=Re	LRR: M needed to documer Color (moist) 10YR 4/4 2.5Y5/3	nt the indicator or c dox Features % Type' 15 5 5 	Loc ²	e absence of Indic Texture SILT LOAM SILTY CLAY	Remarks DAMP DAMP DAMP P PL=Pore Lining, M=Matrix blematic Hydric Soils ² :
SOIL Profile De Depth (Inches) 0-7 7-12	Scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 Concentration, D=Deplet I Indicators: ol (A1)	the depth 85 95 ion, RM=Re	LRR: M needed to documer Color (moist) 10YR 4 / 4 2.5Y5 / 3 color document color	nt the indicator or c dox Features % Type' 15 5 5 overed or Coated Sa Matrix (S4)	nd Grains	absence of Indic Texture SILT LOAM SILTY CLAY absorbed s. ² Location: Indicators for Pro Coast Prairie	Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix belematic Hydric Soils ⁵ : Redox (A16)
SOIL Profile De Depth (Inches) 0-7 7-12 'Type: C=0 Hydric So Histos Histos	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 Concentration, D=Deplet I Indicators: ol (A1) Epipedon (A2)	the depth % 85 95 ion, RM=Re	LRR: M needed to documer Color (moist) 10YR 4 / 4 2.5Y5 / 3 educed Matrix, CS=C	nt the indicator or c iox Features % Type' 15 5 	Loc ²	absence of India Texture SILT LOAM SILTY CLAY SILTY CLAY a contemport Coast Prairie I Iron-Mangane	Remarks DAMP DAMP DAMP P PL=Pore Lining, M=Matrix blematic Hydric Soils ⁵ : Redox (A16) se Masses (F12)
SOIL Profile De Depth (Inches) 0-7 7-12 ' 'Type: C=C Hydric So Histos Histos Black	Scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 Concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3)	the depth % 85 95 ion, RM=Re	LRR: M needed to documer Color (moist) 10YR 4 / 4 2.5Y5 / 3 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri	ht the indicator or c lox Features % Type' 15 5 5 covered or Coated Sa Matrix (S4) (S5) ix (S6)	nd Grains	absence of Indic Texture SILT LOAM SILTY CLAY SILTY CLAY a a a a a a a a a a a a a	Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix belematic Hydric Soils ⁵ : Redox (A16) se Masses (F12) a in Remarks)
SOIL Profile De Depth (Inches) 0-7 7-12 'Type: C=C Hydric So Histos Histos Histoc Histoc Stratifi	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 Concentration, D=Deplet I Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Lavers (A5)	the depth 85 95 ion, RM=Re	LRR: M needed to documer Color (moist) 10YR 4 / 4 2.5Y5 / 3	the indicator or c lox Features % Type' 15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Loc ²	absence of Indic Texture SILT LOAM SILTY CLAY SILTY CLAY absolute SILTY CLAY Coast Prairie Coast Prairie Iron-Mangane Other (Explain	Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ⁵ : Redox (A16) se Masses (F12) in Remarks)
SOIL Profile De Depth (Inches) 0-7 7-12 'Type: C=0 Hydric So Histic Black Hydrod Strattfi 2 cm	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 Concentration, D=Deplet I Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Auck (A10)	the depth 85 95 ion, RM=Re	LRR: M needed to documer Color (moist) 10YR 4 / 4 2.5Y5 / 3 Color (moist) 10YR 4 / 4 Color (moist) C	At the indicator or c tox Features % Type' 15 5 5 5 5 5 5 5 5 5 5 5 5 5	nd Grains	e absence of Indic Texture SILT LOAM SILTY CLAY 	Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix belematic Hydric Soils ⁵ : Redox (A16) se Masses (F12) in Remarks)
SOIL Profile De Depth (Inches) 0-7 7-12 ' 'Type: C=0 Hydric So Histic Black Hydrog Stratifi 2 cm M Deplet	Scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 Concentration, D=Deplet I Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) red Below Dark Surface (the depth 85 95 ion, RM=Re	LRR: M needed to documer Color (moist) 10YR 4 / 4 2.5Y5 / 3 document educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark S	At the indicator or c tox Features % Type ¹ 15 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	nd Grains	e absence of Indic Texture SILT LOAM SILTY CLAY SILTY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY	Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix belematic Hydric Soils ⁵ : Redox (A16) se Masses (F12) a in Remarks)
SOIL Profile De Depth (Inches) 0-7 7-12 7-12 'Type: C=0 Hydric So Histic Black Hydrog Stratifi 2 cm M Deplef Thick I	Scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Auck (A10) red Below Dark Surface (Dark Surface (A12)	the depth % 85 95 ion, RM=Re	LRR: M needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark S Depleted Darl	the indicator or c tox Features % Type' 15 5 5 covered or Coated Sa 4 Matrix (S4) (S5) ix (S6) 9 Mineral (F1) d Matrix (F3) ix (F3) Surface (F6) k Surface (F7)	Ind Grains	e absence of India Texture SILT LOAM SILTY CLAY SILTY CLAY a. 2Location: Indicators for Pro Coast Prairie I Iron-Mangane Other (Explair PIndicators of hydr	Remarks DAMP DAMP DAMP DAMP PL=Pore Lining, M=Matrix belematic Hydric Soils ⁵ : Redox (A16) se Masses (F12) n in Remarks)
SOIL Profile De Depth (Inches) 0-7 7-12 'Type: C=C Hydric So Histic Histos Histic Black Hydrog Stratifi 2 cm M Deplet Thick Sandy	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95 ion, RM=Re	LRR: M needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 2.	the indicator or c tox Features % Type' 15 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	Ind Grains	absence of Indic Texture SILT LOAM SILTY CLAY SILTY CLAY a absence of Indic SILTY CLAY absence of Indic SILTY CLAY absence of Indicators absence of Indicators absence of Indicators of Proc SILTY CLAY absence of Indicators of hydr wetland hydrold	ators.) Remarks DAMP DAMP DAMP DAMP PL=Pore Lining, M=Matrix oblematic Hydric Soils>: Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and ogy must be present.
SOIL Profile De Depth (Inches) 0-7 7-12 ' 'Type: C=0 Hydric So Histic Black Histos Histic Black Hydrog Stratifi 2 cm M Deplet Thick Sandy 5 cm M Restrictive	Scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) red Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) E Layer (if observed):	the depth 85 95 ion, RM=Re A11)	LRR: M needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 2.	t the indicator or c tox Features % Type' 15 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	Ind Grains	e absence of India Texture SILT LOAM SILTY CLAY SILTY CLAY a a a a a a a a a a a a a a a a a a	Remarks DAMP Deltation Deltation PL=Pore Lining, M=Matrix Bellatic Hydric Soils ⁵ : Redox (A16) se Masses (F12) in Remarks) Ophytic vegetation and orgy must be present.
SOIL Profile De Depth (Inches) 0-7 7-12 7-12 ' Type: C=0 Hydric So Histic Black Hydrog Stratifi 2 cm M Deplet Thick Sandy 5 cm M Restrictive Type:	Scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95 ion, RM=Re A11)	LRR: M needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 Color (moist) 10YR 4 / 4 2.5Y5 / 3 Color (moist) C	t the indicator or c tox Features % Type' 15 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7	nd Grains	e absence of Indic Texture SILT LOAM SILTY CLAY SILTY CLAY 	Remarks DAMP DAMP DAMP DAMP PL=Pore Lining, M=Matrix belematic Hydric Soils ² : Redox (A16) se Masses (F12) a in Remarks) ophytic vegetation and bgy must be present. nt? Yes
SOIL Profile De Depth (Inches) 0-7 7-12 7-12 ' Type: C=C Hydric So Histic Black Hydrog Stratifi 2 cm M Deplef Thick I Sandy 5 cm M Restrictive Type: Dept:	Scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) //uck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) //ucky Peat or Peat (S3) e Layer (if observed): (inches):	the depth % 85 95 ion, RM=Re	LRR: M needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark S Depleted Darl Redox Depres	the indicator or c iox Features % Type ¹ 15 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	Ind Grains	e absence of Indic Texture SILT LOAM SILTY CLAY SILTY CLAY 	Ators.) Remarks DAMP DAMP DAMP Remarks Remarks PL=Pore Lining, M=Matrix PL=Pore Lining, M=Matri
SOIL Profile De Depth (Inches) 0-7 7-12 ' 'Type: C=C Hydric So Histic Histos Histic Black Hydroo Stratifi 2 cm M Deplet Thick Sandy 5 cm M Restrictive Type: Depth: Remarks:	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth % 85 95 ion, RM=Re A11)	LRR: M needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 document educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark S Depleted Darl Redox Depres	the indicator or c iox Features % Type ¹ 15 5 5 iovered or Coated Sa 4 Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F3) rix (F3) Surface (F6) k Surface (F7) assions (F8)	Ind Grains	e absence of Indic Texture SILT LOAM SILTY CLAY SILTY CLAY 2 2 2 2 2 3 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	ators.) Remarks DAMP Particle Planetic
SOIL Profile De Depth (Inches) 0-7 7-12 7-12 7-12 Figure C=C Hydric So Histic Histos Histic Black Hydrod Stratifi 2 cm M Deplet Thick Sandy 5 cm M Restrictive Type: Depth: Remarks:	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1	the depth 85 95 ion, RM=Re A11)	LRR: M needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3	the indicator or c tox Features % Type ¹ 15 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	onfirm th	e absence of Indic Texture SILT LOAM SILTY CLAY SILTY CLAY 2 2 2 2 2 3 2 1 1 1 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Remarks DAMP Departure Probe

		PAGE 2
		Sampling Date: 10/13/11
		Sampling Point: SP44
HYDROLOGY		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	<u>; check all that apply)</u>	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)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B2)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)
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? No Depth (Ir	iches):	
Water Table Present? No Depth (In	iches):	
Saturation Present? No Depth (Ir (Includes capiliary fringe)	iches): Wetland Hydrology P	r esent? Yes
 Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Remarks: Two secondary hydrologic indicators 	are present.	



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #44 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Lactuca serriola	FAC	Herb	15	20%	Yes
Typha latifolia	OBL.	Herb	40	47%	Yes
Echinochloa muricata	FACW+	Herb	5	6%	
Epilobium coloratum	OBL	Herb	20	10%	
Lycopus uniflorus	OBL	Herb	5	1%	
Setaria faberi	UPL	Herb	1	1%	
		Herb			
		TDM=	86		
Ulmus americana	FACW-	Shrub/Sap	3	100%	No
		Shrub/Sap			
		Shrub/Sap			
	<u></u>	Shrub/Sap			
		Shrub/Sap			
	<u> </u>	Shrub/Sap			
		Shrub/Sap			
		TDM⇔	3		
Fraxinus pennsylvanica	FACW	Tree	1	100%	No
		Tree			
		TDM=	1		
		Vine			
	. <u></u>	TDM=	0		

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Project/Sit	te: EVP010 Phase I			City/County: Cha	mpaign Co.	Sampling D	ate: 10/13/11	
Applicant/	Owner: Everpower			State: OH		Sampling P	oint: SP45	
Investigat	or(s): BMF			Section, Township, Range: :				
Landform (Landform (hillslope, terrace, etc.): Local relief (concave, convex, none):							
Slope (%):0-3 Lat: 40.06022 Long: 83.60437 Datum: WGS 1984						144 A		
Are elimeti	nit name: wea siit ioan	l un tha aita tu	minal far this time of	voor? Voo (if no	ovelais in Por	nassincauon: PEI	MIA	
Are Cumau	tion II Coll II of Use		pical for this time of the state of the stat	year? Tes (ii 110,		naiks.)		
Are Vegela	ation, Soil, of Hyd	arology 门 r	significantiy disturbe	our Are Nurmar Cin		in Romodia) No.		
Are vegeta			laturally problematic				<u>-,</u>	
	Y FINDINGS – Attac	h site ma	p showing sampli	ng point location	is, transect	s, important fe	eatures, etc.	
Hydrophyti	c Vegetation Present?	Yes		is the Sample	d Area			
Hydric Soil	Present?	Yes		within a Wetla	and? Yes	;		
Wetland H	ydrology Present?	Yes						
Remarks: \	Wetland V, isolated			I		• • • • • • • • • • • • • • • • • • •	······································	
		1 = 10 - 1 0						
VEGETA		(US	FWS Region No.	1 - Northeast Su	b -Region)			
	See attac	ched sheet	for listing of plant	species and identif	cation of do	minant vegetatio	n	
Percent of	Dominant Species that a	are OBL, FA	CW or FAC: (exclud	ing FAC-) = 2/2 = 10	0 %			
FAC Neutr	al Test: 2 > 0 = Pass							
Prevalence	e Index =							
Remarks:	Hydrophytic plant commi	unity is pres	sent					
SOIL			LRR: M					
SOIL Profile Des	scription: (Describe to	the depth	LRR: M	nt the indicator or c	onfirm the al	bsence of indica	ators.)	
SOIL Profile Des Depth (Inches)	scription: (Describe to Matrix Color (moist)	the depth	LRR: M needed to documen Rec Color (moist)	ht the indicator or c box Features % Type'	onfirm the al	osence of indica	ators.) Remarks	
SOIL Profile Des Depth (Inches) 0-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1	the depth % 100	LRR: M needed to documer Rec Color (moist)	t the indicator or c lox Features % Type'	Onfirm the al	bsence of Indica Texture silty clay	ators.) Remarks	
SOIL Depth (Inches) 0-12	Color (moist) 10YR 3 / 1	the depth % 100	LRR: M needed to documer Rec Color (moist)	nt the indicator or c jox Features % Type'	Loc ²	bsence of Indica Texture silty clay	ntors.) Remarks	
SOIL Profile Des Depth (Inches) 0-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1	the depth % 100	LRR: M needed to documer Rec Color (moist)	nt the indicator or o	Loc ²	bsence of indica Texture sity clay	Remarks	
SOIL Profile Des Depth (Inches) 0-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1	the depth % 100	LRR: M needed to documer Rec Color (moist)	nt the indicator or c tox Features % Type'	Loc ²	osence of Indica Texture silty clay	ntors.) Remarks	
SOIL Profile Dest Depth (Inches) 0-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1	the depth % 100	LRR: M needed to documer Rec Color (moist)	t the indicator or c iox Features % Type'	Loc ²	bsence of Indica Texture silty clay	ntors.) Remarks	
SOIL Profile Des Depth (Inches) 0-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1	the depth % 100	LRR: M needed to documer Rec Color (moist)	nt the indicator or c	Loc ²	bsence of Indica Texture silty clay	ators.)	
SOIL Profile Des Depth (Inches) 0-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1	the depth % 100	LRR: M needed to documer Rec Color (moist)	t the indicator or o	Loc ²	Texture silty clay	Remarks	
SOIL Profile Dest Depth (Inches) 0-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 oncentration, D=Deplet	the depth % 100	LRR: M needed to documer Color (moist)	nt the indicator or or iox Features % Type	And Grains.	2Location: I	Remarks Remarks PL=Pore Lining, M=Matrix blematic Hydric Soils ³ :	
SOIL Profile Dest Depth (Inches) 0-12 'Type: C=C Hydric Soi Histoso	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 00000000000000000000000000000000000	the depth % 100 ion, RM≈Re	LRR: M needed to documer Rec Color (moist)	nt the indicator or or box Features % Type' 	And Grains.	2Location: I Coast Prairie R	Remarks Remarks PL=Pore Líning, M=Matrix Dematic Hydric Soils ^{>} : Redox (A16)	
SOIL Profile Dest Depth (Inches) 0-12 'Type: C=C Hydric Soi Histos	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 10YR 3 / 1 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2)	the depth % 100 	LRR: M needed to documer Rec Color (moist) C	nt the indicator or or tox Features % Type' yet overed or Coated Sa Matrix (S4) (S5)	and Grains.	² Location: I dicators for Prof Coast Prairie R iron-Manganes	PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) re Masses (F12)	
SOIL Profile Dest Depth (Inches) 0-12 'Type: C=C Hydric Soi Histics Black I Black I Histics	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 10YR 3 / 1 00000000000000000000000000000000000	the depth % 100	LRR: M needed to documer Rec Color (moist) C	nt the indicator or or to Features % Type year year overed or Coated Sa Matrix (S4) (S5) ix (S6) Minoreal (51)	and Grains.	² Location: I dicators for Prof Coast Prairie R Iron-Manganes Other (Explain	Remarks Remarks PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) te Masses (F12) in Remarks)	
SOIL Profile Dest Depth (Inches) 0-12 0-12 0-12 0-12 0-12 0-12 0-12 0-12	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 10YR 3 / 1 00000000000000000000000000000000000	the depth % 100 ion, RM≈Re	LRR: M needed to documer Rec Color (moist) C	nt the indicator or or lox Features % Type' % Type' with the indicator of the indicator % Type' % Type'	and Grains.	² Location: I dicators for Prol Coast Prairie R Iron-Manganes Other (Explain	Remarks Remarks PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks)	
SOIL Profile Dest Depth (Inches) 0-12 'Type: C=C Hydric Sol Histos Histo	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 00000000000000000000000000000000000	the depth % 100	LRR: M needed to documer Rer Color (moist) C	nt the indicator or of to Features % Type' % Type' % % % % % % % % % % % % %	and Grains.	² Location: I dicators for Prol Coast Prairie R Iron-Manganes Other (Explain	Remarks Remarks PL=Pore Lining, M=Matrix blematic Hydric Soils ^{>} : Redox (A16) re Masses (F12) in Remarks)	
SOIL Profile Des Depth (Inches) 0-12 'Type: C=C Hydric Soi Histos Deplet Com	Activition: (Describe to Matrix Color (moist) 10YR 3 / 1 10YR 3 / 1 Concentration, D=Depleti Indicators: DI (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) fuck (A10) ed Below Dark Surface (the depth % 100 ion, RM≈Re	LRR: M needed to documer Color (moist) Color	the indicator or or box Features % Type' % versed or Coated Sa watrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F3) rix (F3) surface (F6)	and Grains.	² Location: I ficators for Prol Coast Prairie R Iron-Manganes Other (Explain	PL=Pore Lining, M=Matrix Dematic Hydric Soils ³ : Redox (A16) re Masses (F12) in Remarks)	
SOIL Profile Des Depth (Inches) 0-12 'Type: C=C Hydric Soi Histics Histics Black I Histics Histics Stratific Stratific C cm Thick I Stratific	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 10YR 3 / 1	the depth % 100 ion, RM≈Re (A11)	LRR: M needed to documer Rec Color (moist) C	at the indicator or or to Features % Type' % Type' with the indicator or or years % Type' % Typ	and Grains.	² Location: I dicators of hydro wetland bydrolog	PL=Pore Lining, M=Matrix PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) the Masses (F12) in Remarks) phytic vegetation and the must be present	
SOIL Profile Dest Depth (Inches) 0-12 'Type: C=C Hydric Soi Histosc Histosc Histosc Histosc Histosc Stratific Stratific C C m M Deplet Stratific Sandy S cm M	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 10YR 3 / 1	the depth % 100 ion, RM≈Re	LRR: M needed to documer Rec Color (moist) C	t the indicator or of to Features % Type' % Type' % % % % % % % % % % % % %	and Grains.	² Location: I ² Location: I ² Location: I Coast Prairie R Iron-Manganes Other (Explain dicators of hydro wetland hydrolog	PL=Pore Lining, M=Matrix blematic Hydric Soils ^{>} : Redox (A16) in Remarks)	
SOIL Profile Des Depth (Inches) 0-12 'Type: C=C Hydric Soi Histos Histos Histos Black I Black I Hydrog Stratific Stratif Stratific Stratific Stratific Stratific Stratific Stra	A construction con	the depth % 100 ion, RM≈Re (A11)	LRR: M needed to documer Rer Color (moist) C	At the indicator or of a Features % Type' % Type' % % % % % % % % % % % % %	and Grains.	² Location: I ² Location: I ² Location: I Coast Prairie R Iron-Manganes Other (Explain dicators of hydro wetland hydrolog	Remarks Remarks PL=Pore Lining, M=Matrix blematic Hydric Soils ⁵ : Redox (A16) is Masses (F12) in Remarks)	
SOIL Profile Des Depth (Inches) 0-12 0-12 0-12 0-12 0-12 0-12 0-12 0-12	Color (moist) 10YR 3 / 1 10YR 3 / 1 10YR 3 / 1 Color (moist) 10YR 3 / 1 Color (moist) 10YR 3 / 1 Color (moist) 10YR 3 / 1 Color (moist) Color (mo	the depth % 100 ion, RM≈Re (A11)	LRR: M needed to documer Reg Color (moist) C	At the indicator or of to Features % Type' % Type' % % % % % % % % % % % % %	and Grains.	² Location: I dicators for Prol Coast Prairie R Iron-Manganes Other (Explain dicators of hydro wetland hydrolog	PL=Pore Lining, M=Matrix PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : kedox (A16) te Masses (F12) in Remarks) phytic vegetation and gy must be present.	
SOIL Profile Deet Depth (Inches) 0-12 'Type: C=C Hydric Soi Histos Histos Histos Histos Histos Histos Histos Histos Histos Stratific Sandy Stratific Sandy Scm M Restrictive Type: Depth: (Basedon	Activities and the second seco	the depth % 100 ion, RM≈Re (A11)	LRR: M needed to documer Rec Color (moist) C	At the indicator or or or the seatures with the indicator or or or the seatures with	and Grains.	2Location: I dicators for Prol Coast Prairie R Iron-Manganes Other (Explain dicators of hydro wetland hydrolog dric Soil Present I pit dug?	PL=Pore Lining, M=Matrix PL=Pore Lining, M=Matrix Dematic Hydric Soils ³ : Redox (A16) the Masses (F12) in Remarks) PL=Pore Lining, M=Matrix Sector Solids PL=Pore Lining, M=Matrix Solids PL=Pore Lining, M=Matrix Solids PL=Pore Lining, M=Matrix Solids Solid	
SOIL Profile Des Depth (Inches) 0-12 'Type: C=C Hydric Soi Histosc Histosc Histosc Histosc Hydrog Stratific 2 cm M Deplett Thick I Sandy 5 cm M Restrictive Type: Depth: (Remarks:	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 10YR 3 / 1	the depth % 100 ion, RM≈Re (A11)	LRR: M needed to documer Rec Color (moist) C	At the indicator or or or conservations for the indicator or or conservations of the indicator of the indica	and Grains.	² Location: I ² Loc	PL=Pore Lining, M=Matrix PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) phytic vegetation and gy must be present. M? Yes 1" Probe	
SOIL Profile Des Depth (Inches) 0-12 'Type: C=C Hydric Soi Histos Histos Histos Histos Histos Histos Histos Stratific Remarks:	scription: (Describe to Matrix Color (moist) 10YR 3 / 1 10YR 3 / 1 5000000000000000000000000000000000000	the depth % 100 ion, RM≈Re (A11)	LRR: M needed to documer Rer Color (moist) C	At the indicator or o	and Grains.	2Location: I 2Location: I 2Location: I 2Location: I Coast Prairie R Iron-Manganes Other (Explain dicators of hydro wetland hydrolog dric Soil Presen I pit dug? yes select one):	Remarks Remarks Remarks PL=Pore Lining, M=Matrix PL=Pore Lining, M=	

		PAGE 2
		Sampling Date: 10/13/11
		Sampling Point: SP45
HYDROLOGY		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required	<u>: check all that apply)</u>	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)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B2)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)
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 Depth (Ir	nches): 12"	
Water Table Present? Yes Depth (In	nches): Surface	
Saturation Present? Yes Depth (Ir (includes capillary fringe)	ches): Surface Wetland Hydrology P	resent? Yes
 Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Remarks: Four primary and one secondary ind 	cator of wetland hydrology are present.	



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #45 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	FACW	Herb	35	35%	Yes
Echinochloa muricata	FACW+	Herb	30	30%	Yes
Leersia oryzoides	OBL	Herb	10	10%	
Schoenoplectus tabernaemontani	OBL	Herb	5	5%	
Lemna minor	OBL	Herb	5	5%	
Bidens cernua	OBL	Herb	15	15%	
		Herb			
		TDM=	100		
		Shrub/Sap			
		TDM=	0		
		Tree			
		TDM=	0		
		Vine			
		том≠	0		

		وسادر والمحادثين						
Project/Si	te: EVP010 Phase II			City/Cou	inty: Chan	npaign C	o. Sampling) Date: 10/17/11
Applicant	Owner: Everpower			State: O	н		Sampling	y Point: SP46
Investigator(s): BMF Section, Township, Range: :								
Landform	(hillslope, terrace, etc.):	· · · · · ·		La	cal relief (concave	convex, none): C	ONCAVE
Slope (%):	0-2 Lat: 40.14	753	Long: 83.62	0391 ်	ł	Datum: V	VGS 1984	
Soil Map L	Jnit Name: Brookston sil	ity clay loam	I			N	Wi classification: F	PEM1C
Are climati	c/hydrologic conditions c	on the site ty	pical for this time of y	year? Ye	s (ifno, e	xplain in	Remarks.)	
Are Veget	ation 🔲, Soil 🛄, or Hyd	drology 🗌	significantly disturbe	d? Are "N	ormal Circ	umstanc	es" present? Ye	5
Are Veget	ation 🔲, Soil 🔲, or Hyd	dirology 🗋 r	naturally problematic	? (If neede	ed, explain	any ansi	vers in Remarks).	No
	RY FINDINGS – Attac	h site ma	p showing sampli	ng point	location	s, trans	ects, important	features, etc.
Hydrophyt	ic Vegetation Present?	Yes		is th	e Sampleo	d Area		
Hydric Soi	Present?	Yes		with	in a Wetla	nd?	Yes	
Wetland H	vdrology Present?	Vee						
Wengin L	ydiology Fresenti	163						
Remarks:	In a pasture, low spot, co	oncave surfa	ace, isolated; Wetland	d W, 6 flag	s			
VEGETA	TION	(US	FWS Region No.	1 - North	east Sub	-Regio	n)	
l	See atta	ched sheet	for listing of plant s	species an	d identific	cation of	dominant veget	ation
Percent of	Dominant Species that a	are OBL, FA	CW or FAC: (excludi	ing FAC-) =	= 3/4 = 75	%		
FAC Neutr	ral Test: 3 > 1 = Pass							
Prevalence	e Index =							
Remarks:	Hydrophytic plant comm	unity is pres	ent					
SOli			I RR· M		— w :			
Profile De	scription: (Describe to	the depth	needed to documen	t the indic	ator or co	onfirm th	e absence of ind	icators.)
Depth	Matrix		Red	iox Feature	es .			
0-12	2 5Y3 / 1	100	Color (moist)	70	rype [,]	· LOC-	silt loam	Kemarks
<u> </u>		†		1	 			
	·	<u> </u>		<u></u>	<u> </u>	ļ		
			<u> </u>	+		<u> </u>	- <u> </u>	
				1	+			
'Type: C=C Hydric Soi	Concentration, D=Deplet	lon, RM=Re	duced Matrix, CS=Co	overed or (Coated Sar	nd Grain:	s. ² Location Indicators for Pr	: PL=Pore Lining, M=Matrix roblematic Hydric Solls ^{>} :
	01 (A1) Foinedon (A2)		Sandy Gleyed	Matrix (54 (85)	l)			B RECIOX (A16) ese Masses (F12)
Black I	Histic (A3)		Stripped Matri	(S6) x (S6)			Other (Expla	in in Remarks)
Hydrog	ren Sulfide (A4)		Loamy Mucky	Mineral (F	1)		•••	·
	ed Layers (A5)		Loamy Gleyed	Matrix (F3	3)			
Denlet	auck (ATU) ed Below Dark Surface ((A11)	Redox Dark St	ix (F3) urface (F6)				
Thick I	Dark Surface (A12)		Depleted Dark	Surface (I	=7)		³ Indicators of hyd	rophytic vegetation and
🔲 Sandy	Mucky Mineral (S1)		Redox Depres	sions (F8)			wetland hydro	logy must be present.
L 5 cm №	Aucky Peat or Peat (\$3)							
Type:	: Layer (n ooserved);					1	Hydric Soil Pres	ent? Yes
Depth: (inches):						Soil pit dug?	Yes
Remarks:	Hydric soil is present						(if yes select one	e): 1" Probe
l						1		
			- -					

HULL & ASSOCIATES, INC. DUBLIN, OHIO OCTOBER 2007 1000.300 .

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		Sampling Date: 10/17/11 Sampling Point: SP46
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is requ	<u>lired: check all that apply)</u>	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)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B2)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	🔀 FAC-Neutral Test (D5)
Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)
Inundation Visible on Aerial Imagery (B	7) 🔲 Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8) Dther (Explain in Remarks)	
Field Observations:		
Surface Water Present? No Dept	th (Inches):	
Water Table Present? No Dept	íh (Inches):	
Saturation Present? No Depi (includes capillary fringe)	h (Inches): Wetland Hydrology P	resent? Yes
Recorded Data (Describe in Rema	rks):	,
☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other		· .
No Recorded Data		
Remarks: Three secondary hydrologic indic	cators are present	· · · · · · · · · · · · · · · · · · ·

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #46 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

SPECIES	INDICATOR	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Eleocharis obtusa	OBL	Herb	15	25%	Yes
Bidens cemua	OBL	Herb	15	25%	Yes
Polygonum hydropiperoides	OBL	Herb	15	25%	Yes
Echinochloa crusgalli	FACU	Herb	15	25%	Yes
		Herb			
		TDM≃	60		
		Shrub/Sap			
	<u> </u>	Shrub/Sap			
		Shrub/Sap			
•		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tres	·		
		Tree			
· · ·		Tree			
		Tree			
	•	TDM=	0		
		Vine			
		TDM=	0		

Project/Sit	te: EVP010 Phase II			Citv/Cou	unty: Chan	ipaign Co	Sal	mpling D	ate: 10/20/11
Applicant	blicant/Owner: Evenower State: OH Sampling Point: SP57								
Investigat	nvestigator(s): BMF Section, Township, Range: :								
Slope (%)	$\mathbf{n}_2 \qquad \qquad Lat: 40.04$	58687	Long: 83.6	24228		Datum: \	NGS 1984	no,	и.
Soil Man L	oit Name: Brookston si	ity day loan	Lung. 00.0	27220		I NV	VI classific:	ation: Nor	ne
Are climati	c/hydrologic canditions (on the site f	 voical for this time of v	vear? Ye	s (lfno.e	xolain in i	Remarks.)		
Are Vegeta	ation II. Soil II. or Hv	drology 🗖	significantly disturbe	rl? Are "N	ormal Circ	umstance	s" oresent'	? Yes	
Are Vegete	ation 🔲, Soil 🗍, or Hy	drology	naturally problematic	7 (if needs	d. explain	anv answ	ers in Rem	narks).No	,
SUMMAR	Y FINDINGS - Attac	h site ma	p showing sampli	ng point	location	s, transe	ects, impo	ortant fe	eatures, etc.
Hydrophyti	ic Vegetation Present?	Yes		ls th	e Sampleo	í Area			······································
Hydric Soil	Present?	Vec		with	in a Wetla	 nd? `	Ves		
		163			in a 1160a		103		•
vveuano H	ydrology Present?	res							
Remarks: \	Wetland FF, adjacent, 2	2 flags		<u></u> 8					
			·····						
VEGETAT	rion	(U:	SFWS Region No.	1 - North	east Sub	-Regior	ı)		······
	See atta	ched sheet	t for listing of plant s	species an	d identific	ation of	dominant	vegetatic	on
Percent of	Dominant Species that	are OBL, F/	ACW or FAC: (excludi	ing FAC-) :	= 2/2 = 100	%			
FAC Neutr	al Test: 1 > 0 = Pass								
Prevalence	a index =		· .						
Remarks: Hydronhytic plant community is present									
Kemarks; /	rydropriyde plant oonun	unity is pres	Sein						and the second
SOIL	Haropitte plant contain	unity is pres	LRR: M	<u> </u>			<u></u>	<u></u>	
SOIL Profile Des	scription: (Describe to	the depth	LRR: M	it the indic	ator or co	onfirm the	absence	of indica	itors.)
SOIL Profile Des Depth (Inches)	scription: (Describe to Matrix	the depth	LRR: M needed to documen Rec	it the indic	ator or co	enfirm the	absence	of indica	itors.)
SOIL Profile Des Depth (Inches) 0-6	scription: (Describe to Matrix Color (moist) 2,5Y3 / 1	the depth % 100	LRR: M needed to documen Color (moist)	it the indicion Feature	ator or co s Type!	enfirm the	e absence Texture silty cla	of indica	ators.) Remarks
SOIL Profile Des Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y3 / 1 3 / 1	the depth % 100 90	LRR: M needed to documen Color (moist) 10YR 5/6	it the indicion feature box Feature %	ator or co ss Type'	nfirm the	absence Texture silty cla	of indica	Remarks Matrix color: 5Y 3/1;
SOIL Profile Des Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y3 / 1 3 / 1	the depth % 100 90	LRR: M needed to documen Rec Color (moist)	t the indic lox Feature %	ator or co as Type!	nfirm the	e absence Texture silty cla	of indica	Remarks Remarks Matrix color: 5Y 3/1; damp
Profile Dest Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y3 / 1 3 / 1	the depth % 100 90	LRR: M needed to documen Color (maist) 10YR 5/6	t the indic lox Feature % 10	ator or co ss Type!	Loc ²	absence Texture silty cla	of indica	ators.) Remarks Matrix color: 5Y 3/1; damp
Profile Dest Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y3 / 1 3 / 1	the depth % 100 90	LRR: M needed to documen Color (moist)	at the Indicion Feature %	ator or co 35 Type'	Loc ²	e absence Texture silty cla silty cla	of indica	Remarks Remarks Matrix color: 5Y 3/1; damp
SOIL Profile Dest Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y3 / 1 3 / 1	the depth % 100 90	LRR: M needed to documen Rec Color (moist)	t the indicion Feature No. 10	ator or co ss Type!	Loc ²	e absence Texture silty cla silty cla	of indica	Remarks Matrix color: 5Y 3/1; damp
Profile Dest Depth (Inches) 0-6 6-12	scription: (Describe to Matrix Color (moist) 2.5Y3 / 1 3 / 1 	the depth % 100 90 ion, RM=Re	LRR: M needed to documen Color (moist) 10YR 5 / 6	t the indicion Feature ion Feature 10	ator or co 35 Type!	nfirm the	absence Texture silty cla silty cla	of indica y y y	ators.) Remarks Matrix color: 5Y 3/1; damp L=Pore Lining, M≃Matrix
Profile Des Depth (Inches) 0-6 6-12 	scription: (Describe to Matrix Color (moist) 2.5Y3 / 1 3 / 1 3 / 1 0 ncentration, D=Deplet Indicators: ol (A1) Epipedon (A2) fistic (A3) een Sulfide (A4) ad Layers (A5) luck (A10) ad Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) lucky Peat or Peat (S3) Layer (if observed): inches):	inn, RM=Re	LRR: M needed to documen Rec Color (moist) 10YR 5 / 6 10YR 5 / 6 Color (moist) 10YR 5 / 6 Color	tt the indic iox Feature % 10 10 overed or (Matrix (S4 (S5) X (S6) Mineral (F3) ix (F3) urface (F6) Surface (F8)	2ator or co 25 Type! Coated Sar 1) 5) 7)	nfirm the	absence Texture silty cla silty cla silty cla silty cla classified silty cla silty cla si silty cla silty cla silty cla	of indica y y y pocation: F for Prob Prairie R langanesi (Explain i k of hydroj l hydrolog l hydrolog l Present g?	Remarks Matrix color: 5Y 3/1; damp PL=Pore Lining, M≃Matrix blematic Hydric Solls ³ : adox (A16) e Masses (F12) in Remarks) phytic vegetation and py must be present. t? Yes Yes 1* Probe

HULL & ASSOCIATES, INC. DUBLIN, OHIO

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			PAGE 2
			Sampling Date: 10/20/11
			Sampling Point: SP57
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 (89)	Surface Soll 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 (B2)		Presence of Reduced Iron (C4)	Geomorphic Position (D2)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6	FAC-Neutral Test (D5)
🔲 Iron Deposits (B5)		Thin Muck Surface (C7)	Other (Explain In Remarks)
Inundation Visible on Aerial Ima	gery (B7)	Gauge or Well Data (D9)	
Sparsely Vegetated Concave St	urface (B8)	Other (Explain in Remarks)	· · ·
Field Observations:			
Surface Water Present? No	Depth (In	ches):	
Water Table Present? No	Depth (In	ches):	
Saturation Present? No (Includes capillary fringe)	Depth (In	ches): Wetland Hydrolo	gy Present? Yes
Recorded Data (Describe in	Remarks):		
Stream, Lake, or Tide Ga Aerial Photographs Other	uge		· · · · · ·
No Recorded Data			
Remarks: Two secondary Indicators	of hydrolog	y are present.	

HULL & ASSOCIATES, INC. DUBLIN, OHIO OCTOBER 2007 1000.300 Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #57 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

SPECIES		STRATUM		% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	100	100%	Yes
		Herb			
		Herb			<u> </u>
		Herb			
		TDM≈	100		
Populus deltoides	FAC	Shrub/Sap	5	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			·
- · ·		Shrub/San		·····	
		Shruh/San			
<u></u>		Shrub/Sap			
•		Shoub/Sap			
		Shrub/Sap			
	· · · · ·	Shub/Sap_			
•		Shrub/Sap	5		
		FDIM-	3	-	
<u> </u>		Iree			····
· · · · · · · · · · · · · · · · ·		- iree			
		Tree			·
		Tree			
		TDM=	0		
		Vine			
		TDM≓	0		

Project/Sit	e: EVP010 Phase I			City/Cou	nty: Cham	ipaign C	o. Samp	bling Date: 10/20/11
Applicant/	Owner: Everpower			State: OH Sampling Point: SP58				
Investigate	Investigator(s): BMF Section, Township, Range: :							
Landform (i Slope (%):2 Soil Map U Are climatic Are Vegeta Are Vegeta	hillslope, terrace, etc.): 2-6 Lat: 40.06 nit Name: Brookston sill c/hydrologic conditions o tion [], Soil [], or Hyd tion [], Soil [], or Hyd	963 ty clay loarn n the site ty Irology 🔲 n Irology 🔲 n	Long: 83.62 pical for this time of y significantly disturbe aturally problematic	9194 year? Yea ad? Are "Na ? (If neede	cal relief (o E s (If no, e ormal Circu d, explain a	concave Datum: V N xplain in umstanc any ans	, convex, none VGS 1984 WI classificatio Remarks.) es" present? wers in Remar	a): on: None Yes ks).No
	Y FINDINGS – Attac	h site map	showing sampli	ng point	locations	s, trans	ects, impor	tant features, etc.
Hydrophyti	c Vegetation Present?	Yes		Is th	e Samplec	l Area		
Hydric Soil	Present?	Yes		with	in a Wetlar	n d?	Yes	
Wetland H	ydrology Present?	Yes						
Remarks: I	inear wetland ditch; We.	tland GG, 2	5 flagsHydrophytic p	lant commi	unity is pre	sent		
VEGETA		(US	FWS Region No.	<u>1 - North</u>	east Sub	-Regio	n)	<u> </u>
	See atta	ched sheet	for listing of plant	species an	d identific	ation o	f dominant ve	getation
Percent of	Dominant Species that a	are OBL, FA	CW or FAC: (exclud	ing FAC-) =	= 3/3 = 100) %		
FAC Neutr	al Test: 3 > 0 = Pass							
Prevalence	e Index =							
Remarks:	<u></u>	·····						
SOIL Profile Des	crintion: (Describe to	the denth i	LRR: M	t the indic	ator or co	nfirm th	e absence of	indicators)
Depth	Matrix		Rec	lox Feature	S	<u></u>		
(Inches) 0-12	Color (moist) 4 / 1	% 100	Color (moist)	%	Type'	Loc ²	Texture silt loam	Remarks Matrix color: 5Y 4/1;
				_				
• ••••••••••••••••••••••••••••••••••••								
Image: Carconcentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Matrix (F3)						ation: PL=Pore Lining, M=Matrix or Problematic Hydric Soils³: rairie Redox (A16) nganese Masses (F12) xplain in Remarks)		
Deplet Thick [Sandy 5 cm N	Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3)		Redox Dark S Depleted Dark Redox Depres	ssions (F8)	-7)		³ Indicators o wetland h	f hydrophytic vegetation and ydrology must be present.
Restrictive Type: Depth: (Remarks:	Layer (if observed): inches): Hydric soil is present						Hydric Soil I Soil pit dugʻ (if yes selec	Present? Yes ? Yes t one): 1" Probe

	· · · · · · · · · · · · · · · · · · ·	PAGE 2		
		Sampling Date: 10/20/11		
		Sampung Point: SP30		
HYDROLOGY Watland 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)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B2)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	AC-Neutral Test (D5)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)		
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? No Depth (in	ches):			
Water Table Present? No Depth (In	ches):			
Saturation Present? Yes Depth (In (includes capillary fringe)	ches): surface Wetland Hydrology Pi	resent? Yes		
Recorded Data (Describe in Remarks):	· · · · ·			
☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other				
🖾 No Recorded Data				
Remarks: One primary and two secondary indic	ators of wetland hydrology are present.			



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #58 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	90	90%	Yes
Carex frankii	OBL	Herb	10	10%	
		Herb			
		TDM=	100		
Salix nigra	FACW+	Shrub/Sap	20	50%	Yes
Salix exigu a	OBL	Shrub/Sap	20	50%	Yes
		Shrub/Sap	······		
		Shrub/Sap			
		TDM=	40		
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
	<u> </u>	Vine			
		TDM=	0		

Project/Sit	te: EVP010 Phase I			City/Cou	nty: Chan	npaign Co). Sampli	ng Date: 12/13/11	
Applicant/	Applicant/Owner: Everpower State: OH Sampling Point: SP62								
Investigat	or(s): BMF/KMH			Section,	Township	o, Range			
Landform (Slope (%): Soil Map U	Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%):2-6 Lat: 40.14236 Long: 83.90422 Datum: WGS 1984 Soil Map Unit Name: Miami silt loam NWI classification: PEM1A								
Are climati	c/hydrologic conditions o	n the site t	ypical for this time of	year? Ye	s (lfno,e	explain in	Remarks.)		
Are Vegeta	ation 🔲, Soil 🛄, or Hyd	trology 🗌	significantly disturbe	ed? Are "N	ormal Circ	umstance	es" present?	Yes	
Are Vegeta	ation 🔲, Soil 🛄, or Hyd	drology 🗌	naturally problematic	? (If neede	d, explain	any ansv	ers in Remark	s).No	
SUMMAR	RY FINDINGS - Attac	h site ma	p showing sampl	ing point	location	s, trans	ects, importa	nt features, etc.	
Hydrophyti	ic Vegetation Present?	Yes		is the	e Sample	d Area			
Hydric Soi	I Present?	Yes		withi	n a Wetla	nd?	Yes		
Wetland H	ydrology Present?	Yes							
Remarks:	Wetland JJ, non-isolated	NWI erner	gent wetland, 12 flag	S					
VEGETA	TION	(U	SFWS Region No.	1 - North	east Sut	o-Regio	n)		
	See atta	ched shee	t for listing of plant	species an	d identifi	cation of	dominant veg	etation	
Percent of	Dominant Species that a	are OBL, Fr	ACW or FAC: (exclud	ling FAC-) =	= 5/5 = 100) %			
FAC Neutr	al Test: 3 > 0 = Pass								
Prevalence	e Index =								
Remarks:	Hydrophytic plant comm	unity is pre	sent						
Remarks: Hydrophytic plant community is present									
SOIL									
SOIL Profile Des	scription: (Describe to	the depth	LRR: M	nt the indic	ator or co	onfirm th	e absence of i	ndicators.)	
SOIL Profile Des Depth	scription: (Describe to	the depth	LRR: M needed to documen Red	nt the indic	ator or co	onfirm th	e absence of i	ndicators.)	
SOIL Profile Det Depth (Inches) 0-1	scription: (Describe to Matrix Color (moist)	the depth % 100	LRR: M needed to documen Rea Color (moist)	nt the India dox Feature %	ator or co s Type'	Loc ²	e absence of i Texture organic	ndicators.) Remarks	
SOIL Profile Det Depth (Inches) 0-1 1-10	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1	the depth % 100 90	LRR: M needed to documen Rea Color (moist) 7.5YR 5/6	nt the Indic dox Feature % 10	ator or co s Type ¹ C	EDD	e absence of i Texture organic silty clay	ndicators.) Remarks saturated	
SOIL Profile Dep Depth (Inches) 0-1 1-10	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1	the depth % 100 90	LRR: M needed to docume Color (moist) 7.5YR 5 / 6	nt the India dox Feature % 10	ator or co s Type' C	EDITION CONTRACT OF CONTRACTO OF CONTRACT.	e absence of i Texture organic silty clay	ndicators.) Remarks saturated	
SOIL Profile Det Depth (Inches) 0-1 1-10	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1	the depth % 100 90	LRR: M needed to documen Color (moist) 7.5YR 5 / 6	nt the India dox Feature % 10	ator or co is Type' C	Expression for the second seco	e absence of i Texture organic silty clay	ndicators.) Remarks saturated	
SOIL Profile De: Depth (Inches) 0-1 1-10	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1	the depth % 100 90	LRR: M needed to docume Rec Color (moist) 7.5YR 5/6	nt the Indic dox Feature % 10	ator or co s Type' C	Example 1	e absence of i Texture organic silty clay	ndicators.) Remarks saturated	
SOIL Profile Deeth (Inches) 0-1 1-10	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1	the depth % 100 90	LRR: M needed to docume Color (moist) 7.5YR 5 / 6	nt the Indic dox Feature % 10	ator or co PS Type' C	M	e absence of i Texture organic silty clay	ndicators.) Remarks saturated	
SOIL Profile Det Depth (Inches) 0-1 1-10 'Type: C=0 Hydric Soi Histics Histics Histics Histics Histics Histics Histics Histics CHistifi 2 cm N	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 Concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Auck (A10)	the depth % 100 90 ion, RM=R	LRR: M needed to documen Rec Color (moist) 7.5YR 5 / 6 7.5YR 5 / 6 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matri	the Indic dox Feature % 10 10 covered or (d Matrix (S4 (S5) ix (S6) y Mineral (F d Matrix (F3)	ator or co S Type' C C C C C C C C C C C C C	nfirm th	e absence of i Texture organic silty clay s. ^a Locat Indicators for Coast Pra Iron-Mang Other (Ex	ion: PL=Pore Lining, M=Matrix Problematic Hydric Soils ⁵ : irie Redox (A16) plain in Remarks)	
SOIL Profile Dee Depth (Inches) 0-1 1-10 'Type: C=0 Hydric Soi Histic I Black I Histic I Black I Hydrog Stratifi 2 cm N Deplet Thick I Sandy 5 cm V	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 2000 Concentration, D=Deplet Il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Auck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Aucky Peat or Peat (S3)	the depth % 100 90 	LRR: M needed to documen Rec Color (moist) 7.5YR 5 / 6 7.5YR 5 / 6 color (moist) color (moist) 7.5YR 5 / 6 color (moist) 7	nt the Indic dox Feature % 10 10 covered or (d Matrix (S4 (S5) ix (S6) y Mineral (F d Matrix (F3) Surface (F6) k Surface (F8)	ator or co S Type' C C C C C C C C C C C C C	nfirm th	e absence of i Texture organic silty clay s. ² Locat Indicators for Coast Pra Other (Ex ³ Indicators of wetland hy	Indicators.}	
SOIL Profile Dee Oepth (Inches) 0-1 1-10 ' 'Type: C=0 Hydric Soi Histos	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 2 / 1 10YR 4 / 1 Concentration, D=Deplet I Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Auck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Aucky Peat or Peat (S3) e Layer (if observed): (inches):	the depth % 100 90 ion, RM=R (A11)	LRR: M needed to documen Rec Color (moist) 7.5YR 5 / 6	the Indic dox Feature % 10 10 Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F d Matrix (F3) Surface (F6) k Surface (F8)	Type' Type' C C Coated Sa	nfirm th	e absence of i Texture organic silty clay silty clay a class a	Remarks saturated saturated ion: PL=Pore Lining, M=Matrix Problematic Hydric Soils ⁻⁵ : irite Redox (A16) ganese Masses (F12) plain in Remarks) hydrophytic vegetation and drology must be present. resent? Yes Yes	
SOIL Profile Det Oepth (Inches) 0-1 1-10 'Type: C=0 Hydric Soi Histos Histos Histos Histos Stratifi 2 cm M Deplet Thick I Sandy 5 cm M Restrictive Type: Depth: (Remarks:	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 10YR 4 / 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	the depth % 100 90 	LRR: M needed to documen Rea Color (moist) 7.5YR 5 / 6 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleye Depleted Matri Redox Dark S Depleted Dar Redox Depres	the Indic dox Feature % 10 10 covered or (d Matrix (S4 (S5) ix (S6) y Mineral (F d Matrix (F3) Surface (F6) k Surface (F6) k Surface (F8)	ator or co S Type' C C C C C C C C C C C C C	nfirm th	e absence of i Texture organic silty clay s. ² Locat Indicators for Coast Pra Indicators of Other (Ex ³ Indicators of wetland hy Hydric Soil Pr Soil pit dug? (If yes select	ndicators.} Remarks saturated saturated saturated ion: PL=Pore Lining, M=Matrix Problematic Hydric Soils ⁵ : irife Redox (A16) janese Masses (F12) plain in Remarks) hydrophytic vegetation and drology must be present. resent? Yes Yes	

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		PAGE 2				
		Sampling Date: 12/13/11 Sampling Point: SP62				
Wetland Hydrology Indicators:	· · · · · · · · · · · · · · · · · · ·					
Primary Indicators (minimum of one is requ	<u>fred: check all that apply}</u>	Secondary Indicators (minimum of two required)				
Surface Water (A1)	X 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 (B2)	Presence of Reduced iron (C4)	Geomorphic Position (D2)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)				
Inundation Visible on Aerial Imagery (B	7) 🔲 Gauge or Well Data (D9)	Gauge or Well Data (D9)				
Sparsely Vegetated Concave Surface (B8) 🔲 Other (Explain in Remarks)					
Field Observations:						
Surface Water Present? Yes Dept	h (Inches): 3					
Water Table Present? No Dept	h (Inches):					
Saturation Present? Yes Dept (includes capillary fringe)	h (Inches): surface Wetland Hydrology F	Present? Yes				
Recorded Data (Describe in Remain	rks):					
Stream, Lake, or Tide Gauge						
Aerial Photographs						
No Recorded Data						
Remarks: Hydrology present - four primary	indicators and one secondary indicator	<u> </u>				



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Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #62 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Aster lateriflorus	FACW	Herb	20	95%	Yes
Cinna arundinacea	FACW+	Herb	1	5%	
		Herb			
		Herb			
		Herb			
		Herb	· · · · · · · · · · · · · · · · · · ·		
		Herb			
		TDM=	21		
Salix exigua	OBL	Shrub/Sap	50	100%	Yes
		Shrub/Sap			
		TDM=	50		
Fraxinus pennsylvanica	FACW	Tree	20	33%	Yes
Acer rubrum	FAC	Tree	20	33%	Yes
Populus deltoides	FAC	Tree	20	33%	Yes
		Tree			
		TDM=	60		
		Vine			
		TDM=	0		

	ite: EVP010 Phase I			City/Cou	unty: Chan	npaign Co	. Sampling	Date: 12/13/11
Applicant	/Owner: Everpower			State: O	н		Sampling	Point: SP63
Investigat	tor(s): BMF/KMH			Section,	Township	o, Range:	:	
Landform Slope (%): Soil Map L	(hillslope, terrace, etc.): :0-2 Lat: 40.14 Jnit Name: Brookston si	46375 ilty clay loar	Long: 83.5 n	58023	ocal relief (concave, Datum: W	convex, none): GS 1984 /I classification: F	FO1A, PSS1C
Are climati	ic/hydrologic conditions of	on the site f	typical for this time of	year? Ye	es (lfno,e	explain in l	Remarks.)	
Are Veget	ation 🔲, Soil 🛄, or Hy	drology 🗌	significantly disturbe	ed? Are "N	lormal Circ	umstance	s" present? Ye	s
Are Veget	ation 🔲, Soil 🔲, or Hy	drology 🗌	naturally problematic	? (If neede	ed, explain	any aлsw	ers in Remarks).	No
SUMMAR	RY FINDINGS – Attac	ch site ma	ap showing sampli	ing point	location	s, transe	cts, important	features, etc.
Hydrophyt	tic Vegetation Present?	Yes		ls th	e Sample	d Area		
Hydric Soi	il Present?	Yes		with	in a Wetla	nd? `	res	
Wetland H	lydrology Present?	Yes						
Remarks:	Wetland KK, forrested N	IWI wetland	i, non-isolated, 12 flag	js				· · · · · · · · · · · · · · · · · · ·
								·····
VEGETA	TION	<u>(U</u>	SFWS Region No.	. 1 - Nort h	neast Sub	-Region)	
	See atta	iched shee	t for listing of plant	species ar	nd identifi	cation of	dominant vegeta	ation
Percent of	Dominant Species that	are OBL, F	ACW or FAC: (exclud	ling FAC-)	= 7/7 = 100)%		
FAC Neut	ral Test: 6 >0 = Pass							
Prevalenc	e Index =							
Remarks:	Hydrophytic community	is present						
SOIL			LRR: M					
SOIL Profile De	scription: (Describe to	o the depth	LRR: M	nt the indi	cator or co	onfirm the	absence of ind	icators.)
SOIL Profile De Depth (Inches)	scription: (Describe to Matrix Color (moist)	o the depth	LRR: M needed to documer Color (moist)	nt the indi dox Featur	cator or co	onfirm the	absence of ind	icators.)
SOIL Profile De Depth (Inches) 0-1	scription: (Describe to Matrix Color (moist) 10YR 2 / 1	the depth % 100	LRR: M needed to documer Rec Color (moist)	nt the indi dox Featur %	cator or co es Type'	Enfirm the	absence of Ind Texture organic	icators.) Remarks Organic - A0
SOIL Profile De Depth (Inches) 0-1 1-4	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2	5 the depth % 100 80	LRR: M needed to documer Color (moist) 7.5YR 5/6	nt the indi dox Featur % 20	cator or co es Type' C	Defirm the	absence of Ind Texture organic silty clay	icators.) Remarks Organic - A0
SOIL Profile De Depth (Inches) 0-1 1-4 4-12	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2 2.5Y5 / 2	% 100 80 85	LRR: M needed to document Color (moist) 7.5YR 5/6 10YR 5/6	nt the Indi dox Featur % 20 15	cator or co es Type ¹ C C	Loc ²	absence of Ind Texture organic silty clay silty clay	icators.) Remarks Organic - A0 saturated
SOIL Profile De Depth (Inches) 0-1 1-4 4-12	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2 2.5Y5 / 2	% 100 80 85	LRR: M needed to documen Color (moist) 7.5YR 5/6 10YR 5/6	nt the indi dox Featur % 20 15	Cator or co es Type' C C	Difirm the	absence of Ind Texture organic silty clay silty clay	icators.) Remarks Organic - Á0 saturated
SOIL Profile De Depth (Inches) 0-1 1-4 4-12	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2 2.5Y5 / 2	the depth % 100 80 85	LRR: M needed to documer Color (moist) 7.5YR 5/6 10YR 5/6	nt the Indi dox Featur % 20 15	cator or co es Type ¹ C C	M M	absence of Ind Texture organic silty clay silty clay	icators.) Remarks Organic - A0 saturated
SOIL Profile De Depth (Inches) 0-1 1-4 4-12	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2 2.5Y5 / 2	the depth % 100 80 85	LRR: M needed to document Color (moist) 7.5YR 5/6 10YR 5/6	nt the India dox Featur % 20 15	Cator or co	Enfirm the	absence of Ind Texture organic silty clay silty clay	icators.) Remarks Organic - A0 saturated
SOIL Profile De Depth (Inches) 0-1 1-4 4-12 	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2 2.5Y5 / 2 2 2.5Y5 / 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	tion, RM=R	LRR: M needed to documen Color (moist) 7.5YR 5/6 10YR 5/6 10YR 5/6 Ceduced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matri Loamy Gleyed Depleted Matri Redox Dark S	nt the India dox Feature % 20 15 20 15 20 5 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Cator or co es C C C C C C C C C C C C C C C C C C	M M M	absence of Ind Texture organic silty clay silty clay 2Location Indicators for Pi Coast Prairie Iron-Mangan Other (Expla	icators.) Remarks Organic - A0 saturated : PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : e Redox (A16) ese Masses (F12) in in Remarks)
SOIL Profile De Depth (Inches) 0-1 1-4 4-12 Type: C=C Hydric So Histos Histos Histos Stratifi 2 cm M Deplet Thick Sandy 5 cm M	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2 2.5Y5 / 2 2.5Y5 / 2 2 2.5Y5 / 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	tion, RM=R	LRR: M needed to documen Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Color (moist) Color (moist) 7.5YR 5 / 6 Color	nt the indi dox Featur % 20 15 500 500 500 500 500 500 500 500 500	Coated Sa 4) F7)	nd Grains	absence of Ind Texture organic silty clay silty clay silty clay aLocation Indicators for Pr Coast Prairie Iron-Mangan Other (Expla sIndicators of hyd wetland hydro	icators.) Remarks Organic - A0 saturated : PL=Pore Lining, M=Matrix roblematic Hydric Solis ⁵ : Redox (A16) ese Masses (F12) in in Remarks) Brophytic vegetation and logy must be present.
SOIL Profile De Depth (Inches) 0-1 1-4 4-12 Type: C=C Hydric So Histos Histos Histos Stratifi 2 cm M Deplet Thick Sandy 5 cm N Restrictivy Type:	scription: (Describe to Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2 2.5Y5 / 2 2.5Y5 / 2 2 2.5Y5 / 2 2 2 2.5Y5 / 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	the depth % 100 80 85 tion, RM=R (A11)	LRR: M needed to documen Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Color (moist) Color (moist) 7.5YR 5 / 6 Color	nt the indi dox Featur % 20 15 500 500 500 500 500 500 500 500 500	Coated Sa 4) F7)	nd Grains	absence of Ind Texture organic silty clay silty clay silty clay aLocation Indicators for Pr Coast Prairie Iron-Mangan Other (Expla Sindicators of hydro Wetland hydro Hydric Soil Pres Soil pit dug?	icators.) Remarks Organic - A0 saturated EXAMPLE Pore Lining, M=Matrix roblematic Hydric Solis ⁵ : PL=Pore Lining, M=Matrix roblematic Hydric Solis ⁵ : Redox (A16) Rese Masses (F12) In in Remarks) Brophytic vegetation and Remarks) Brophytic vegetation and Remarks Brophytic Vegetation and Remarks Rem

		PAGE 2
·		Sampling Date: 12/13/11 Sampling Point: SP63
HYDROLOGY	····	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required	l: 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)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B2)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)
Algai Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	AC-Neutral Test (D5)
Iron Deposits (B5)	Thin Muck Surface (C7)	Other (Explain in Remarks)
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? No Depth (I	nches):	
Water Table Present? Yes Depth (I	nches): 7	
Saturation Present? Yes Depth (Includes capillary fringe)	nches): 7 Wetland Hydrology P	resent? Yes
Recorded Data (Describe in Remarks)	:	
☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other		
No Recorded Data		
Remarks: Hydrology is present - two primary in	dicators, one secondary indicator.	



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Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #63 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Agrostis stolonifera	FACW	Herb	60	60%	Yes
Cinna arundinacea	FACW+	Herb	5	5%	
Aster lateriflorus	FACW-	Herb	5	5%	
Glyceria striata	OBL	Herb	30	30%	Yes
		Herb			
		TDM=	100		
Fraxinus pennsylvanica	FACW	Shrub/Sap	10	23%	Yes
Cephalanthus occidentalis	OBL	Shrub/Sap	2	4%	
Sambucus canadensis	FACW-	Shrub/Sap	5	12%	
Cornus amomum	FACW	Shrub/Sap	10	23%	Yes
Carva laciniosa	FAC	Shrub/Sap	1	2%	
Toxicodendron radicans	FAC	Shrub/Sap	10	23%	Yes
Lindera benzoin	FACW-	Shrub/Sap	5	12%	
		Shrub/Sap			
		Shrub/Sap			
····		Shrub/Sap			
		TDM=	43		· · · · · · · · · · · · · · · · · · ·
Eraxinus pennsylvanica	FACW	Tree	30	67%	Yes
Quercus bicolor	EACW+	Tree	15	33%	Yes
		Tree			
		Tree			
		Tree	· · · · · · · · · · · · · · · · · · ·		
		Tree	· ·		
		Tree			
		Tree			·
		Tree			
		Trop	_ • • • · · · · ·		
		TDM=	15		
			40		
		vine			
		Vine			
		Vine			

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Project/Site	e: EVP010 Phase I			City/Cou	nty: Cham	npaign Co	. Sampling	Date: 12-14-11
Applicant/0	Owner: Everpower	ver State: OH Sampling Point: SP66						
Investigato	or(s): BMF	Section, Township, Range: :						
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%):2-6 Lat: 40.08738 Long: 83.603602 Datum: WGS 1984 Soil Map Unit Name: Miami silt loam NWI classification: PSS1C, PuB Gh Are climatic/hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation [], Soil [], or Hydrology [] significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation [], Soil [], or Hydrology [] naturally problematic? (If needed, explain any answers in Remarks).No								
SUMMAR	Y FINDINGS - Attac	<u>h site ma</u>	p showing sampli	ing point l	ocation	s, transe	cts, important	features, etc.
Hydrophytic Vegetation Present? Yes Is the Sampled Area Hydric Soil Present? Yes within a Wetland? Yes Wetland Hydrology Present? Yes								
Remarks: V	Vetland NN, non-isolate	d						
VEGETAT	ION	(ປະ	FWS Region No.	1 - North	east Sub	-Region)	
	See atta	ched sheet	for listing of plant	species an	d identific	cation of	dominant vegeta	ition
FAC Neutra Prevalence Remarks: H	al Test: 6 > 0 = Pass Index = Hydrophytic plant comm	unity is pres	sent					
SOIL			LRR: M		· · · ·			
Profile Des	cription: (Describe to	the depth	needed to documer	nt the indic	ator or co	onfirm the	absence of indi	icators.)
(Inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-12	10YR 4/2	90	10YR 5/8	10	<u>с</u>	M	silt loam	saturated
						1		
		 	<u> </u>					
		+	· · · · · · · · · · · · · · · · · · ·		•			
i				1				
'Type: C=Co Hydric Soil Histoso Histic E Black H Hydrog Stratifie 2 cm M Deplete	oncentration, D=Deplet I Indicators: of (A1) Epipedon (A2) Histic (A3) en Sulfide (A4) ed Layers (A5) Huck (A10) ed Below Dark Surface (ion, RM=Re A11)	educed Matrix, CS=C Sandy Gleyec Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyec Depleted Matri Redox Dark S	overed or C I Matrix (S4 (S5) ix (S6) Mineral (F' d Matrix (F3) Gurface (F6)	Coated Sar) 1)	nd Grains.		: PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : e Redox (A16) ese Masses (F12) in in Remarks)
'Type: C=Co Hydric Soil Histoso Histic E Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy 5 cm M	oncentration, D=Deplet I Indicators: of (A1) Epipedon (A2) Histic (A3) en Sulfide (A4) ad Layers (A5) huck (A10) ad Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Hucky Peat or Peat (S3)	ion, RM=Re A11)	cluced Matrix, CS=C Sandy Gleyec Sandy Redox Stripped Matr Loarny Mucky Loarny Gleyec Depleted Matr Redox Dark S Depleted Darf Redox Depres	overed or C (S5) ix (S6) Mineral (F' d Matrix (F3) fix (F3) Burface (F6) k Surface (F8)	Coated Sar) 1) -) -7)	nd Grains.		PL=Pore Lining, M=Matrix roblematic Hydric Soils ⁵ : a Redox (A16) ese Masses (F12) in in Remarks) drophytic vegetation and logy must be present.

	<u> </u>		PAGE 2
			Sampling Date: 12-14-11
HYDROLOGY Wetland Hydrology Indicators:	<u> </u>		
Primary Indicators (minimum of one	<u>is required:</u>	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)	Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B2)		Presence of Reduced Iron (C4)	Geomorphic Position (D2)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Iron Deposits (B5)		Thin Muck Surface (C7)	C Other (Explain in Remarks)
Inundation Visible on Aerial Imag	јегу (В7)	Gauge or Well Data (D9)	
Sparsely Vegetated Concave Su	rface (B8)	Other (Explain in Remarks)	
Field Observations:			
Surface Water Present? Yes	Depth (In	ches): 3	
Water Table Present? No	Depth (In	ches):	
Saturation Present? Yes (includes capillary fringe)	Depth (In	ches): surface Wetland Hydrology Pr	resent? Yes
Recorded Data (Describe in F	Remarks):		
☐ Stream, Lake, or Tide Gau ☐ Aerial Photographs ☐ Other	uge		
No Recorded Data			
Remarks: Hydrology is present by nu	umerous inc	dicators.	



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Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #66 Attachment to Routine Wetland Determination Data Form Hull & Associates, Inc.

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SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	OBL	Herb	25	25%	Yes
Aster lateriflorus	FACW-	Herb	25	25%	Yes
Polygonum lapathifolium	FACW+	Herb	25	25%	Yes
Carex stricta	OBL	Herb	25	25%	Yes
		Herb			
		TDM=	100		
Ulmus americana	FACW-	Shrub/Sap	10	24%	Yes
Salix nigra	FACW+	Shrub/Sap	2	5%	
Toxicodendron radicans	FAC	Shrub/Sap	30	71%	Yes
		Shrub/Sap			
		TDM=	42		
Salix nigra	FACW+	Tree	35		Yes
Populus deltoides	FAC	Tree	20	36%	Yes
		Tree			
		TDM=	55		
		Vine			
· · · · · · · · · · · · · · · · · · ·		Vine			
		Vine			
		Vine	<u>"</u>		
		T'DM=	0		

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WETLAND DETERMINATION DATA FORM - Midwest Region

with the second of the second of the second se		makin Danasa
resilgeron(s): N. HOAS NOU. M. PLOIN	<u></u>	visinp, range.
ndform (hillslope, terrace, etc.): <u>5000000</u>	Li	ocal fellet (concave, convex, note); COMCAVE
ope (%): Lai:	Long:	Dalum: WGS1904
il Map Unil Name: <u>Crosby silt loam</u>	<u>a- 6°/0 slope</u>	s Crop NWI classification:
e climatic / hydrologic conditions on the site typical for	this time of year? Yes <u>V</u>	No (If no, explain in Remarks.)
e Vegetation, Soil, or Hydrology		V Are "Normal Circumstances" present? Yes V. No
Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in Remarks.)
JMMARY OF FINDINGS - Attach site ma	o showing sampling	point locations, transects, important features, e
Wirmhidin Vanatation Present? Ves	No	
Notic Soil Present? Yes	No ls the	Sampled Area
Vetland Hydrology Present? Yes	No within	n e Wetland? Yes <u>V</u> No
emarks:	erain have h	PDA mart
all 5 wetland chit	and have b	CENT MET.
CETATION - Ose scientific fiames of plan	IS.	- Mantal Barran Trademakahan
ree Stratum (Plot size: 30)	% Cover Species?	Status
Sallix ninra	10 / 0	BL That Are OBL, FACW, or FAC: 3 (A)
<u> </u>		2
		Species Across All Strata; (B)
		That Are OBL FACW or FAC'
	= Total Cove	r
apling/Shrub Stratum (Plot size: 1)		Prevalence Index worksheet:
Sallix nigra	<u> </u>	DIDL Total % Cover of: Multiply by:
·		
'		
	16	
erb Stratum (Piol size: 5	<u> </u>	Column Totale: (A)
Feilobium coloratum	10	0BL
Apocynum cannabinum	5	FAC Prevalence Index = B/A =
X'an throm stromanium	5	For Hydrophytic Vegetation Indicators:
Tupha angustifolia	~ 100	BL 1 - Rapid Test for Hydrophytic Vegetation
Scirpus cuperinus	15	D.B.L 2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0 ¹
		4 - Morphological Adaptations ¹ (Provide supportin
and the second		data in Kernarks or on a separate sneet)
)		
	45 = Total Cover	be present, unless disturbed or problematic.
AND		
oody Vine Stratum (Plot size: 301)		i Hydrophytic
oody Vine Stratum (Plot size: 301)		Vecetation
oodv Vine Stratum (Plot size: <u>301</u>)		Vegetation Present? Yes No No

US Army Corps of Engineers

Midwest Region - Version 2.0

Martin Martin	مربعه مر مربعه مربعه مرب		ישטעע ען עשטעען	HAIR CHA		•••••	in the append	* ********			
Ceptin (inches)	Color (moist)	%	Color (moist)	x reature %	Tvoe ¹	Loc	Texture		Re	marks	
<u><u> </u></u>	INYA 3/0	100		~~~				. etas			
	IUIN J/J	. 100	INVO 6 10	·	~	NA.	<u> </u>) <u>cray</u>			10 ¹⁰¹
2-10	101K 2/2	<u>90</u>	10114 4795	10	<u> </u>			·			
10-20	10YR SVI	<u>40</u>	IDYR 9/8	10	<u> </u>	<u>M</u>	یمانک ا	• •			
				•,		******	÷				
<u></u>			<u></u>			. <u> </u>					
·	······································		· · · · · · · · · · · · · · · · · · ·		·						······
Type: G=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, MS	3=Maske	d Sand Gi	ains.	² Locatio	n: PL≍Po	re Lining, Iamatic I	M=Matrix.	- ³ .
Historol	(Δ1)		Snody (2 Avad 14	Ariv (SA)		Choe	t Preiria R	aday (A1f	, j anie 201 3)	
Flistosor Histia En	(A)) ioedon (A?)		Sanuy C	Sleyed Mi Derley IS4	aanx (34) 5)		Oark	Sorface iS	בטייא עיזיי דיי	3)	
Black Hit	fic (A3)		Stringer	Matrix //	77 281		Linon-J	Jannanes	« j Mastas	(F12)	
Hydrone	a Sulfide (A4)		i namy l	Minelay Mii	neral (F1)		Verv	Shallow D	ark Surfa	10 /TF12)	
Stratilied	Lavers (A5)		t namy f	Sleved M	atrix (F7)		Other	(Explain i	n Remark		
2 cm Mu	x (A10)		Deplete	d Matrix (ыл (г2) F3)			Freehout I			
Depleted	Below Dark Surfac	e (A11)	Redox D	Jark Surfa	ace (F6)						
Thick Da	rk Surface (A12)		Deplete	d Dark Su	idace (F7)	³ Indicator	s of hydro	phytic veg	jetation and	ł
Sandy M	ucky Mineral (S1)		Redox I	Depressio	ns (F8)		wetla	nd hydrolo	gy must b	e present,	
5 cm Mu	ky Peat or Peat (S	3)	·				unles	s disturbed	i or proble	emalic.	
Restrictive L	ayer (if observed):									1	
Туре:							Lundada e -	t Diana a at a	, v	/	-
Depth (Inc	hes):						anyane Sol	i Lieseljį	195	<u>v N</u>	°
temarks: F	iydric s	SDil (criterion	has	s be	en n	net.				
YDROLOC	ydric s	5011	criterion	has	s be	en n	net.	· ·			
YDROLOC YDROLOC Vetland Hyd	ydric S SY rology Indicators:		red: check all that an	has	s be	en n	net.	ary indical	lors (minit	mum of two	required
YDROLOC YDROLOC Vetland Hyd Surfare 1	ydric S BY rology Indicators: ators (minimum of o	ne is requi	red: check all that ap	has piv)	5 be	en n	second	ary Indicat	lors (minin	mum of two	required)
YDROLOC YDROLOC Vetland Hyd Primery Indice Surface 1 Herb Wet	aydric S BY rology Indicators: ators (minimum of o Vater (A1) er Table (A2)	SO i ((red: check all that ap Water-Stat	Div)	65 be	en n		arv Indicel face Soil (lors (mini Cracks (B Jerns (B1)	mum of two 6)	reguired)
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YDROLOC YDROLOC Vetland Hyd Primery Indica Saturation High Wat Saturation Water Me Sediment	BY rology Indicators: ators (minimum of of Vater (A1) er Table (A2) n (A3) atts (B1) Deposits (B2)	ne is requi	red: check all that ap Water-Stai Aquatic Fa True Aquati Hydrogen t Oxidized R	plv) ned Leav una (B13 lic Plants Sulfide Ou hizosphe	es (B9)) (B14) dor (C1) res on Liv	ing Roots		arv Indical face Soil (Inage Path -Season V Nyfish Burn uration V(s	lors (minit Cracks (B lerns (B14 Vater Tab ows (C8) sible on A sible on A	mum of two 6) 2) He (C2) erial Image	required)
YDROLOC YDROLOC Vetland Hyd Primary Indica Sutface 1 High Wat Saturation Water Me Saturation Drift Depu	BY rology Indicators: ators (minimum of of Vater (A1) er Table (A2) n (A3) atos (B1) Deposits (B2) posits (B3) or Cheri (P41)	ne is requi	red: check all that ap Water-Stai Aquatic Fa True Aquati Hydrogen ta Oxidized R Presence c	blv) ned Leav una (B13 lic Plants Sulfide On hizosphe of Reduce	es (B9)) (B14) dor (C1) res on Liv d Iron (C4	ing Roots		arv Indicat face Soil (unage Pat -Season V syfish Burn uration V(s nied or Sto onerchic	lors (mini Cracks (B lerns (B14 Vater Tab ows (C8) sible on A ressed Pi Zested Pi	mum of two 6) b) Ne (C2) erial Image ants (D1) 20)	required)
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Personal second	A YOLYIC S A Y rology Indicators: Alors (minimum of of Vater (A1) er Table (A2) n (A3) withe (B1) Deposits (B2) or Crust (B4) withe (B1) n Visible on Aerial I Vegetated Concave ations: Present? Y isent? Y isent? Y isent? Y Sent? Sent? Sent? Sent Sent? Sent? Sent Sent Sent Sent Sent Sent Sent Sent	megery (B s Surface (es gauge, mo	red: check all that ap 	bly) ned Leav una (B13 lic Plants Sulfide Out hizosphe of Reduce n Reducit Surface (Vell Data lain in Re hes): hotos, pro- - \ + ur	es (B9) (B14) dor (C1) res on Liv d Iron (C4) on in Tiller (C9) marks) $\int 11$ $\frac{11}{\sqrt{f_{a}}}$ evious ins	ing Roots) d Soils (C Wet pections), TGS E	A cre Second Sul Dra Dra Cre (C3) Sal Cre (C3) Sal Stu Stu 6) Ge FAI fand Hydrolog if available: CRE Sul Sul Sul Sul Sul Sul Sul Sul	arv Indicat face Soil (Inage Patt -Season V syfish Burn uration Vis nited or Sto omorphic I C-Neutrat y Present	lors (minin Cracks (B lerns (B14 Vater Tab ows (C8) jible on A ressed Pi Position (1 Test (D5)	mum of two 6) D) He (C2) erial Image ants (D1) D2)	

US Army Corps of Engineers

Midwest Region - Version 2.0

WETLAND DETERMINATION DATA FORM - Midwest Region

Projecticita: EVPOIO	City/County: Ch	ampaian Sampling Date: 3/4/17
Applicant/Qwner F. WARDANK WIND He	aldings Inc.	State: OH Sampling Point: WE +- KE
Investigatorist K. Hersheld, M. Molnar	Section, Township,	Range: CONCANL
Landform (billana torman ata): Sh a) A DA		
Landidum (missiope, terrace, etc.). ANTIVIL	Lucaries	22428
Slope (%): Lat		Datum: WO31404
Soil Map Unit Name: Crosby Sitt 100m	1 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	NWI classification: NOTVE
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes <u>V</u> No	(If no, explain in Remarks.)
Are Vegetation, Soll, or Hydrology	significantly disturbed? N A	re "Normal Circumstances" present? Yes <u>V</u> No
Are Vegetation, Soll, or Hydrology	naturally problematic? N (If	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	ip showing sampling point	t locations, transects, important features, etc.
Hydrophylic Vegetation Present? Yes 🗸	No	
Hydric Soil Present? Yes	No Is the Sampl	ed Area
Wetland Hydrology Present? Yes V	No within a Wet	Jand? Yes V No
All 3 wetland criter	a have been m	vet
VEGETATION - Use scientific names of plan	its.	
271	Absolute Dominant Indicato	Dominance Test worksheet:
Tree Stratum (Plot size: <u>20</u>)	<u>% Cover Species? Status</u>	- Number of Dominant Species
1. Sava & nigra	<u> </u>	Inal Are OBL, FACW, or FAC: (A)
2,		Total Number of Dominant
a	· · · · · · · · · · · · · · · · ·	_ Species Across All Strata: (B)
5		Percent of Dominant Species DO Control of Contro of Control of Control of C
······································	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)	· · · · · · · · · · · · · · · · · · ·	Prevalence Index worksheet:
1. Salix nigra	<u>16 V OBL</u>	Total % Cover of:Multiply by:
2		OBL species x1 =
3		_ FACW species x2=
4		FAC species x 3 =
5	<u></u>	
Herb Stratum (Piot size: 5	= Total Cover	
1. Appaunum cannabinum	D FAC	Column Totals: (A) (B)
2 X an throw strumanium	10 FAC	Prevalence index = B/A =
3. Tupha anaushifolia	$-60 \sqrt{0B}$	Hydrophytic Vegetation indicators:
4. Scirpus ruperinus	<u> 10 </u>	1 - Rapid Test for Hydrophytic Vegetation
5 Festuca tubra	10 FACU	2 - Dominance Test Is >50%
6		3 - Prevalence Index is ≤3.0 ¹
7		_ 4 - Morphological Adaptations ¹ (Provide supporting
8		Problematic Hydronhytic Venetation ¹ (Evolution)
9		
10		- Indicators of hydric soil and wetland hydrology must
Wanter Vine Stratum (Plot size: 301	= Total Cover	be present, unless disturbed or problematic.
1.		Hydronbytic
2		Vegetation /
	= Total Cover	Present? Yes V No
Remarks: (Include photo numbers here or on a separa	ite sheet.)	
Went reactation of	iturian has be	een met.
we w		
		·

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Profile Description: (Describe to the de	apth needed to docum	ent the	indicator	or confin	m the absence	of indicators.)
Depth <u>Matrix</u>	Redax	Feature	S Tune ¹	- Loc ²	Tevhne	Pamarie
				- <u></u>		
<u>5-3 101K 315 10C</u>	101066			# #	- SIITY C	ag
2-10 1011 312 40	DIK VIS	10	<u> </u>	. <u>M</u>	<u> </u>	<u> </u>
10-20104R3/1 90	DIRWA	10	<u> </u>	<u>M</u>	. clay_	
	· · · · · · · · · · · · · · · · · · ·		·			
Type: C=Concentration, D=Depletion, R	V=Reduced Matrix, MS	=Masked	i Sand Gi	ains.	² Location	: PL≔Pore Lining, M≂Matrix.
Hydric Soil Indicators:					Indicators	for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy G	leyed Ma	atrix (S4)		Coast	Prairie Redox (A16)
Histic Epipedon (A2)	Sandy R	edox (S5			Dark S	unace (S/)
Black Histic (A3)	Supped	Mainx (5 Lucio: ##5	ooj naral /E41			anyanese Masses (F72) hollow Dark Surface (T512)
rydrogen Suinde (A4) Stratified Lavers (A5)	Loamy A	iucký Mili Lieveri Mi	ahrix (F7)		very a	Explain in Remarks)
2 cm Muck (A10)	J Denieted	Matrix 4	F3)			
Depleted Below Dark Surface (A11)	Redox D	ark Surfa	ice (F6)			
Thick Dark Surface (A12)	Depleted	Dark Su	inface (F7	}	³ Indicators	of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox D	epressio	ns (F8)	-	welland	I hydrology must be present,
5 cm Mucky Peat or Peat (S3)					unless	disturbed or problematic.
Restrictive Layer (if observed):						· · ·
Туре:						
Depth (inches):					Hydric Soil	Present? Yes V No
Hydric soil crit	tenion h	as .	ben	n m	et ,	а намения на селона н
Hydric soil cri:	tenion h	as .	ben	n mu	et ,	
Remarks: Hydric Soil cri ² YDROLOGY Wetland Hydrology Indicators:	tenion h	125	been	n mu	et ,	
Remarks: Hydric Soil Cri ² IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rem	tenion h) as .	ben	n mu	L	rv Indicators (minimum of two required
Remarks: Hydric Soil Crit YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is reg	Hen on h		ben	n mu	L. , L. , 	ry Indicators (minimum of two required
Remarks: Hydric Soil crit YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required) Surface Water (A1) High Water Table (A2)	Lired; check all that app) Q.S 	b (e s (B9)	n mu	L+ , <u>Seconda</u> Surfa	rv Indicators (minimum of two required ace Soil Cracks (B6) age Patterns (B10)
Remarks: Hydric Soil crit YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is regin Surface Water (A1) V High Water Table (A2) Saturation (A3)	Lired; check all that app Water-Stain Aquatic Fac True Aquatic) Q.S)))))))))))))	bu es (B9)) (B14)	n mu	Lt , <u>Seconda</u> Surk Drai	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
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US Army Corps of Engineers

Midwest Region - Version 2.0

APPENDIX C

ORAM Data Sheets

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MARCH 2013 EVP010.300.0012





Refer to the story recent ORAM Score Calibration Report for the scoring, breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

3

Present in moderate or greater amounts

and of highest quality

Mod. 2

GRAND TOTAL(max 100 pts)



ORAM v. 5.0 Field Form Quantitative Rating



Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between watend categories at the following address: http://www.epa.state.oh.us/daw/401/401.htm

GRAND TOTAL(max 100 pts)





Refer to the most recent ORAM Score Calibration Report for the scoring, breakpoints between welland categories at the following address; http://www.epu.state.oh.up/daw/401/401.html





Mod. 2 GRAND TOTAL(max 100 pts)

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between watand categories at the following address: http://www.ape.state.oh.uskisw/401/401.html

and of highest quality









Refer to the most recent ORAM Score Calibration Report for the scoring binekpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.htm



ORAM v. 5.0 Field Form Quantitative Rating



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End of Quantitative Rating. Complete Categorization Worksheets.

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End of Quantitative Rating. Complete Categorization Worksheets.

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0RAM v. 5.	.0 Field For	n Quaniitative Rating			
Site:	GVIC	101 (1) Rate	ər(s): 🖂	Cara Date: 18 12/14]
	<u> </u>			······································	
	146				
SU	egeq færst latoldi	Wateria C. Canadal Matte		WETLAND Q	
0	0	Metric 5. Special Wetla	inas.	8flans	
mex 10 pis.	sublotal C	heck all that apply and score as indicated.		1110	.1
		Fen (10)		Non issiat	en
		Old growth forest (10)	;	j u -	
	1	Lake Erie coastal/tributary wetland	d-unrestricted hy	drology (10)	
		Lake Erie coastal/tributary wetlan	d-restricted hydro	ology (5)	
		Lake Plain Sand Prairies (Oak Op Relict Wet Prairies (10)	ænings) (10)		
		Known occurrence state/federal th	preatened or end	angered species (10)	
		Significant migratory songbird/wat	ier fowl habitat or m⊐t Qualitative t	rusage (10)	
		Antric 6 Plant commu	nifice inf	arenarsion microtopography	
	29	Netric 6. Thank commu	100co, 10	ersperaton, microtopography.	
mex 20 pis.	sublotat 6	a. Wetland Vegetation Communities.	Vegetation	Community Cover Scale	
	S	core all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area	
		Emergent	•	vegetation and is of moderate quality, or comprises a	
	Ô	Shrub		significant part but is of low quality	
	<u>``</u> }	Forest Mudflats	2	Present and either comprises significant part of welland's vegetation and is of moderate quality or comprises a small	
	•	Open water		part and is of high quality	
	21		3	Present and comprises significant part, or more, of wetland's vegetation and is of blob quality.	
	S	slect only one.	·	references and to an utility depend	
		High (5)	Narrative D	escription of Vegetation Quality	•
		Moderate (3)	KOW	disturbance tolerant native species	•.
	Ø	Moderately low (2)	mod	Native spp are dominant component of the vegetation,	
	-	Low (1)		can also be present, and species diversity moderate to	·.
	60	Coverage of invasive plants. Refer		moderately high, but generally w/o presence of rare	
	to	Table 1 ORAM long form for list. Add	bish	A predominance of pative species, with poppative spo	
	a	Extensive >75% cover (-5)	'mHu	and/or disturbance tolerant native spp absent or virtually	
		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,	
	0	Nearly absent <5% cover (-1)		I are presence or rare, preatened, or endangered spp	
		Absent (1)	Mudflat and	Open Water Class Quality	
	6d	. Microlopography. one all present using Ω to 3 scale.	0	Absent <0.1ha (0.247 acres)	
	UL.	Vegetaled hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.68 acres)	
		Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more	
	Ø	Standing dead >20cm (10in) dbh	Microtopog	raphy Cover Scale	
	Ø		0	Absent	
	Ø			Present very small amounts or if more common	
	Ø	r at privation of ocally pool	1	of marginal quality	
	Ø		1	of marginal quality Present in moderate amounts, but not of highest	
	0		1	of marginal quality Present in moderate amounts, but not of highest quality or in small amounts of highest quality	

End of Quantitative Rating. Complete Categorization Worksheets.

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ORAM v. 5.0 Field Form Quantitative Rating EVER POWER Date: Site: Rater(s): BMP Metric 1. Wetland Area (size). 10 Flags isolated WETLAND T Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. 1 pesiclute 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) x 14 ols. 2a. typha angusti typha lat. 2011 MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) O NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) 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), shout land, young second growth forest (5) MODERATELY HIGH. Besidential) fenced pasture, park, censervation thigge, new fallow field. (3) HIGH Withan, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. ð x 30 plu cublohe 3a. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. High pH groundwater (5) 100 year floodplain (1) Other groundwater (3) Between stream/lake and other human use (1) 4. 0 Part of welland/upland (e.g. forest), complex (1) Precipitation (1) Seasonal/Intermittent surface water (3) Part of riparian or upland comdor (1) Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Score one or dbl check. 3c. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) Regularly inundated/saturated (3) >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) Seasona 3e. Modifications to natural hydrologic regime. Score one or double check and average. Seasonally saturated in upper 30cm (12in) (1) None or none apparent (12) Check all disturbances observed ditch X tile point source (nonstormwater) Recovered (7) tile blowint filling/grading Recovering (3) dike road bed/RR track Recent or no recovery (1) weir dredging stonnwater input other Metric 4. Habitat Alteration and Development. 15 4a. Substrate disturbance. Score one or double check and average. 20 pis None or none apparent (4) Recovered (3) Recovering (2) 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) 2 Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average None or none apparent (9) Check all disturbances observed shrub/sapling removal Recovered (6) mowing Recovering (3) herbaceous/aquatic bed removal arazîno Recent or no recovery (1) dearculting sedimentation dredging selective cutting woody debris removal farming כ nutrient enrichment toxic pollutants at this peo last revised 1 February 2001 jjm 7



End of Quantitative Rating. Complete Categorization Worksheets.

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Site: Ever	ower Rater(s): B.Falkinburg	Date: 10/13/11
	Metric 1. Wetland Area (size).	tland U-lso
or 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) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts)	Corn 44 VS X X X
45	Metric 2. Upland buffers and surrounding land use.	- Woods
max 14 pts. sublotai	2a. Calculate average buffer width. Select only one and assign score. Do not double ch 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 (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Intensity of surrounding land use. Select one or double check and average	leck.
3	VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrubland, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)	l. (3)
	Metric 3. Hydrology. 3a Sources of Water Score all that apply 3b Connectivity Score all that apply	
	High pH groundwater (5) 100 year floodplain (1) Other groundwater (3) Between stream/lake and other human (2000) Y Precipitation (1) Part of wetland/upland (e.g. forest), com Seasonal/Intermittent surface water (3) Part of riparian or upland corridor (1) Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Stream	use (1) iplex (1) core one or dbl check.
	 Section to permanently intriduced/saturated (3) O.4 to 0.7m (15.7 to 27.6in) (2) C.4m (<15.7in) (1) Seasonally inundated (2) Seasonally saturated in upper 30cm (12) Seasonally saturated in upper 30cm (12) 	in) (1)
Q	None or none apparent (12) Check all disturbances observed Recovered (7) ditch point so X Recovering (3) tile filling/gr Recent or no recovery (1) dike road be weir dredgin stormwater input	purce (nonstormwater) rading rd/RR track g
8 /8	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)	
3	4b. Habitat development. Select only one and assign score. Excellent (7) Very good (6) Good (5) Moderately good (4) X Fair (3) Poor to fair (2) Poor (1) 4b. Habitat elteration. Score one or double check and average	
3	None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1) Check all disturbances observed mowing shrub/si grazing herbace selective cutting sedimer selective cutting dredging woody debris removal farming toxic pollutants nutrient	apling removal Hous/aquatic bed removal Intation 9 enrichment

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Site: Eler	POWE	Rater(s): B. Fo	Ukin	burg Date: 10/13/11
	—]			
subtotal th	xis page			
10 18	· N	Aetric 5. Special Wetlands	s.	wetland a
max 10 pts. subtobal	— c	heck all that apply and score as	indicated	d.
	Б	og (10)		
	F	en (10)		
		ld growth forest (10)		
	М	ature forested wetland (5)		
	L	ake Erie coastal/tributary wetland-unresi	tricted hydr	rology (10)
	L	ake Erie coastal/tributary wetland-restric	ted hydrolo	ogy (5)
		ake Plain Sand Prairies (Oak Openings)	(10)	
		elict Wet Praires (10)		
		nown occurrence state/rederal inreatene	eo or endar	ngered species (10)
		sterony 1 Wetland, See Question 5 Ous	nadical of u nitative Pat	15age (10)
	┥┙╜			
2 20	<u> </u>	etric 6. Plant communitie	es, inte	erspersion, microtopograpny.
max 20pts. subtotal	6	a. Wetland Vegetation Commu	inities.	Vegetation Community Cover Scale
	S	core all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		quatic bed	1	Present and either comprises small part of wetland's 1
	_ Å_E	mergent		vegetation and is of moderate quality, or comprises a
(\mathcal{I})				significant part but is or low quality
—		Drest	2	Present and either comprises significant part or wetland's 2
				best and is of high quality
		iber	3	Present and comprises significant part, or more, of wetland's 3
	6	o, horizontal (plan view) Interspersion	ı	vegetation and is of high quality
	Se	elect only one.		
	Пн	igh (5)		Narrative Description of Vegetation Quality
	M	oderately high(4)		Low spp diversity and/or predominance of nonnative or low
	M	oderate (3)		disturbance tolerant native species
E	M	oderately low (2)		Native spp are dominant component of the vegetation, mod
(0)	L.	w.(1)		although nonnative and/or disturbance tolerant native spp
	N	one (0)		Ican also be present, and species diversity moderate to
	6C	Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
	la or	deduct points for environment		Inreatened or endangered spp to
		tensive $>75\%$ cover (-5)		A predominance of name species, with normalive spp figh
		oderate 25-75% cover (-3)		absent and high spo diversity and often but not always
		arse 5-25% cover (-1)		the presence of rare, threatened, or endangered spo
(0)		arly absent <5% cover (0)		
\bigcirc	At	sent (1)		Mudflat and Open Water Class Quality
	16d	I. Microtopography.	0	Absent <0.1ha (0.247 acres)
	Sc	core all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)
\frown	Ve	getated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
$\langle O \rangle$		barse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more
\bigcirc		anding dead >25cm (10in) dbh		
,	An	nphibian breeding pools	_ 1	Microtopography Cover Scale
			0	Absent
			1	Present very small amounts of it more common
				principinal quality
		·	2	resent in moderate amounts, but not of highest
		l (may 100 nte)		Present in moderate or grader amounts
			3	
ast revised 1 Fe	eoruary	2003]]m	.	land of highest quality

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Site:	Everp	nver	Rater(s):	BMF	······································			Date: 10/13/11
1] Me	tric 1. Wetland	Area (size).		Wetlan	Vk	spring seep to wetland
x 6 pls	subtofa!	Select >50 a 25 to 10 to 3 to <	t one size class and a lores (>20.2ha) (6 pts) <50 acres (10.1 to <20. <25 acres (4 to <10.1h :10 acres (1.2 to <4ha) <3 acres (0.12 to <1.2)	ssign score. 2ha) (5 pts) a) (4 pts) (3 pts) a) (2 pts)		[<	solated	
	\odot	▼ 0.1 to <0.1	 <0.3 acres (0.12 to <1.2) <0.3 acres (0.04 to <0. acres (0.04ha) (0 pts) 	12ha) (1 pt)				1×
	2	Met	tric 2. Upland b	uffers and a	surroundi	ng land us	e .	
max 14 pts.	subtotal		alculate average buffe . Buffers average 50m UM. Buffers average 25 ROW. Buffers average 1 / NARROW. Buffers average / NARROW. Buffers average	r width. Select or (164ft) or more and im to <50m (82 to 0m to <25m (32ft erage <10m (<32ft	nly one and ass ound wetland per <164ft) around to <82ft) around) around wetlan	sign score. Do r erimeter (7) wetland perimeted d wetland perimeter d perimeter (0)	iot double check. er (4) ter (1)	
K			(LOW. 2nd growth or o Old field (>10 years), s ERATELY HIGH. Resid . Urban, industrial, oper	I land use. Selec Ider forest, prairie, hrubland, young s ential, fenced past pasture, row crop	savannah, wild econd growth fo ure, park, conse pping, mining, c	life area, etc. (7) prest. (5) ervation tillage, n onstruction. (1)	ew fallow field. (3)	Cattle water hole disappears
15	17		ric 3. Hydrolog	y. a all that apply	3h Com	ectivity Score :	il that apply	inder
max so pos		High X Other X Preci Sease Perer	bildes of water, Scon orgoundwater (5) groundwater (3) oitation (1) onal/Intermittent surface inial surface water (lake	water (3) or stream) (5)	100 year Between Part of we Part of rip 3d. Durat	floodplain (1) stream/lake and etland/upland (e.goarian or upland (tion inundation/	other human use (1) g. forest), complex (* corridor (1) saturation. Score o dated/caturated (4)) 1) ne or dbl check,
	2	>0.7 i >0.4 to <0.4 n 3e. M	27.6in) (3) 0.7m (15.7 to 27.6in) (3) o (<15.7in) (1) odifications to natural	hydrologic regin	Regularly Seasonal Seasonal	inundated/saturn iy inundated (2) iy saturated in up or double check	per 30cm (12in) (1)	
	S	X Reco X Reco Rece	vered (7) vering (3) nt or no recovery (1)		ditch tile dike weir stornwat	ter input	point source (filling/grading road bed/RR f dredging ther	nonstormwater) track <u>wing hole fo</u> r cattle
5	22] Met	ric 4. Habitat A	Iteration an	d Develop	oment.		.
max 20 pls.	subtotal	4a. Si	ubstrate disturbance. or none apparent (4)	Score one or dou	ble check and	average.		
		Recovered Recove	rered (3) rering (2) It or no recovery (1) abitat development. Se ent (7)	elect only one an	d assign score	•		
	3	Very g Good Mode X Fair (3 Poor f Poor f	ent (7) jood (6) (5) rately good (4) 3) o fair (2) 1) 2) 2)	one or double c	heck and avera			·
	0	None Recov Recov Recov	or none apparent (9) rered (6) rering (3) it or no recovery (1)		Check all Check all mowing X grazing clearcutir selective a woody del toxic polit	disturbances obs ng cutting bris removal utants	erved shrub/sapling herbaceous/ad sedimentation dredging X farming nutrient enrich	removal quatic bed removal ment
	subtotal this p	age ORAM last re	l v. 5.0 Field Form Qua vised 1 February 2001 j	ntitative Rating jm				

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Rater(s): BMF

Date: 10/13/11

		22				
		subtolal this	page			Wetland
	D	22	7	Metric 5. Special Wetlands.		VVCI MVIQ V
	max 10 nts.	subiotal	- E	Check all that apply and score as indi	cate	d.
	max re pos.			Bog (10)		-
				Fen (10)		
			\vdash	Old growth forest (10)		
				Mature forested wetland (5)		
				Lake Erie coastal/tributary wetland-unrestricted	i hvdi	rology (10)
		\cap		Lake Erie coastal/tributary wetland-restricted hy	ydrole	ogy (5)
		0		Lake Plain Sand Prairies (Oak Openings) (10)		
				Relict Wet Praires (10)		
				Known occurrence state/federal threatened or e	enda	ngered species (10)
				Significant migratory songbird/water fowl habita	t or i	usage (10)
			•	Category 1 Wetland. See Question 5 Qualitativ	e Ra	ting (-10)
	3	25		Metric 6. Plant communities,	inte	erspersion, microtopography.
	max 20pts.	subiotal		6a. Wetland Vegetation Communitie	\$.	Vegetation Community Cover Scale
				Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
				Aquatic bed	1	Present and either comprises small part of wetland's 1
		\sim		Ernergent		vegetation and is of moderate quality, or comprises a
		(I)		Shrub		significant part but is of low quality
		0		Forest	2	Present and either comprises significant part of wetland's 2
				Mudilats		regetation and is of moderate quality or comprises a small
				Other	2	Present and comprises significant part or more of wetland's 3
				6b borizontal (plan view) Interepersion	3	resent and comprises significant part, or more, or weband s s
				Select only one		vegetation and is of high quality
				High (5)		Narrative Description of Vegetation Quality
				Moderately high(4)		Low spp diversity and/or predominance of nonnative or low
				Moderate (3)		disturbance tolerant native species
-		\bigcirc		Moderately low (2)		Native spp are dominant component of the vegetation, mod
		\mathcal{O}		Low. (1)		although nonnative and/or disturbance tolerant native spp
		-	X	None (0)		can also be present, and species diversity moderate to
				6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
				Table 1 ORAM long form for list. Add		threatened or endangered spp to
			·	or deduct points for coverage		A predominance of native species, with nonnative spp high
				Extensive >/5% cover (-5)		and/or disturbance tolerant native spp absent or virtually
		6		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,
		C	H	Sparse 5-25% cover (-1) Nearly absent <5% cover (0)		Ine presence of rate, inteatened, of endangered spp
			\vdash	Absent (1)		Mudflat and Open Water Class Quality
				6d. Microtopography.	0	Absent <0.1ha (0.247 acres)
				Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)
		-		Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
				Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more
		(a)		Standing dead >25cm (10in) dbh		•
			L	Amphibian breeding pools		Microtopography Cover Scale
				,	0	Absent
			•		1	Present very small amounts or if more common
						for marginal quality
					2	mesent in moderate amounts, but not of highest
I		COAND		[Al (may 100 nte)	2	
	<u>~</u> 2	UNINU and 4 PT-	, 3 ∪ I has	- 2004 im	J	
	ast levis	eu i re	nnal	y 200 i jjili		jano or nignest quality

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ORAM v. 5.0 Field Form Quantitative Rating



[0 GRAND TOTAL(max 100 pts)

Refer to the most recent ORAM Score Calibration Report for the scoring breakcoints between wetland categories at the following address: http://www.epa.state.oh.us/daw/401/401.html



ORAM v. 5.0 Field Form Quantitative Rating



GRAND TOTAL(max 100 pts)

lie.oit.us/daw/401/401.htm st recent ORAM Score Calibration Report for the scoring, brea

Site: E	verpo	wer Rater(s): BMF		Date: 10/20/11
2	2	Metric 1. Wetland Area (size).	wetland	66-
ax 6 pis	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)	adjacer 25 f	it Flag s
5	7	Metric 2. Upland buffers and s	urrounding land use.	
max 14 pts.	subtotal	2a. Calculate average buffer width. Select onl WIDE, Buffers average 50m (164ft) or more arou MEDIUM. Buffers average 25m to <50m (82 to <	y one and assign score. Do not double check and wetland perimeter (7) 164ft) around wetland perimeter (4) o <82ft) around wetland perimeter (1) around wetland perimeter (0)	k. Her CRP
	Ð	2b. Intensity of surrounding land use. Select VERY LOW. 2nd growth or older forest, prairie, s LOW. Old field (>10 years), shrubland, young se MODERATELY HIGH. Residential, fenced pastu HIGH. Urban, industrial, open pasture, row cropp	one or double check and average. savannah, wildlife area, etc. (7) cond growth forest. (5) re, park, c <u>onservation tillage</u> , new fallow field. (3 ping, mining, construction. (1)	B) - CRP
q	16	Metric 3. Hydrology.		
max 30 pts.	subtotat	3a. Sources of Water. Score all that apply. High pH groundwater (5) Other groundwater (3) Precipitation (1)	3b. Connectivity. Score all that apply. 100 year floodplain (1) Between stream/lake and other human use Part of wetland/upland (e.g. forest), complete	e (1) xx (1)
	٥	Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5) 3c. Maximum water depth. Select one. >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2) X <0.4m (<15.7in) (1)	Part of riparian or upland corridor (1) 3d. Duration inundation/saturation. Score Semi- to permanently inundated/saturated Regularly inundated/saturated (3) Seasonally inundated (2) Seasonally saturated in upper 30cm (12in)	re one or dbl check. (4) (1)
	3	3e. Modifications to natural hydrologic regime None or none apparent (12) Recovered (7) X Recovering (3) Recent or no recovery (1)	e. Score one or double check and average. Check all disturbances observed ditch point source tile filling/grad dike road bed/F weir dredging stormwater input other	ce (nonstormwater) ing RR track
8	24	Metric 4. Habitat Alteration and	d Development.	
max 20 pts.	subtotal	4a. Substrate disturbance. Score one or doub None or none apparent (4) Recovered (3)	le check and average.	
	5	Recent or no recovery (1) 4b. Habitat development. Select only one and Excellent (7) Very good (6) Good (5) Moderately good (4)	assign score.	,
	3	Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double ch None or none apparent (9)	eck and average. Check all disturbances observed	. ,
	(3)	Recovered (0)	grazing Isnrub/sapi grazing herbaceou clearcutting selective cutting dredging woody debris removal farming toxic pollutants nutrient en	ing removal s/aquatic bed removal tion richment
	24 subtotal this p	ege ORAM v. 5.0 Field Form Quantitative Rating		·
Site: Eve	rpan	er Rater(s): BMF		Date: $10/20/u$
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Subto	<u>.4</u> Dial this page			
1012	4	Metric 5. Special Wetlands.		Wetland
max 10 pis. subic	ola)	Check all that apply and score as in	idicate	d. 66
6		Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland-unrestric Lake Erie coastal/tributary wetland-restricted	ted hydr	rology (10) pgy (5)
	-	Lake Plain Sand Prairies (Oak Openings) (1 Relict Wet Praires (10) Known occurrence state/federal threatened Significant migratory songbird/water fowl hal Category 1 Wetland. See Question 5 Qualita Motric 6 Plant communities	0) or endar bitat or u ative Rai	ngered species (10) usage (10) ting (-10)
	2	Wettend Venetation Communities), III U 141	Verstetien Community Cautor Spale
max 20pts. subto	olal	ba. wetland vegetation Communi	ILIES.	Absent or comprises <0 tha (0.2471 corps) continuous and
		Acuatic bed	1	Present and either comprises small part of wetland's 1
		Emergent	•	vegetation and is of moderate guality, or comprises a
5	> H	Shrub		significant part but is of low quality
. 0	ソド	Forest	2	Present and either comprises significant part of wetland's 2
		Mudflats	_	vegetation and is of moderate quality or comprises a small
		Open water		part and is of high quality
		Other	3	Present and comprises significant part, or more, of wetland's 3
		6b. borizontal (nlan view) interspersion.	·	vegetation and is of high guality
		Select only one		togoment and is of man dealey
		High (5)		Narrative Description of Vegetation Quality
-		Moderately high/4)		I ow spo diversity and/or predominance of poppative or low
	~ ⊢	Moderate (3)		disturbance tolerant native species
	ソト	Moderately Jow (2)		Native spore dominant component of the venetation mod
		I our (1)		isthough connective and/or disturbance tolerant pative con
	L X			reading in normative and/or disturbance tolerant native spp
				can also de present, and species diversity moderate to
		6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
		Table 1 ORAM long form for list. Add		threatened or endangered spp to
	· · · ·	or deduct points for coverage		A predominance of native species, with nonnative spp high
		Extensive >75% cover (-5)		and/or disturbance tolerant native spp absent or virtually
~		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,
(-3)) '	Sparse 5-25% cover (~1)		the presence of rare, threatened, or endangered spp
9	·	Abaast (4)		Mudfint and Onen Weter Class Quality
6			•	About and Open water class quality
50105		60. Microtopography.	<u> </u>	Absent <0.1na (0.247 acres)
- davis	_	Score an present using 0 to 5 scale.	-	
the.	<u> </u>	Vegetated nummucks/tussucks	4	INDOGENATE 1 TO <4/13 (2.4/ 10 9.00 acres)
(∩		3	Ingn 4na (9.06 acres) or more
	\sim L	Standing dead >25cm (10in) don		N'
		Purchang preeding bools	~	morotopography Cover Scale
			- <u>-</u>	
			1	Present very small amounts of it more common
			<u> </u>	lor marginal quality
			2	Present in moderate amounts, but not of highest
				quality or in small amounts of highest quality
25 GR/	AND TO	TAL(max 100 pts)	3	Present in moderate or greater amounts
last revised 1	1 Februa	ary 2001 jjm		and of highest quality
				•

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ORAM v. 5.0 Field Form Quantitative Rating Rater(s): Date: Site: P 0 NI 2 Wetland J: 5962 tal This Metric 5. Special Wetlands. Non - isolated Check all that apply and score as indicated. max 10 pts. subtribi Bog (10) Fen (10) Drains to South to a ditch to Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland-unrestricted hydrology (10) Lake Erie coastal/tributary wetland-restricted hydrology (5) Lake Plain Sand Prairies (Oak Openings) (10) Stream D-2 Relict Wet Praires (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) 12 Gps pts Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography. 6a, Wetland Vegetation Communities, Vegetation Community Cover Scale max 20 pts subtotal Score all present using 0 to 3 scale. Absent or comprises <0.1ha (0.2471 acres) contiguous area 0 Aquatic bed Present and either comprises small part of wetland's 1 Emergent vegetation and is of moderate quality, or comprises a 0 significant part but is of low quality Shrub Present and either comprises significant part of wetland's Forest 2 Mudflats vegetation and is of moderate quality or comprises a small Open water part and is of high quality 3 Present and comprises significant part, or more, of wetland's Other vegetation and is of high quality 6b. horizontal (plan view) Interspersion. Select only one. High (5) Narrative Description of Vegetation Quality Moderately high(4) Low spp diversity and/or predominance of nonnative or low Moderate (3) disturbance tolerant native species Moderately low (2) mod Native spo are dominant component of the vegetation, Low (1) although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to None (0) moderately high, but generallyw/o presence of rare 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add threatened or endangered spp A predominance of native species, with nonnative spp or deduct points for coverage high Extensive >75% cover (-5) and/or disturbance tolerant native sop absent or virtually Moderate 25-75% cover (-3) absent, and high spp diversity and often, but not always, Sparse 5-25% cover (-1) the presence of rare, threatened, or endangered spp O Nearly absent <5% cover (0) Absent (1) Mudflat and Open Water Class Quality 6d, Microtopography. Absent <0.1ha (0.247 acres) D Score all present using 0 to 3 scale. 1 Low 0.1 to <1ha (0.247 to 2.47 acres) Vegetated hummucks/tussucks 2 Moderate 1 to <4ha (2.47 to 9.88 acres) Coarse woody debris >15cm (6in) З High 4ha (9.88 acres) or more Standing dead >25cm (10in) dbh Amphibian breeding pools Microtopography Cover Scale Absent D Present very small amounts or if more common 1 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 GRAND TOTAL(max 100 pts)

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between welland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.htm



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subtotal tilis p	898. 			いしてい	,へい リ'	_
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0 139	'Imetric 5.	. Special W	vetlands.	4 	•	
max 10 pis subtotal	Check all that app	ply and score as indicate	ed.	· · ·		
	Bog (10))				
•		/) 's wth forest (10)	in the second		•	
,	Mature	forested wetland (5)				
0	Lake Er	rie coastal/tributary wetl	and-unrestricted hydrology (10)	• • • •	2
	. Lake Er	ne coastal/tributary wetl	and-restricted hydrology (5)	•		
	Lake Ph	ain Sand Prairies (Oak	Openings) (10)		•	
		Vet Praires (10)		ana sian (d.D)		
	Signific	occurrence state/redera	al inrealence of chicangered water fowl habitat or usage (species (10)	•	
· · ·		rv 1 Wetland: See Que	stion 1 Qualitative Rating I-	.0}		
11 442	₋; ╤┨		· · · · · · · · · · · · · · · · · · ·			
49	Metric 6	. Plant con	nmunities, int	erspersion, mic	rotopography.	
max 20 pts, subtotal	6a. Wetland Veg	etation Communities.	Vegetation Commun	ity Cover Scale		-
	Score all present	using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area	
÷	Aquatic	bed	1	Present and either comprises	small part of wetland's	•
		ent		vegetation and is of modera	te quality, or comprises a	
(5)	Shrub	•		Signmeant part but is of low.	quality	
	Mudflat		ک	vedetation and is of modera	te quality or comprises a small	
	Open w	vater	:	part and is of high quality		
	Other		- 3	Present and comprises signifi	cant part, or more, of wetland's	-
	6b. horizontal (pla	lan view) Interspersion.		vegetation and is of high qui	ality	<u> </u>
	Select only one.	. :			; ·	•
	High (5)) stolet himb (4)	Nanative Description	of Vegetation Quality	minones of nonnative or	
	1 dillorer	area man(+)	10.46			
	Modera	ate (3)		disturbance folerant native s	pecies	
G		ate (3) itely low (2)	mod	disturbance tolerarit native s	pecies	
	Modera Modera Low (1)	ate (3) ately low (2)	mod	disturbance toleranit native s Native spp are dominant.com although nonnative and/or d	pecies conent of the vegetation, isturbance tolerant hative spp	- .
(Z	Modera Modera Low (1) None (0	ate (3) itely low (2)) D)	mod	distuirbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp	pecies conent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to	<u> </u>
	Modera Modera Low (1) 5c. Coverage of	ate (3) ately low (2)))) invasive plants. Refer	mod	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d .can also be present, and sp moderately high, but genera	pecies ponent of the vegetation, isturbance tolerant native spp ecies diversity moderate to llyw/o presence of rare	~ .
	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM	ate (3) ately low (2)) D) invasive plants. Refer I long form for list. Add	mod	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare pp	
(Z	Modera Modera Modera Low (1) Sc. Coverage of I to Table 1 ORAM or deduct points fi	ate (3) ately low (2)) invasive plants. Refer I long form for list. Add for coverage (5)	mod	distuirbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s A predominance of native spe and/or disturbance tolerant	pecies conent of the vegetation, isturbance tolerant native spp ecies diversity moderate to llyw/o presence of rare pp cies, with nonnative spp cies, with nonnative spp	
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	Modera Modera Modera Low (1) Sc. Coverage of 1 to Table 1 ORAM or deduct points fo Extensi Modera	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1)	mod	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d .can also be present, and sp moderately high, but genera threatened or endangered s A predominance of native spe and/or disturbance tolerant i absent, and high spp divers the presence of rare, threat	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare pp cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp	
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(Z	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points for Extensi Modera Sparse Nearly a Absent	ate (3) ately low (2) invasive plants. Refer l long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (0) (1)	mod high Mudflat and Open W	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s A predominance of native spe and/or disturbance telerant i absent, and high spp divers the presence of rare, threate ater Class Quality	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare pp cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp	
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	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points fo Extensi Modera Sparse Nearly a Absent 6d. Microtopogra Score all present	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-5) ate 25-75% cover (-1) absent <5% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks	mod high <u>Mudflat and Open W</u> 0 1 5 2	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s A predominance of native spe and/or disturbance telerant is absent, and high spp divers the presence of rare, threate ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1) Vicio 405 (9.88 acres)	pecies ponent of the vegetation, isturbance tolerant hattive spp ecles diversity moderate to llyw/o presence of rare pp cles, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 3.88 acres)	
(4)	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points fit Extensi Modera Sparse Nearly a Absent 6d. Microtopogra Score all present Coarse	ate (3) ately low (2) invasive plants. Refer I long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6 and dead >25cm (10in) db	mod high <u>Mudflat and Open W</u> 0 1 s 2 5 im) 3 bh	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but general threatened of endangered s A predominance of native spe and/or disturbance tolerant i absent, and high spp divers the presence of rare, threats ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare pp cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 8.88 acres)	
(2 (4)	Modera Modera Modera Low (1) None (0 5c. Coverage of I to Table 1 ORAM or deduct points fi Extensi Modera Sparse Nearly a Absent 6d. Microtopogra Score all present Vegetat Coarse / Standin Amphib	ate (3) ately low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6) and cover (10in) division breeding pools	mod high <u>Mudflat and Open W</u> 0 1 5 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 5 5 1 5 5 5 1 5	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s A predominance of native spe and/or disturbance telerant i absent, and high spp divers the presence of rare, threater ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to High 4ha (9.88 acres) or more ver Scale	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare pp cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 3.88 acres)	
(2 (4)	Modera Modera Modera Low (1) None (0 5c. Coverage of I to Table 1 ORAM or deduct points fi Extensi Modera Sparse Nearly a Absent 6d. Microtopogra Score all present Vegetal Coarse / Standin Amphib	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6 ng dead >25cm (10in), di bian breeding pools	mod high <u>Mudflat and Open W</u> 0 1 s 2 5in) 3 bh <u>Microtopography Co</u> 0	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s A predominance of native spe and/or disturbance tolerant i absent, and high spp divers the presence of rare, threater ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to High 4ha (9.88 acres) or more ver Scale Absent	pecies properties	
Co A	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points fi Extensi Modera Sparse Absent 6d. Microtopogra Score all present Coarse X Coarse X Standin Amphib	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6) ag dead >25cm (10in) dt bian breeding pools	mod high Mudflat and Open W 0 1 5 2 5 5 1 3 bh Microtopography Co 0 1	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but general threatened of endangered s A predominance of native spe and/or disturbance telerant is absent, and high spp divers the presence of rare, threated ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more ver Scale Absent	pecies ponent of the vegetation, isturbance tolerant hative spp ecles diversity moderate to llyw/o presence of rare pp cles, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 3.88 acres) 	- · · · · · · · · · · · · · · · · · · ·
(2 (2) (4)	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points fo Extensi Modera Sparse Nearly a Absent 6d. Microtopogra Score all present Coarse X Standin Amphib	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6) ing dead >25cm (10in) di bian breeding pools	mod high <u>Mudflat and Open W</u> 0 1 5 5 5 1 3 bh <u>Microtopography Co</u> 0 1	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but general threatened of endangered s A predominance of native spe and/or disturbance telerant is absent, and high spp divers the presence of rare, threats ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more ver Scale Absent Present very small amounts o of marginal quality	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare PP cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 2.88 acres) r if more common	
(a (4)	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points fo Extensi Modera Sparse X Nearly a Absent 6d. Microtopogra Score all present Vegetat Coarse X Standin Amphib	ate (3) ately low (2) invasive plants. Refer I long form for list. Add for coverage we >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6) and debris >15cm (10) bian breeding pools	mod high <u>Mudflat and Open W</u> 0 1 5 5 5 5 1 3 5 0 1 1 2	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but general threatened of endangered s A predominance of native spe and/or disturbance tolerant i absent, and high spp divers the presence of rare, threats ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more ver Scale Absent Present very small amounts of of marginal quality Present in moderate amounts	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare pp cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 8.88 acres) 9.88 acres) 9.88 acres)	
Co A	Modera Modera Modera Low (1) None (0 5c. Coverage of I to Table 1 ORAM or deduct points fi Extensi Modera Sparse Nearly a Absent 6d. Microtopogra Score all present Vegetat Coarse X Standin Amphib	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6 ng dead >25cm (10in) di bian breeding pools	mod high <u>Mudflat and Open W</u> 0 1 5 5 5 1 3 0 1 1 2 2 1	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but general threatened of endangered s A predominance of native spe and/or disturbance telerant i absent, and high spp divers the presence of rare, threate ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more ver Scale Absent Present in moderate amounts of of marginal quality Present in moderate amounts of guality or in small amounts of Present in moderate or greater	pecies properties	
A A A	Modera Modera Modera Low (1) None (0 5c. Coverage of I to Table 1 ORAM or deduct points fi Extensi Modera Sparse Nearly a Absent 6d. Microtopogra Score all present Vegetal Coarse / Standin Amphib	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6 ng dead >25cm (10in) di bian breeding pools	mod high <u>Mudflat and Open W</u> 0 1 5 5 5 1 0 1 1 0 1 1 2 2 3	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s A predominance of native spe and/or disturbance telerant i absent, and high spp divers the presence of rare, threatt ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more ver Scale Absent Present very small amounts o of marginal quality Present in moderate amounts quality or in small amounts of Present in moderate or greate and of hichest quality	pecies properties	
ت ح ل ل	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points fi Extensi Modera Sparse X Nearly a Absent 6d. Microtopogra Score all present X Coarse X Standin Amphib	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-3) 5-25% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6 ing dead >25cm (10in), dt bian breeding pools	mod high Mudflat and Open W 0 1 1 5 5 m) 3 bh Microtopography Co 0 1 1 2 3	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s A predominance of native spe and/or disturbance tolerant i absent, and high spp divers the presence of rare, threater ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more ver Scale Absent Present very small amounts of of marginal quality Present in moderate amounts quality or in small amounts Present in moderate or greater and of highest quality	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare pp cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 3.88 acres) r if more common , but not of highest of highest quality r amounts	
(2 (2) (4) (4)	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points fo Extensi Modera Sparse X Nearly a Absent 6d. Microtopogra Score all present X Coarse X Standin Amphib	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-1) absent <5% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (8 ag dead >25cm (10in) dt bian breeding pools	mod high Mudflat and Open W 0 1 2 5 5 5 1 3 0 1 1 2 2 3	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but general threatened or endangered s A predominance of native spe and/or disturbance telerant is absent, and high spp divers the presence of rare, threats ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more ver Scale Absent Present very small amounts of of marginal quality Present in moderate amounts quality or in small amounts and of highest quality	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare PP cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 2.88 acres) 	
(2 (2) (4) (4)	Modera Modera Modera Low (1) None (0 5c. Coverage of 1 to Table 1 ORAM or deduct points fo Extensi Modera Sparse Nearly a Absent 6d. Microtopogra Score all present Vegetat Coarse X Standin Amphib	ate (3) itely low (2) invasive plants. Refer long form for list. Add for coverage ive >75% cover (-5) ate 25-75% cover (-1) absent <5% cover (-1) absent <5% cover (0) (1) aphy. using 0 to 3 scale. ted hummucks/tussucks woody debris >15cm (6 ing dead >25cm (10in) di bian breeding pools ax 100 pts)	mod high <u>Mudflat and Open W</u> 0 1 5 5 5 5 0 1 1 5 0 1 2 2 3	disturbance tolerant native s Native spp are dominant.com although nonnative and/or d can also be present, and sp moderately high, but general threatened of endangered s A predominance of native spe and/or disturbance tolerant i absent, and high spp divers the presence of rare, threats ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.4 Moderate 1 to <4ha (2.47 to 1 High 4ha (9.88 acres) or more ver Scale Absent Present very small amounts of of marginal quality Present in moderate amounts quality or in small amounts Present in moderate or greate and of highest quality	pecies ponent of the vegetation, isturbance tolerant hative spp ecies diversity moderate to llyw/o presence of rare pp cies, with nonnative spp native spp absent or virtually ity and often, but not always, ened, or endangered spp 7 acres) 2.88 acres) 2.88 acres) 2.88 acres) 2.99 7 acres of this state of the state	

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28 GRAND TOTAL (max 100 pts)

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between welland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

last revised 1 February 2001 jjm

RAM v. 5.0 Field Form Quantitative Rating		•	Wetland KA.
Site: EVPO10	Rater(s): K. He	vshey	Date: 3-4-13
O O Metric 1. Wetland	ł Area (size).		solated
max 6 pls, sublotal Select one size class and assign sco	re,		PEMIDES
25 to <50 acres (10.1 to <2	0.2ha) (5 pts)		1 21 (1235
0 10 to <25 acres (4 to <10.1 3 to <10 acres (1.2 to <4ha	ha) (4 pts)) (3 pts)	•	
0.3 to <3 acres (0.12 to <1,	2ha) (2pts) 0 12ha) (1 pt)		12 + 1ags
<	, iznaj (1 pi)		,
Metric 2 Unland	huffers and sur	rounding k	anduse
nex 14 pts. subtotal 2a. <u>Calculate</u> average buffer width. S	Select only one and assign score.	Do not double check.	
WDE. Buffers average 50r MEDIUM. Buffers average	n (164ft) or more around wetland 25m to <50m (82 to <164ft) arou	i perimeter (7) nd wetland perimeter (4) .
NARROW. Buffers average	10m to <25m (32ft to <82ft) arc	ound wetland perimeter	(1)
2b. Intensity of surrounding land use.	Select one or double check and	d average.	
VERY LOW. 2nd growth or LOW. Old field (>10 years)	older forest, prairie, savannah, w shrubland, young second growth	vildlife area, etc. (7) h forest. (5)	
MODERATELY HIGH. Res	idential, fenced pasture, park, co	nservation tillage, new i	fallow field. (3)
	en pastere, for copping, maning		
Vietric 3. Hydrolo	gy.	3h Connectivity Scr	re all that enniv
High pH groundwater (5)	appıy.	100 year floo	dplain (1)
Other groundwater (3)	j Č	Part of wetla	am/lake and other human use (1) nd/upland (e.g. forest), complex (1)
Seasonal/Intermittent surface Perennial surface water (lak	e water (3) e or stream) (5)	3d. Duration inundation	an or upland corridor (1) n/saturation. Score one or dbi check.
3c. Maximum water depth. Select on	y one and assign score.	Semi- to pen	nanently inundated/saturated (4)
0.4 to 0.7m (15.7 to 27.6in)	(2)		nundated (2)
3e. Modifications to natural hydrologic	regime. Score one or double ch	neck and average.	
None or none apparent (12)	Check all disturbances observ	ved	(nonstormwater)
() Recovering (3)	Kile allo	filling/grading	
Kecent of no recovery (1)	weir		
	stormwater input	other	<u> </u>
7 13 Matric A Habitat	Altoration and F)evelonmei	1
x 20 pts. subtotal 4a. Substrate disturbance, Score one	or double check and average.	ve ve lo pillei	140
None or none apparent (4) Recovered (3)			
(2) X Recovering (2)			
4b. Habitat development. Select only	one and assign score.		
Excellant (7)			•
Good (5) Moderately good (4)			
Fair (3)			
Poor (1)			<i>.</i> .
4c. Habitat alteration. Score one or do	uble check and average.	ed	· · · · ·
(3) Recovered (6)	mowing	shrub/sapling	removal
Recovering (3)	grazing clearcutting	sedimentation	
12	selective cutting	dredging K farming	
			8

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Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html





Cat I GRAND TOTAL(max 100 pts)

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between welland categories at the following address; http://www.epa.state.oh.us/dow/401/401.html

and of highest quality

APPENDIX D

Stream Data Sheets

HULL & ASSOCIATES, INC. DUBLIN, OHIO

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MARCH 2013 EVP010.300.0012

	A Mod. Class II bascolon HMFEI & 1- Sabmanders *	2ckof
	EVPOOR Stream B HHEI Score (sum of metrics 1, 2, 3): 7	4
		46
	LENGTH OF STREAM REACH (#) 200 LAT 40°9'24.11"LONG 83'39'52 4"#NVER CODE RIVER MILE	<u>7 @</u>
	DATE 5/22/0B SCORER SMH COMMENTS	
	NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruct	tions
	STREAM CHANNEL 11 NONE INATURAL CHANNEL JIRECOVERED LY RECOVERING 11 RECENT OR NO RECOVERING 11	ERY) S
	1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY <u>two</u> predominant substrate TYPE boxes (May of 32) Add total number of significant substrate boxes found (May of 8). Einal metric score is sum of boxes A & B	HHEI
		Metric Points
		Substrate
		Max = 40
	Image: Sand set in the set	19
	Total of Percentages of 25 (A) 15 (B) //	A+B
	Bidr Stabs, Boulder, Cobble, Bedrock 7 /7 SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: 4	
	2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Po	ool Depth
	evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check CNLY one box):	<u>Max = 30</u> 20 国
	22.5 - 30 cm [30 pts] → > 10 - 22.5 cm [25 pts] → NO WATER OR MOIST CHANNEL [0 pts] → 76 4	<i>90</i>
	COMMENTSNAXIMUM POOL DEPTH (centimeters):	
4.27	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 (≤ 3'3") [5 pts] □ > 1.5 m (> 3'3" - 4" 8") [15 pts] □ > 1.5 m (> 3'3" - 4" 8") [20 pts]	Bankfull Width Max=30
2.47	COMMENTSAVERAGE BANKFULL WIDTH (meters)	
	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	
	L R (Per Bank) L R (Most Predominant per Bank) L R · O O Wide >10m O Mature Forest, Wetland O O Conservation Tillage	
	Moderate 5-10m Immature Forest, Shrub or Old Immature Forest,	
	Narrow <5m Open Pasture, Row Crop	
	None D Fenced Pasture D Mining or Construction COMMENTS	
	FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Image: Comparison of the solution of t	
	SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 0.5 1.5 2.5 >3	
	STREAM GRADIENT ESTIMATE	

October 24, 2002 Revision

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PHWH Form Page - 1

	QHEIPERFORMED? - LIYes Koy No QHEIScore	2 (If Yes, Attach Completed QHEI Form)
Ĺ	DOWNSTREAM DESIGNATED USE(S)	Distance from Evaluated Stream
ſ	CWH Name:	Distance from Evaluated Stream
[] EWH Name:	Distance from Evaluated Stream
L (MAPPING: ATTACH COPIES OF MAPS, INCLUDING T VA MILITAN DISTRICT LOT ISGS Quadrangle Name: DISTRICT LOT County: MISCELLANEOUS Base Flow Conditions? (Y/N): N Date of last precipitation	THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION 4544 MRCS Soil Map Page:
5	potentiant EVROBI, 300,000	6. X13 Photo # 3 25 3 26
ء -		40 "
E	<pre>sevaled turbidity? (T/N): Canopy (% open):</pre>	
١	Vere samples collected for water chemistry? (Y/N): /// (N	Note lab sample no. or id. and attach results) Lab Number:
F	ield Measures: Temp (°C) Dissolved Oxygen (mg/	/l)pH (S.U.)Conductivity (µmhos/cm)
1	s the sampling reach representative of the stream (Y/N) $\underline{\qquad}$	If not, please explain:
	· · · · · · · · · · · · · · · · · · ·	
,	additional comments/description of pollution impacts: $10 f_s$	5 of place anowing on substrat
ት ታት ት	a emichment	
<u>,</u> , , , , , , , ,		
F	erformed? (Y/N): (If Yes, Record all observations.) ID number. Include appropriate fi	Voucher collections optional. NOTE: all voucher samples must be labeled with the site ield data sheets from the Primary Headwater Habitat Assessment Manual)
	ich Cheening (M) A Variation (M) A Salamar	nders Observed? (VAL) N Voucher? (VAL) N
, F	rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) A	Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) V
ایران	Comments Regarding Biology: <u>7/10 Stream</u>	Nos moattied Class 114 Rheuerene The
М	The anglang and an t	nosened thund a Sapaping.
-		
	DRAWING AND NARRATIVE DESCRIP	TION OF STREAM REACH (THIS <u>Intest</u> be completed);
F		1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
	The strengt	p- dite

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Stream B EVP001

3. Macroinvertebrate Scoring Sheet:

THE HEADWATER MACROINVERTEBRATE FIELD EVALUATION INDEX (HMFEI) SCORING SHEET

	Indicate Abundence of Each	Texa Above each W	hite Box.	
	Record HMFEI Scoring Val	ue Points <u>Within</u> ce	ch Box.	1
L <u></u>	For EPT texa, elso indicate the	กแก่งอางไ ซีเปียงรม	t taxa present	j
Key: V = Very Abund	ant (> 50); A = Abundan	it (10 -50); C	= Common (3 -9); R	= Rare ($<$ 3)
Sessile Animals (Porifera,	Crayfish (Decapoda)		Fishfly Larvae	72
Cnidzria, Bryozoa)	ㅋ		(Corydalidae)	हिंदी
(HMFEI pts = 1)	(HIMFEI pis = 2)		(HMFEI pts = 3)	
Aquatic Worms (Turbellaria,	Dragonfly Nymphs		Water Penny Bectles	
Oligochaeta, Hirudinea)	(Anisoptera)		(Psephenidze)	
(HEMFEI prs = 1)	(HMFE1 pts = 2)	<u></u>	(HMFEl pis = 3)	<u></u>
Sow Bugs	Riffic Beetles (Dryopidze,	·	Cranefly Larvae	
(Isopoda)	Elimidae, Ptilodaetylidae)		(Tipulidae)	
(HMFEI pts = 1)	(HMFEI pts = 2)		(HMFEI pu = 3)	
Scuds (Amphipoda)	Larvee of other Flies	R	ΕΡΙΤΑΧΑ	<u></u>
(HMFEI pts = 1)	(Diptera) Name:			
	(HMFEl pts = i)		Total No. EPT Taxa	
Water Mites (Hydracarina) -	Midges (Chironomids)	Ę	Mayfly Nymphs	
(HMFEI pts = 1)	(HMFEI pts = 1)		(Ephemeropæra)	
	····	نيا 		. ,
Damselfly Nymphs	Snails		Taxa Present	
(Zygopiere)	(Gestropoda)		[HMFE] pis =	
(HMFEI pts = 1)	(HMFEI pts = 1)	. ـــــــــــــــــــــــــــــــــــــ	No: Taxa (x) 3]	
Alderfiy Larvae	Clams		Stonealy Nymphs	
(Sizlidze)	(Bivalyiz)		(Plecoptera)	·
(HMFEI pts = 1)	(HMFEI pts = 1)			,
Other Bestles	Other Taxa :		Texe Present	
(Colcoptera)			[HMFEI pts =	
(HMFEİ pıs = 1)			No. Taxa (x) 3]	
Other Taxa:	Other Taxa:		Caddisfly Larvae	
			(Trichoptera)	·
Other Taxa:	Other Taxa:			
			Taxa Present	
Other Taxa:	Other Texa		[HMFE] pts =	
			No. Tzxs (x) 3]	
Voucher Sample ID _ Kech /	Z HHEI I	lime Spent (minute	s): 20	

Voucher Sample ID <u>ALCH 1666</u> Time Spen: (minutes): <u>#</u> <u>Notes on Macroinvertebrates:</u> (Predominant Organisms; Other Common Organisms; Diversity Estimate)

Final HMFEI Calculated Score (Sum of All White Box Scores) =



IF Final HMFEI Score is 2 20, Then CLASS II PHWH STREAM IF Final HMFEI Score is 7 10 19, Then CLASS II PHWH STREAM

EVPOOL Stream B sheet 12

PHWH STREAM BIOLOGICAL CHARACTERISTICS FIELD SHEET:

1. Fish:

Voucher Specimens Retained? (circle) Y / N Time Spent (minutes):__ Sample Method Stream Length Assessed (meters)

Species	Number Caught	Notes
·		
~		· · · · · · · · · · · · · · · · · · ·
<u></u>		

2. Salamanders:

Voucher Specimens Retained? (circle) Y (N) Sample Method VES Stream Length Assessed (meters) /0.1

Time Spent (minutes): 30

(200 ft)

Species (Genus)	#Larvae	# Juveniles/Adults	Total Number
Mountain Dusky (Desmognathus ochrophaeus)			Ø
Northern Dusky (Desmognathus fuscus)			$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$
Two-lined (Eurycea bislineata)			Ø
Long-tailed (Eurycea longicauda)			Ø
Cave (Eurycea lucifuga)			Ø
Red (Pseudotriton ruber)			Ø
Mud (Pseudotriton montanus)			Ø
Spring (Gyrinophilus porphyriticus)			Ø
Mole spp. (Ambystoma spp.)			Ø
Four-toed (Hemidactylium scutatum)			Ø
Other (name)			Ø.
Total			φ

PHWH FORM - Page 3

Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3): 57 STRE NUMBEL CONTION		Ephemeral STREAM
HHEI Score (sum of metrics 1, 2, 3): STREAM REACH (p) 200 LAT. STREAM REACH (p) 200 LAT. LENGTH OF STREAM REACH (p) 200 LAT. COMER STATE COLSPAN LAT. MILLION COLSPAN LAT. STREAM REACH (p) 200 LAT. COLSPAN LAT. COLSPAN LAT.		Primary Headwater Habitat Evaluation Form
STEE NAMESLOCATION SUBMIT STATE (Submits) CT + CO CT + CO T + CO ALC ALM STEE NAMESLOCATION STEE NAMESLOCATION DRANAGE AREA (mt) 2.0 C LENGTH OF STREAM REACH (MT) 2.0 C LAT. LONG. RIVER COOL DATE (J, II, II SCORER EM FALL/LANGOMENTS S-mAth - P LUR BALLA MOTE Complete All Hears On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STEE AM REACH (MT) QUAR (J, III) SCORER EM FALL/LANGOMENTS S-mAth - P LUR BALLA QUAR (J, III) NOTE Complete All Hears On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STEE AM REACH (MT) Quar (J, III) Quar (J, IIII) Quar (J, IIIIIIIIII) Quar (J, IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		HHEI Score (sum of metrics 1, 2, 3) :
EINE HOURSEY, OFF. 22, NUCK ROOM International procession International procession LENGTH OF STREAM REACH (M) 220 International procession International procession International procession DATE 10/11 SCORER SM FALLUI (Maggomments Sended and the sender of the form - Refer to "Field Evaluation Manual for Ohlo's PHWH Streams" for Instructions STREAM CLANNEL Divisit (Notificial provide a stream of every type of substate present. Check ON Ying productinum and stream of the stream of the stream of every type of substate present. Check ON Ying productinum and stream of the stream of the stream of every type of substate present. Check ON Ying productinum and state of the sentence of substate present. Check ON Ying productinum and state of the sentence of substate present. Check ON Ying productinum and state of the sentence of substate present. Check ON Ying productinum and state of the sentence of the sentence of substate present. Check ON Ying productinum and state of the sentence of t	SITE NA	MELOCATION EVER AWER UT to UT to Daga vi Run
DATE 10/11 SOORER EM FALLI/BARCOMMENTS Sourth of Marked A Landowskie Sourth of Marked A Landowskie NOTE: Complete All Homs On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CRANNEL INONE (NATURAL Distance And the strength of the strength o	LENGTH	SITE NUMBER 37-3-2 RIVER BASIN DRAINAGE AREA (MP) 0.5 2
NOTE: Complete All Hems On Tals Form - Refer to "Field Evaluation Manual for Ohlo's PHWH Streams" for instructions SUBSTRATE (Estimate percent of every type of substrate present. Check OM, Ywp prodominant outbarde TYPE houses (Man of 2), Add tool number of substrate present. Check OM, Ywp prodominant outbarde TYPE houses (Man of 2), Add tool number of substrate present. Check OM, Ywp prodominant outbarde TYPE houses (Man of 2), Add tool number of substrate present. Check OM, Ywp prodominant outbarde TYPE houses (Man of 2), Add tool number of substrate present. Check OM, Ywp prodominant outbarde TYPE houses (Man of 2), Add tool number of substrate types found (Man of 2). Find tool number of substrate TYPE at 1 and the percent of substrate types (Man of 2). Add tool number of substrate TYPE (Man of 2). Add tool number of substrate type (Man of 2). Add	DATE /	0/11/11 SCORER BM FACKINBURGOMMENTS South of URBANA WOODTICK Rd
STREAM CLANNEL	NOTE	: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
1. SUBSTRATE (Estimate percent of every type of substrate present. Check OM. / Yop predominant aubishes 7/92 boxes (date of 32). Add total number of substrate types found (likes of 3). Final match socker is sum of boxes A & B. HHE Werk of Adds total number of substrate types found (likes of 3). Final match socker is sum of boxes A & B. HHE Werk of Adds total number of substrate types found (likes of 3). Final match socker is sum of boxes A & B. HHE Werk of Adds total number of substrate types found (likes of 3). Final match socker is sum of boxes A & B. HHE Werk of Adds total number of substrate types is total (likes of 3). Final match socker is sum of boxes A & B. HHE Werk of Adds total number of substrate types is total (likes of 3). Final match socker is sum of boxes A & B. HHE Werk of Adds total number of substrate types is total (likes of 3). Final match socker is sum of boxes A & B. HHE Werk of Adds total number of substrate types is total (likes of adds total number of boxes is sum of boxes A & B. HHE Werk of Adds total number of substrate types is total (likes of adds total number of boxes is sum of boxes A & B. HHE Werk of Adds total number of substrate types is total (likes of adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total number of boxes is sum of boxes adds total num	STREA MODIF	M CHANNEL
UPUE of S2, AND load infinited of splandard sources are gypes to be a plandard source and the source of a s	1.	SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes
Bit Bit Bit Image: Star Bit Imag	TYPE	PERCENT TYPE
Belocki pis pis ////////////////////////////////////	88	
Image: Solution of the state in the sta		
Image: Same (s2 non) (5 pts);		GRAVEL 2-94 mm Bries 457 DB MCCK 10 ms 207.
Total of Percentages of Bdrk Stabs, Boulder, Cobble, Bedrox [1'/. (A) (B) (A) SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: (B) (C) 2. Maximum Pool Depth (Measure the maximum pool depth within the of meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culvers or storm water pipes) (Check ONL Y one box): Pool De Max =: 2. Maximum Pool Depth (Measure the maximum pool depth within the of meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culvers or storm water pipes) (Check ONL Y one box): Pool De Max =: 3. COMMENTS 4 Ch over. In ACK How Storm KMOST Or ANNEL Roppisit With Max =: 3. COMMENTS 4 Ch over. In ACK How Storm KMOST Or ANNEL Roppisit With Max =: 3. Comments 1 C check ONL Y one box): With Max =: Im A the field	00	SAND (SZ MD) IS PHELA
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: Long to the maximum pool depth within the 67 meter (200 ft) evaluation reach at the time of evaluation. Avoid plurgle pools from read culvers or storm waler pipes) (Check ONLY one box): 2. Maximum Pool Depth (Measure the maximum pool depth within the 67 meter (200 ft) evaluation reach at the time of evaluation produces from read culvers or storm waler pipes) (Check ONLY one box): Pool De Max = 1 2. Maximum Pool Depth (Measure the maximum pool depth within the 67 meter (200 ft) evaluation reach at the time of evaluation produces for mode culvers or storm waler pipes) (Check ONLY one box): Pool De Max = 1 2. Maximum Pool Depth (Measure the store of the maximum pool depth within the 67 meter (200 ft) evaluation reach at the time of evaluation produces for the maximum pool depth within the 67 meter (200 ft) evaluation reach at the time of evaluation produces for pipes) 2. Maximum Pool Depth (Measure the store of the maximum pool depth within the 67 meter (200 ft) evaluation reach at the time of evaluation produces for pipes) Pool De Max = 1 2. Maximum Pool Depth (Measure the store of the maximum pool depth within the 67 meter (200 ft) evaluation reach at the time of evaluation for store of the fight) Maximum Pool Depth (Measure for store of fight) 3. RANK FULL WIDTH (Measure as the average of 3-4 measurements) Check ONLY one box): Maximum Pool fight (f) as looking downstreams? 3.0 None for evaluation for store for minimation must also for store for with moter store maximum for store for minimat per Ban	I	Total of Percentages of (A) 9 Bidr Slabs, Boulder, Cobble, Bedrock (A) 9
2. Maximum Pool Depth (Messure the maximum pool depth within the 57 meter (200 ff) evaluation reach at the time of evaluation, Avoid plunge pools from read culvers or storm valier pipes) (Check ONLY one box): Pool De Max = 1 2.2.6 St ont 150 pies] Check ONLY one box): Maximum Pool Depth (Messure the maximum pool depth within the 57 meter (200 ff) evaluation reach at the time of evaluation, Avoid plunge pools from read culvers or storm valier pipes) Check ONLY one box): Max = 1 2.2.6 St ont 150 pies] OVM Pies] St ont 150 pies] Max = 1 3. BANK FULL WIDTH (Messured as the average of 3-4 messurements) Check ONLY one box): Max = 1 3.0 Adding St one 150 pies] St one 150 pies] Max = 1 Max = 1 3.0 Adding St one 150 pies] St one 150 pies] Max = 1 Max = 1 3.0 St one 150 pies] St one 150 pies] Max = 1 Max = 1 3.0 St one 150 pies] St one 150 pies] Max = 1 Max = 1 3.0 St one 150 pies] St one 150 pies] Max = 1 Max = 1 3.0 St one 150 pies] St one 150 pies] Max = 1 Max = 1 3.0 This information prove the Ack Max = 10 pies] Max = 1	SCORE	OF TWO MOST PREDOMINATE SUBȘTRATE TYPES: Louis TOTAL NUMBER OF SUBSTRATE TYPES: Louis Contract
Sector 10 cm (15 pm) Sorie 10 cm (15	2. !	Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Pool Dependentiation, Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):
Image: Stream Fight Contract Stream Fight F		30 (Sentimeline 120 pts)
COMMENTS 4 cm over mack #MAXIMUM POOL DEPTH (continueters): 124 3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check OMLY one box): 12 minute for a formation in the second of the	<u> </u>	10.+22.5 cm [25 pls]
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box); Ham 15 m (2003 4.4 m) (Measured as the average of 3-4 measurements) (Check ONLY one box); Bankfu Width Maxasi 3.0 .0 m (5 % 7.4 %) (20 play	(COMMENTS 4 cm over mack the maximum pool DEPTH (centimeters):
COMMENTS AVERAGE BANKFULL WIDTH (meters) This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY L'R (Per Bank) L R Output Wide >10m H Mature Forest, Wetland H Wide >10m H Moderate 5-10m Heid Immature Forest, Shrub or Old Heid Immature Forest, Shrub or Old Heid Immature Forest, Shrub or Old Narrow <5m	3. ¹¹ ~	BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Bankfull 40 meters (> 13) [30 pts] 3.0 m 1.0 m 1.5 m (> 3.3 * 4.4 8') [16 pts] Width 3.0 m 4.0 m (> 9 * 1.0 m 1.5 m (> 3.3 * 4.4 8') [16 pts] Max=34
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream* RIPARIAN WOTH L''R (Per Bank) L R (Most Predominant per Bank) L R O Wide >10m Mature Forest, Wettand O Conservation Tillage Moderate 5-10m I R (Most Predominant per Bank) L R Orban or Industrial Narrow <5m I Residential, Park, New Field None I Residential, Park, New Field Stream Flowing Mining or Construction Mining or Construction Subsurface flow with isolated pools (interstilial) Molst Channel, Isolated pools, no flow (Intermittent) Dr. Mex Clip Fre- Molst Channel, Isolated pools, no flow (Intermittent) Subsurface flow with isolated pools (Interstilial) Pry channel, for water (Ephemeral) 3.0 Subsurface flow with isolated pools (Interstilial) Qual Clip Fre- Qual Clip Fre- 3.0 Subsurface flow with isolated pools (Interstilial) Qual Clip Fr	. (
Internation matching day consistent of completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE River Left (L) and Right (R) as looking downstream at RIPARIAN WIDTH L''R (Per Bank) L R O Wide >10m O Mature Forest, Wetland O Conservation Tillage Image: Moderate 5-10m Image: Mature Forest, Shrub or Old Image: Imag		· · · · · · · · · · · · · · · · · · ·
Impartant Virban Impartant Production Imp	<u> </u>	The information must also be completed
Wide >10m Mature Forest, Wetland Conservation Tillage Moderate 5-10m Immature Forest, Shrub or Old Urban or Industrial Narrow <5m		This information <u>must</u> also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ PIPARIAN WARTH FLOODPLAIN OLIALITY
Field Field Field Field Image: Stream Flowing Image: Stream Flowing Flow with isolated pools (Interstitial) Field Image: Stream Flowing Image: Stream Flowing </td <td></td> <td>This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY INNOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH <u>RIPARIAN WIDTH</u> <u>FLOODPLAIN QUALITY</u> L"R (Per Bank) L R</td>		This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY INNOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH <u>RIPARIAN WIDTH</u> <u>FLOODPLAIN QUALITY</u> L"R (Per Bank) L R
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COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY WCCOPFO VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools (Interstitial) COMMENTS DRY VI Usubsurface flow with isolated pools COMMENTS C	[[This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY IN NOTE: River Left (L) and Right (R) as looking downstream in RIPARIAN WIDTH RIPARIAN WIDTH FLOODPLAIN QUALITY L''R (Per Bank) L R U''R (Per Bank) L R Mature Forest, Wettand U Conservation Tillage U''R Moderate 5-10m U Intransure Forest, Shrub or Old Narraw firm D Residential Part, New Field Ref.
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 Dry channel, no water (Ephemeral) SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check OWLY one box): None 1.0 0.5 1.5 STREAM GRADIENT ESTIMATE	 (- (This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstreams RIPARIAN WIDTH FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstreams L``R (Per Bank) L R L``R (Per Bank) L R O Wide >10m O Mature Forest, Wetland O Conservation Tillage O Moderate 5-10m O Immature Forest, Shrub or Old O Urban or Industrial Narrow <5m
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check OWLY one box): None 1.0 2.0 3.0 0.5 1.5 2.5 3 STREAM GRADIENT ESTIMATE	[. [This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream ** L'R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m Image Mature Forest, Wetland Image Image Moderate 5-10m Image Image Image Image Moderate 5-10m Image Image Image Image Narrow <5m
None 1.0 2.0 3.0 0.5 1.5 2.5 9 STREAM GRADIENT ESTIMATE		This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY Stream River and Stream St
STREAM GRADIENT ESTIMATE	. (. (. (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 RIPARIAN WIDTH FLOODPLAIN QUALITY Monte: River Left (L) and Right (R) as looking downstream & RIPARIAN WIDTH L''R (Per Bank) L R (Most Predominant per Bank) L R U''R (Per Bank) L R (Most Predominant per Bank) L R U''R (Per Bank) L R (Most Predominant per Bank) L R U''R (Per Bank) L R (Most Predominant per Bank) L R U''R (Wide >10m I R (Most Predominant per Bank) L R U''R Wide >10m I R (Most Predominant per Bank) L R U''R Wide >10m I R (Most Predominant per Bank) L R U''R (Wide >10m I Residential, Park, New Field I Residential I Residential, Park, New Field None I R Fenced Pasture I Residential, Park, New Field I Residential Row Crop None I R Fenced Pasture I R Moist Channel, Isolated pools, no flow (Infermititent) Dry channel, no water (Ephermeral)
		This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY Kiparian WilDTH FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream * RIPARIAN WIDTH FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream * Wide >10m Image: Residentiant per Bank) Image: Residentiant per Bank) Image: Residentiant per Bank) Image: Residentiant per Bank) Moderate 5-10m Image: Residentiant per Bank) Image: Reside

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ADDITIONAL STREAM INFO	RMATION (This Information Must Also be	Completed):	STREAM DO	
QHEI PERFORME	07 - O Yes D No QHEI Score	(If Yes, Attach Completed QHE		-
DOWNSTREAM DE	SIGNATED USE(S)			1
回 WWH Name: <u> </u>	to ut to Dugan 1	Distance from E	ialuated Stream	,
EWH Name:	······································	Distance from Ev	aluated Stream	
MAPPING: ATTACH	COPIES OF MAPS, INCLUDING THE ENTIRE	WATERSHED AREA. CLEARLY N	ARK THE SITE LOCATION	
USGS Quadrangle Name:	NR	CS Soil Map Page: NRC	S Soll Map Stream Order	
County: CHAMPA	TGN Township /	City:	<u> </u>	
MISCELLANEOUS				
Base Flow Conditions? (Y/N);	Date of last precipitation:	Quentity:	· .	
Photograph Information:	yes ft		·	
Elevated Turbidity? (Y/N);	Canopy (% open): 30%			
Were samples collected for wa	fer chemistry? (Y/N); Note lab sam	ole no. or id. and allach results) L.	ab Number:	
Field Measures: Temp (°C)	Dissolved Oxvnen (mn/l)	nH (S.U.) Conductivit	/ (umhos/cm)	
is the sampling reach rangesen	telive of the stream (V/M)	e emisio:	;	
In the service of the such coord		о окрана. <u></u>	• • •	
		pasture_	•	
Additional commentsroescriptic	on or pollution antpacts:	· · · · · · · · · · · · · · · · · · ·	·····	
	·····	· · · · · · · · · · · · · · · · · · ·		·
BIOTIC EVALUATION	DN (If Yes, Record all observations, Voucher colle ID number, Include appropriate field data shee	ctions optional. NOTE: all voucher t	samples must be labeled with the site tat Assessment Manual)	;
BIOTIC EVALUATION Performed? (Y/N): Fish Observed? (Y/N) Frogs or Tadpoles Observed? (DN (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data shee Voucher? (Y/N) Salamanders Observ (Y/N) Voucher? (Y/N) Aquatic Ma	ctions optional. NOTE: all voucher a Is from the Primary Headwater Hab ed? (Y/N) // Voucher? (Y/N) croinvertebrates Observed? (Y/N)	samples must be labeled with the site tat Assessment Manual) 	;
BIOTIC EVALUATION Performed? (Y/N):	DN (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data shee Voucher? (Y/N) Salamanders Observ (Y/N) Voucher? (Y/N) Aquatic Ma Green Forg. in p14356	ctions optional. NOTE: all voucher of the from the Primary Headwater Hab ed? (Y/N) Voucher? (Y/N)_ croinvertebrates Observed? (Y/N) Peo [samples must be labeled with the site tat Assessment Manual)	;
BIOTIC EVALUATION Performed? (Y/N): Fish Observed? (Y/N) Frogs or Tadpoles Observed? (Comments Regarding Biology:	DN (If Yes, Record all observations, Voucher colle ID number, Include appropriate field data shee Voucher? (Y/N)	ctions optional. NOTE: all voucher : Is from the Primary Headwater Hab ed? (Y/N) ///////////////////////////////////	samples must be labeled with the site tat Assessment Manual)	;
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BIOTIC EVALUATION	DN (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data shee Voucher? (Y/N)	ctions optional. NOTE: all voucher a Is from the Primary Headwater Hab ed? (Y/N) // Voucher? (Y/N), croinvertebrates Observed? (Y/N) Peo I STREAM REACH (This mu	samples must be labeled with the site tat Assessment Manual)	•
BIOTIC EVALUATION	DN (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data shee Voucher? (Y/N)	ctions optional. NOTE: all voucher a ts from the Primary Headwater Habied? (Y/N) Croinvertebrates Observed? (Y/N) Peo I STREAM REACH (This main evaluation and a narrative description RT/CC	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) <u>Ist be completed</u>): ption of the stream's location	•
BIOTIC EVALUATION Performed? (Y/N):	ON (If Yes, Record all observations, Voucher colle ID number, Include appropriate field data stree Voucher? (Y/N) Salamanders Observ (Y/N) / Voucher? (Y/N) M Aquatic Ma <u>Green forest in p1M15c</u> ID NARRATIVE DESCRIPTION OF marks and other features of interest for site <u>Conce</u> <u>UPBAJA</u> 00D	ctions optional. NOTE: all voucher a Is from the Primary Headwater Hab ed? (Y/N) // Voucher? (Y/N) croinvertebrates Observed? (Y/N) Pee STREAM REACH (This multiple evaluation and a narrative description STOCK R-D.	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) ust be completed): ption of the stream's location	•
BIOTIC EVALUATION Performed? (Y/N):	ON (If Yes, Record all observations. Voucher colled ID number. Include appropriate field data street Voucher? (Y/N) Salamanders Observ Y/N)_Y' Voucher? (Y/N) Aquatic Ma Green in p1M152 D NARRATIVE DESCRIPTION OF marks and other features of interest for site Green OO D	ctions optional. NOTE: all voucher a Is from the Primary Headwater Hab ed? (Y/N) // Voucher? (Y/N) peo I STREAM REACH (This man evaluation and a narrative description STOCK R-D.	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) Ist be completed): ption of the stream's location Vow YB " Coucrete p	; •
BIOTIC EVALUATION Performed? (Y/N):	ON (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data shee Voucher? (Y/N)	ctions optional. NOTE: all voucher in its from the Primary Headwater Hab ed? (Y/N) Voucher? (Y/N) croinvertebrates Observed? (Y/N) peo I STREAM REACH (This mine evaluation and a narrative description STOCK R-D.	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) Ist be completed): ption of the stream's location Y8" Concrete p y8" Concrete p y8" concrete p	ipe e Pool
BIOTIC EVALUATION Performed? (Y/N):	ON (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data shee Voucher? (Y/N)	ctions optional. NOTE: all voucher and station the Primary Headwater Habied? (Y/N) ///////////////////////////////////	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) Ist be completed): ption of the stream's location Voucher? (Y/N) Plung Much Plung	ipe e-Pool S.
BIOTIC EVALUATION Performed? (Y/N): Fish Observed? (Y/N) Frogs or Tadpoles Observed? (Comments Regarding Biology: DRAWING AN include important landm (ur FLOWITA	ON (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data stree Voucher? (Y/N)	ctions optional. NOTE: all voucher a its from the Primary Headwater Hab ed? (Y/N) Voucher? (Y/N) croinvertebrates Observed? (Y/N) Peel STREAM REACH (This mul- evaluation and a narrative description STOCK R=D Parce Reace Re	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) ust be completed): ption of the stream's location VB" Coucrete P Much Plung Blac	ipe e-Pool s. intercou
BIOTIC EVALUATION Performed? (Y/N): Fish Observed? (Y/N) Frogs or Tadpoles Observed? (Comments Regarding Biology: DRAWING AN Include Important landm UTA FLOWITTA Profile St OPE in 1500 Tacket	ON (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data stree Voucher? (Y/N)	ctions optional. NOTE: all voucher and state from the Primary Headwater Hab ed? (Y/N) Voucher? (Y/N), croinvertebrates Observed? (Y/N) Peo I STREAM REACH (This main evaluation and a narrative description STOCK R-D. Porce React Collection State St	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) Ist be completed): ption of the stream's location V/F/oW YB " Concrete p Mnch P Jung Bldo Bldo	ipe e-Fool s. intercon
BIOTIC EVALUATION Performed? (Y/N): Fish Observed? (Y/N) Frogs or Tadpoles Observed? (Comments Regarding Biology: DRAWING AN Include Important landm Urr FLOWING Progle St OPE in Progle St OPE in Progle St OPE in Progle St OPE in Progle St OPE in	ON (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data shee Voucher? (Y/N) Salamanders Observ (Y/N) / Voucher? (Y/N) Aquatic Ma Green Great Great in p14152 D NARRATIVE DESCRIPTION OF marks and other features of interest for site Conce DEBANA 000 D	ctions optional. NOTE: all voucher and sta from the Primary Headwater Habied? (Y/N) Voucher? (Y/N), peol Peol STREAM REACH (This main and a narrative description and a narrative description and a narrative description of the peol Peol Peol Peol Peol Peol Peol Peol P	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) Ist be completed): ption of the stream's location YB" Coucrede p Much Plung Much Blog PAST	ipe e-Pool in Arcon somer
BIOTIC EVALUATION Performed? (Y/N): Fish Observed? (Y/N) Frogs or Tadpoles Observed? (Comments Regarding Biology: DRAWING AN include important landm Ur FLOWITA Profile Se OPE in 12000 Pastword	CIN (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data stree Voucher? (Y/N) Salamanders Observ (Y/N) Y Voucher? (Y/N) M Aquatic Ma Green fore: in p1M15c D NARRATIVE DESCRIPTION OF marks and other features of interest for site Card UPBANA WOOD UPBANA WOOD UPBANA WOOD UPBANA WOOD	ctions optional. NOTE: all voucher a its from the Primary Headwater Hab ed? (Y/N) Voucher? (Y/N) prol Prol STREAM REACH (This multiple evaluation and a narrative description STOCK R-D Proce R-D R-D R-D R-D R-D R-D R-D R-D	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) List be completed): ption of the stream's location VB" Coucrete P VB" Coucrete P Plung Much Plung Bldc PAST EROSION	ipe e-Pool intercon intercon
BIOTIC EVALUATION Performed? (Y/N):	CIN (If Yes, Record all observations. Voucher colle ID number. Include appropriate field data shee Voucher? (Y/N)	ctions optional. NOTE: all voucher and state that the primary Headwater Habied? (Y/N) Voucher? (Y/N) Croinvertebrates Observed? (Y/N) Peol STREAM REACH (This main evaluation and a narrative description of a narrative description of the processing of the processin	samples must be labeled with the site tat Assessment Manual) Voucher? (Y/N) Ist be completed): ption of the stream's location VB" Concrete pr Mnch Plung Bldo PAST ERDSI ON	ipe e-Fool intercon intercon

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SITE N/	AME/LOCATION EVPOID OFT TO TRAILle Creek SITE NUMBER STRM D-2 RIVER BASIN DRAINAGE AREA (mi?) 0.55 M/2
	H OF STREAM REACH (ft) LAT. <u>10.1438</u> LONG. <u>2239143</u> RIVER CODE RIVER MILE <u>2-13-11</u> SCORER <u>BHF</u> COMMENTS COMMENTS
STRE/	AMIGHANNEL
	SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. HHE1 Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. HHE1 BLDR SLABS [16 pis] Image: state type of substrate type of substrate types found (Max of 8). Final metric score is sum of boxes A & B. HHE1 BLDR SLABS [16 pis] Image: state type of substrate type of substrate type of substrate type of substrate types found (Max of 8). Final metric score is sum of boxes A & B. HHE1 BLDR SLABS [16 pis] Image: state type of substrate
	COBBLE (65-256 mm) [12 pis] GRAVEL (2:64 mm) [9 pis] SAND (<2 mm) [6 pis] CID ARTIFICIAL [3 pis] CID ARTIFICIAL [3 pis]
SCORE	Total of Percentages of (B) (A) (B) (C) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
	Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Pool Depth 30 centimeters (20 pts) (1.5 cm 10 cm [15 pts]) (2.5 cm 10 cm [15 pts]) 2.5 cm [15 pts]) 1022.5 cm [25 pts] NOWATER OR MOIST CHANNEL [0 pts]) 2.5
3	COMMENTS 3 % 6 6 MAXIMUM POOL DEPTH (centimeters): BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Bankfull
	<0 metars (> 13) [30 pbs] U 30 m 75 m(>3 3 3 4 8 7) [15 pbs] Width >3.5 m 40 m > 9 7 (3) [25 pbs] U \$10 m 7 5 m(>3 3 3 4 8 7) [15 pbs] -1.5 m 3.0 m > 8 7 (3) [20 pbs] U \$10 m 7 5 m(>3 3 3 1 4 8 7) [15 pbs] -1.5 m 3.0 m > 8 7 7 (3) [20 pbs] U \$10 m 5 m \$15 pbs] COMMENTS 0 7 / 8 AVERAGE BANKFULL WIDTH (meters) Z.1 2.0
	This information <u>must</u> also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY TO NOTE: River Left (L) and Right (R) as looking downstream to RIPARIAN WIDTH FLOODPLAIN QUALITY
	L R (Per Bank) L R (Most Predominant per Bank) L R Image: Conservation 10 and the second secon
	Image: 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 COMMENTS
	SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):
	STREAM GRADIENT ESTIMATE

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ADDITIONAL STRE	EAM INFORMATION (This Information Must Also be Completed):
OHEI PEI	ERFORMED? - O Yes Vo QHEI Score (If Yes, Attach Completed QHEI Form)
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
D EWH Name:	Distance from Evaluated Stream
MAPPING	G: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle i	Name: NRCS Soil Map Page: NRCS Soil Map Stream Order_
County:	Township / City:
MISCELL	LANEOUS
Base Flow Condition	ons? (Y/N): Date of last precipitation: Quantity:
Photograph Informa	ation: $\gamma - \gamma - \gamma$
Elevated Turbidib/2	(V/N): N Capary (% open): 20%
were samples coller	ected for water chemistry? (Y/N): (Note lab sample no. or id. and attach results) Lab Number:
Field Measures:	Temp (°C) <u>32</u> Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
is the sampling reac	ch representative of the stream (Y/N) If not, please explain:
Additional comments	to description of pollution impacts:
BIOTIC E	EVALUATION
Performed? (Y/N):	(If Yes, Record all observations. Vaucher collections optional. NOTE: all voucher samples must be labeled with
	D number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N	N) / Voucher? (Y/N) / Salamanders Observed? (Y/N) / Voucher? (Y/N) / Vouch
Comments Repartin	no Biolow NONL NACH TO Aqual Machine Replaces Coserver (MACT Volume (MAC)
AT AT AT IN	a throughout channel
	<i>(</i>
DRAM	WING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
Include impor	ortant landmarks and other features of interest for site evaluation and a narrative description of the stream's loca
-N	Phalavis + Gleichema hederaceane in chai
¥ .	Fortst armainage got said
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	At TOS
	2,5,2,4
	The point of
	T.T. The Galant
Ener. A	(lay clay/sad randarak) () said
Fures.	
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Sheanne		
ChieEDA Primary Heady	vater Habitat Evalu	ation Form
CARCEPA	HHEI Score	(sum of metrics 1, 2, 3): 37
SITE NAME/LOCATION EV POOL Sheet 3		
SITE NUMBER_HHEI-6	RIVER BASIN	DRAINAGE AREA (mi ²) 5777 2.7
LENGTH OF STREAM REACH (#) _ 200 LAT	LONG RIV	ER CODE RIVER MILE
DATE 11 2 0/08 SCORER SMH KC CC	MMENTS	<u></u>
NOTE: Complete All Items On This Form - Refer t	o "Field Evaluation Manual for	Ohio's PHWH Streams" for Instructions
STREAM CHANNEL	INNEL ORECOVERED REC	OVERING 🗍 RECENT OR NO RECOVERY
MODIFICATIONS:		
1. SUBSTRATE (Estimate percent of every type of s	ubstrate present. Check ONLY two	predominant substrate TYPE boxes
(Max of 32). Add total number of significant substrat	e types found (Max of 8). Final metric	score is sum of boxes A & B. HHEI BEDCENT Metric
BLDR SLABS [16 pts]		Points
BOULDER (>256 mm) [16 pfs]		DEBRIS [3 pts] Substrate
COBBLE (65-256 mm) [12 pts]	CLAY or HARDPAN	[0 pt]
(g 0) GRAVEL (2-64 mm) [9 pts](g 0)		17
[▲[] <u>SAND (<2 mm) [6 pts]</u> <u>40</u>	U U ARTIFICIAL [3 pts]	
Total of Percentages of Bidr Slabs, Boulder, Cobble, Bedrock	(A)	^(B) 2 A+B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYP	ES: TOTAL NUMBER	R OF SUBSTRATE TYPES:
2. Maximum Pool Depth (Measure the maximum po	ol depth within the 61 meter (200 fij	evaluation reach at the time of Pool Depth
evaluation. Avoid plunge pools from road culverts or > 30 centimeters [20 pts]	storm water pipes) (Check ONLY of > 5 cm - 10 cm [15 r	one box): Max = 30
□ > 22.5 - 30 cm [30 pts]		
	A NO WATER OR MO	
COMMENTS	MAXIMUM PC	DOL DEPTH (centimeters):
3. BANK FULL WIDTH (Measured as the average of > 4.0 meters (> 13) [30 pts]	3-4 measurements) (Check	k ONLY one box): Bankfull 3" - 4' 8") [15 pts] Width
>3.0 m - 4.0 m (> 9' 7" - 13") [25 pts]	□ ≤ 1.0 m (≤ 3' 3") [5 p	ts] Max=30
		2.5 20
	AVERAGE BA	
This i	information <u>must</u> also be complete	d
RIPARIAN ZONE AND FLOODPLAIN QUAI RIPARIAN WIDTH FLOODP	JTY STNOTE: River Left (L) and I PLAIN QUALITY	Right (R) as looking downstream ar
	(Most Predorginant per Bank)	
L R (Per Bank) L R U U Wide >10m U U U Modemte 5 10m U U	Mature Forest, Wetland Immature Forest, Shrub or Old	Conservation Tillage
L R (Per Bank) L R Image: Constraint of the state s	Mature Forest, Wetland Immature Forest, Shrub or Old Field	Conservation Tillage
L R (Per Bank) L R 〇 〇 Wide >10m 〇 〇 〇 〇 Moderate 5-10m 〇 〇 〇 〇 Narrow <5m	Mature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field	Conservation Tillage
L R (Per Bank) L R I Vide >10m II I Moderate 5-10m III I Narrow <5m	Mature Forest, Wetland Immature Forest, Wetland Field Residential, Park, New Field Fenced Pasture	Conservation Tillage Curban or Industrial Curban or Industrial Curban Pasture, Row Crop Crop Mining or Construction
L R (Per Bank) L R Wide >10m 0 0 Moderate 5-10m 0 0 Narrow <5m 0 0 None 0 0 FLOW REGIME (At Time of Evaluation) (Cl	Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture neck ONLY one box):	Conservation Tillage Curban or Industriat Curban Pasture, Row Crop Mining or Construction
L R (Per Bank) L R Wide >10m D Moderate 5-10m D Narrow <5m D COMMENTS FLOW REGIME (At Time of Evaluation) (C) Stream Flowing	Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture	Conservation Tillage Curban or Industrial Curban or Industrial Curban Pasture, Row Crop Curban Or Construction
L R (Per Bank) L R Wide >10m C C Moderate 5-10m C C Narrow <5m C C None C C C MMENTS FLOW REGIME (At Time of Evaluation) (C) Stream Flowing C Subsurface frow with isolated pools (interstitia COMMENTS	Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture neck ONLY one box): Moist Channel, Dry channel,	Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction el, isolated pools, no flow (Intermittent) no water (Epherneral)
L R (Per Bank) L R Vide >10m 0 Moderate 5-10m 0 Narrow <5m 0 None 0 COMMENTS FLOW REGIME (At Time of Evaluation) (Cl Stream Flowing Subsurface flow with isolated pools (interstitia COMMENTS SINUOSITY (Number of bends per 61 m (200	Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture neck ONLY one box): Moist Channel Dry channel, Att of channel) (Check ONLY one box)	Conservation Tillage Urban or Industrial Open Pasture, Row Crop III Mining or Construction el, isolated pools, no flow (Intermittent) no water (Epherneral)
L R (Per Bank) L R Image: Constraint of the state in	Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture neck ONLY one box): (h) Dry channel, Dry channel, (Check ONLY one box) (Check ONLY one box)	Conservation Tillage Urban or Industrial Copen Pasture, Row Crop Mining or Construction el, isolated pools, no flow (Intermittent) no water (Ephermeral) pox): 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.
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