Photo 43. Stream NN looking upstream facing north.

Photo 44. Stream NN looking downstream facing south.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 45. Stream OO looking upstream facing northeast.

Photo 46. Stream OO looking downstream facing southwest.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 47. Culvert at the beginning of Stream PP looking upstream facing west.

Photo 48. Stream PP looking downstream facing east.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 49. Stream QQ looking upstream facing northwest.

Photo 50. Stream QQ looking downstream facing east.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 51. Stream SS looking upstream facing northeast.

Photo 52. Stream SS looking downstream facing southwest.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 53. Stream TT looking upstream facing east.

Photo 54. Stream TT looking downstream facing west

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 55. Stream UU looking upstream facing southwest.

Photo 56. Stream UU looking downstream facing northeast.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 57. Stream VV looking upstream facing west.

Photo 58. Stream VV looking downstream facing east.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 59. Stream WW looking upstream facing west.

Photo 60. Stream WW looking downstream facing east.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 61. Stream XX looking upstream facing west.

Photo 62. Stream XX looking downstream facing east.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 63. Stream YY looking upstream facing southwest.

Photo 64. Stream YY looking downstream facing south.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 65. Stream ZZ looking upstream facing southeast.

Photo 66. Stream ZZ looking downstream facing northwest.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 67. Stream ZZ-2 looking upstream facing south.

Photo 68. Stream ZZ-2 looking downstream.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-8070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 69. Stream AAA.

Photo 70. Stream AAA looking downstream facing west.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 71. Wetland J just south of State Route 36, facing northwest.

Photo 72. Wetland M looking northeast.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
December 2011

Project Number: EVP010
File Name: EVP010.300.0010

Photo 73. Wetland N looking east.

Photo 74. Wetland T facing east along State Route 161.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: December 2011

Project Number: EVP010
File Name: EVP010.300.0010

Photo 75. Wetland U facing north.

Photo 76. Wetland V facing north.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 77. Wetland W facing northwest.

Photo 78. Wetland Y facing west.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 79. Wetland Z facing west.

Photo 80. Wetland AA facing northwest.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 81. Wetland BB facing west.

Photo 82. Wetland CC facing northeast.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date: February 2012

Project Number: EVP010

File Name: EVP010.300.0010

Photo 83. Wetland DD facing north.

Photo 84. Wetland EE facing north.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 85. Wetland FF facing east.

Photo 86. Wetland GG facing northwest.

Hull & associates, inc
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 87. Wetland HH facing northwest.

Photo 88. Wetland II facing west.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 89. Wetland JJ facing northeast.

Photo 90. Wetland KK facing south.

Hull & Associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 91. Wetland LL facing east.

Photo 92. Wetland MM facing southeast.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

Photo 99. Wetland NN facing east.

Hull & associates, inc.
6397 Emerald Parkway
Suite 200
Dublin, Ohio 43017
Phone: (614) 793-8777
Fax: (614) 793-9070
www.hullinc.com

Buckeye II Wind Farm
Surface Water Delineation

Site Photographs

Champaign County, Ohio

Date:
February 2012

Project Number: EVP010
File Name: EVP010.300.0010

APPENDIX B

Wetland Delineation Data Sheets

Routine Wetland Determination Form

Project/Site: Buckeye Wind Power Project ***Applicant/Owner:*** *Everpower Inc.* **Investigators:** K. Carr; S.M Harrelson	**Project #** EVP001	**Date:** 5/21/2008 **County:** Champaign **State:** Ohio

Do Normal circumstances exist on the site?	Yes	Sample Point # SP4a	
Is the site significantly disturbed (Atypical Situation)?	No	Site Location: Wetland J	
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):
- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Field Observations
- Total Depth of Pit or Auger: 12 *in.*
- Depth of Surface Water: 1 *in.*
- Depth to Free Water in Pit: - *in.*
- Depth to Saturated Soil: 0 *in.*

Wetland Hydrology Indicators
Primary Indicators
- ☒ Inundated
- ☒ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☒ FAC-Neutral Test
- ☐ Other(Explain in Remarks)

SOILS

Map Unit Name (Series and Phase):Algiers silt loam
Map Symbol:Ag Drainage Class: spd Map Unit Recognized as Hydric?: No
Taxonomy (Subgroup): Aquic Udifluvents Field Observations Confirm Mapped Type? No

Soil / Profile Description

Depth bgs (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle 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	silty clay loam

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer In Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ 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 #SP4a
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	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/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: Ever Power Project - Wetland M	**City/County:** Champaign	**Sampling Date:** 6/29/2011
Applicant/Owner: Ever Power Inc.	**State:** OH	**Sampling Point:** SP32
Investigator(s): B.M. Falkinburg / H.F. Crowell	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none): Concave

Slope (%): Lat: Long: Datum:

Soil Map Unit Name: BsA, Brookston silty clay loam, 0-2% slopes | NWI classification:

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

SUMMARY FINDINGS – Attach site map showing sampling 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: The required wetland criteria have been met.

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-) = 1/1 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: The hydrophytic vegetation criterion has been met.

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-1	2.5Y3 / 3	100					silt loam	
1-13	2.5Y4 / 2	80	7.5YR 3 / 4	20			silt loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type:

Depth: (inches):

Hydric Soil Present? Yes

Soil pit dug? Yes

(If yes select one): 1" Probe

Remarks: The Hydric Soil Criterion has been met.

Routine Wetland Determination Form

Sampling Date: 6/29/2011
Sampling Point: SP32

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☒ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	No	Depth (Inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ 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.

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			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: Ever Power Project - Wetland N	**City/County:** Champaign	**Sampling Date:** 6/29/2011
Applicant/Owner: Ever Power Inc.	**State:** OH	**Sampling Point:** SP33
Investigator(s): B.M. Falkinburg / H.F. Crowell	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): Swale | Local relief (concave, convex, none): Concave

Slope (%): Lat: Long: Datum:

Soil Map Unit Name: BsA, Brookston silty clay loam, 0-2% slopes | NWI classification:

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? No

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks).No

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

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

Remarks: Recently graded drainage swale (w/in 12 months) - man made or man-induced wetland comprised of a grassy waterway in agriculture field with dominance of hydrophytic vegetation and evidence of hydrology, but disturbed and mixed soils. BsA is an NRCS mapped hydric soil unit for Champaign County, Ohio. Thus, the required wetland criteria have been met.

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: 2 > 0 = Pass

Prevalence Index =

Remarks: The hydrophytic vegetation criterion has been met.

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12							silty clay loam	mixed sub/soil fill

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ *Stripped Matrix* (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☒ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Remarks: Sample Plot within a mapped hydric soil unit, soil sample mixed and disturbed, man-induced wetland per 1987 manual. Assumed hydric soils.

Routine Wetland Determination Form

Sampling Date: 6/29/2011
Sampling Point: SP33

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☒ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☒ Surface Soil Cracks (B6)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	No	Depth (Inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: The wetland hydrology criterion has been met.

Wetland appears to be non-isolated, outlets to wetland ditch in upland woods to east and eventually drains through agriculture fields off site to Stream S.

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

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Echinochloa muricata	FACW+	Herb	90	90%	Yes
Eleocharis obtusa	OBL	Herb	8	8%	
Carex squarrosa	FACW	Herb	2	2%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
Salix nigra	FACW+	Shrub/Sap	1	50%	Yes
Populus deltoides	FAC	Shrub/Sap	1	50%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	2		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase I	**City/County:** Champaign Co.	**Sampling Date:** 10/13/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP43
Investigator(s): BMF	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none): CONCAVE

Slope (%):0-2 Lat: 40.08898 Long: 83.603669 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: PEM1C

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland T, ten flags, isolated

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: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	2.5Y5 / 1	80	2.5Y4 / 2	20			SILT LOAM	DAMP
6-12	2.5Y4 / 1	90	2.5Y5 / 2	10			SILT LOAM	CONCENTRATIONS

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/13/11
Sampling Point: SP43

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☒ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (Includes capillary fringe)	No	Depth (Inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Three secondary indicators of wetland hydrology are present.

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

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			
		Herb			
		Herb			
		Herb			
		TDM=	100		
Acer saccharinum	FACW	Shrub/Sap	10	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	10		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase I	**City/County:** Champaign Co.	**Sampling Date:** 10/13/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP44
Investigator(s): BMF	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):0-2 Lat: 40.08450 Long: 83.601255 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland U, 5 flags, isolated

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-) = 2/2 = 75 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR 3 / 1	85	10YR 4 / 4	15			SILT LOAM	DAMP
7-12	2.5Y3 / 1	95	2.5Y5 / 3	5			SILTY CLAY	DAMP

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/13/11
Sampling Point: SP44

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	No	Depth (Inches):	**Wetland Hydrology Present?** 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.

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			
		Herb			
		Herb			
		Herb			
		TDM=	86		
Ulmus americana	FACW-	Shrub/Sap	3	100%	No
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	3		
Fraxinus pennsylvanica	FACW	Tree	1	100%	No
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	1		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase I	**City/County:** Champaign Co.	**Sampling Date:** 10/13/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP45
Investigator(s): BMF	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):0-3 Lat: 40.06022 Long: 83.60437 Datum: WGS 1984

Soil Map Unit Name: Wea silt loam | NWI classification: PEM1A

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland V, isolated

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-) = 2/2 = 100 %

FAC Neutral Test: 2 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3 / 1	100					silty clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ *Depleted Below* Dark Surface (A11)
- ☒ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(If yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/13/11
Sampling Point: SP45

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
☒ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☒ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches): 12"	
Water Table Present?	Yes	Depth (Inches): Surface	
Saturation Present? (includes capillary fringe)	Yes	Depth (Inches): Surface	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Four primary and one secondary indicator 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.

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			
		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/17/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP46
Investigator(s): BMF	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none): CONCAVE

Slope (%):0-2 Lat: 40.14753 Long: 83.620391 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: PEM1C

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

SUMMARY FINDINGS – Attach site map showing sampling 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: In a pasture, low spot, concave surface, isolated; Wetland W, 6 flags

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-) = 3/4 = 75 %

FAC Neutral Test: 3 > 1 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	2.5Y3 / 1	100					silt loam	damp

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☒ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(If yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/17/11
Sampling Point: SP46

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (inches):	
Water Table Present?	No	Depth (inches):	
Saturation Present? (includes capillary fringe)	No	Depth (inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Three secondary hydrologic indicators 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 STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Eleocharis obtusa	OBL	Herb	15	25%	Yes
Bidens cernua	OBL	Herb	15	25%	Yes
Polygonum hydropiperoides	OBL	Herb	15	25%	Yes
Echinochloa crusgalli	FACU	Herb	15	25%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	60		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/18/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP50
Investigator(s): BMF	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):0-2 Lat: 40.132701 Long: 83.645795 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: All three criteria met - wetland. Wetland Y, non-isolated, 39 flags
Linear ditch wetland

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-) = 1/1 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plany community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	2.5Y3 / 1	93	2.5Y6 / 4	2			silt loam	saturated
			2.5Y6 / 6	5				

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☒ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain In Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type: gravel
Depth: (inches): 7"

Hydric Soil Present? Yes
Soil pit dug? Yes
(If yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/18/11
Sampling Point: SP50

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
☒ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☒ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☒ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches): 1"	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (Includes capillary fringe)	Yes	Depth (Inches): 0-7"	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Three primary and three secondary hydrologic indicators are present

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

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	89	89%	Yes
Typha latifolia	OBL	Herb	5	5%	
Scirpus hattorianus	NI	Herb	1	1%	
Eleocharis obtusa	OBL	Herb	5	5%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/18/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP51
Investigator(s): BMF	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): swale | Local relief (concave, convex, none):

Slope (%):0-2 Lat: 40.133716 Long: 83.641995 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland Z, non-isolated, 13 flags

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-) = 1/1 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4 / 1	85	7.5YR 4 / 4	15			silt	damp, concentrations
8-10	2.5Y2.5 /1	50	5 / 1	30				5GY 5/1: redox color
			7.5YR 5 / 6	10				
			10YR 7 / 2	10				

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (If observed):
Type: gravel/sand
Depth: (inches): 10"

Remarks: Hydric soil is present

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Routine Wetland Determination Form

Sampling Date: 10/18/11
Sampling Point: SP51

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (Includes capillary fringe)	Yes	Depth (Inches): 12"	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Thress secondary hydrologic indicators are present

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #51
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	95	95%	Yes
Xanthium strumarium	FAC	Herb	2	2%	
Echinochloa muricata	FACW+	Herb	3	3%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/18/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP52
Investigator(s): BMF	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):0-2 Lat: 40.130755 Long: 83.639023 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: PSS1C

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland AA, isolated, 8 flags

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: 2 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	2.5Y5 / 2	85	10YR 5 / 6	15			silt loam	damp
3-10	4 / 1	60	7.5YR 4 / 6	40			silt loam	5Y 4/1:matrix color; damp
10-12	2.5Y4 / 1	80	10YR 5 / 4	20			silty clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type:

Depth: (inches):

Hydric Soil Present? Yes

Soil pit dug? Yes

(If yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/18/11
Sampling Point: SP52

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
☐ Surface Water (A1)	☒ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches):

Water Table Present? No Depth (Inches):

Saturation Present? (includes capillary fringe) No Depth (Inches): **Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: One primary and two secondary indicators present

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #52
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	100	100%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
Fraxinus pennsylvanica	FACW	Shrub/Sap	10	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	10		
Gleditsia triacanthos	FAC-	Tree	5	100%	Yes
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	5		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/18/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP53
Investigator(s): BMF	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none): concave

Slope (%):2-6 Lat: 40.129958 Long: 83.637266 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: PUBGh

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland BB, isolated, 11 flags

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-) = 2/2 = 100 %

FAC Neutral Test: 2 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	2.5Y3 / 1	100					silt loam	dry
6-12		90	10YR 5 / 4	5			silty clay	Gley N 3/ matrix color; distinct concentrations
			10YR 6 / 4	5			silty clay	distinct concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/18/11
Sampling Point: SP53

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
☒ Surface Water (A1)	☒ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☒ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches): N/A	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	Yes	Depth (Inches): surface	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Five primary and one secondary hydrologic indicator were present

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #53
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	95	95%	Yes
Xanthium strumarium	FAC	Herb	3	3%	
Toxicodendron radicans	FAC	Herb	2	2%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
Salix nigra	FACW+	Tree	25	83%	Yes
Populus deltoides	FAC	Tree	5	17%	
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	30		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/19/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP54
Investigator(s): BMF	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):0-2 Lat: 40.091213 Long: 83.573160 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland CC, non-isolated, 6 flags

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-) = 1/1 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic vegitation is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	2.5Y2.5 /1	100					silt loam	damp

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☒ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Remarks: Hydric soil is present

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Routine Wetland Determination Form

Sampling Date: 10/19/11
Sampling Point: SP54

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (Includes capillary fringe)	No	Depth (Inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Two secondary indicators of hydrology are present

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #54
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	99	99%	Yes
Apocynum cannabinum	FACU	Herb	1	1%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
Ulmus americana	FACW-	Shrub/Sap	1	33%	
Acer saccharinum	FACW	Shrub/Sap	2	67%	
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	3		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/19/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP55
Investigator(s): BMF	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): depression | Local relief (concave, convex, none): concave

Slope (%):2-6 Lat: 40.94638 Long: 83.565821 Datum: WGS 1984

Soil Map Unit Name: Miami Silt Loam | NWI classification: PSS1C

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland DD, isolated

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-) = 4/4 = 100 %

FAC Neutral Test: 2 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-1	2.5Y4 / 1	100						organics
1-9	10YR 5 / 2	70	10YR 5 / 8	30				dry/crumbly; distinct concentrations Fe & Mn
9-12	10YR 5 / 2	60	10YR 5 / 8	40				Distinct redox concent.

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (Inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(If yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/19/11
Sampling Point: SP55

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☒ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ *Drift Deposits (B2)*
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☒ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☒ Saturation Visible on Aerial Imagery (C9)
- ☒ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	No	Depth (Inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ *Stream, Lake, or Tide Gauge*
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: One primary and three secondary indicators of hydrology are present

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #55
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Toxicodendron radicans	FAC	Herb	10	100%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	10		
Fraxinus pennsylvanica	FACW	Shrub/Sap	5	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	5		
Populus deltoides	FAC	Tree	65	65%	Yes
Salix nigra	FACW+	Tree	25	25%	Yes
Fraxinus pennsylvanica	FACW	Tree	10	10%	
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	100		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/19/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP56
Investigator(s): BMF	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):2-6 Lat: 40.103479 Long: 83.55515 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: PEM1C

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland EE; non-isolated, 4 flags

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-) = 1/1 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plany community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features				Texture	Remarks
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]		
0-12	2.5 /	100					silty	Matrix color: Gley 2.5/ ; organic/sticky

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☒ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(If yes select one): 1" Probe

Remarks: Hydric soil is present

Routine Wetland Determination Form

Sampling Date: 10/19/11
Sampling Point: SP56

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
☒ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☒ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches): 1"	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	Yes	Depth (Inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Three primary and three secondary hydrologic indicators are present

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #56
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	65	65%	Yes
Typha latifolia	OBL	Herb	18	18%	
Carex stricta	OBL	Herb	15	15%	
Scirpus atrovirens	OBL	Herb	2	2%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 10/20/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP57
Investigator(s): BMF	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):0-2 Lat: 40.068687 Long: 83.624228 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland FF, adjacent, 22 flags

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-) = 2/2 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	2.5Y3 / 1	100					silty clay	
6-12	3 / 1	90	10YR 5 / 6	10			silty clay	Matrix color: 5Y 3/1; damp

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Remarks: Hydric soil is present

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Routine Wetland Determination Form

Sampling Date: 10/20/11
Sampling Point: SP57

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (Includes capillary fringe)	No	Depth (Inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Two secondary indicators of hydrology are present.

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #57
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	100	100%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
Populus deltoides	FAC	Shrub/Sap	5	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	5		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase I	**City/County:** Champaign Co.	**Sampling Date:** 10/20/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP58
Investigator(s): BMF	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):2-6 Lat: 40.06963 Long: 83.629194 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Linear wetland ditch; Wetland GG, 25 flagsHydrophytic plant community is present

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:

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	4 / 1	100					silt loam	Matrix color: 5Y 4/1; redox on roots

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☒ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Remarks: Hydric soil is present

Hydric Soil Present? Yes
Soil pit dug? Yes
(If yes select one): 1" Probe

Routine Wetland Determination Form

Sampling Date: 10/20/11
Sampling Point: SP58

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☒ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	Yes	Depth (Inches): surface	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: One primary and two secondary indicators 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.

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

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 12-12-11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP59
Investigator(s): BMF/KMH	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%): Lat: 40.13334 Long: 83.64951 Datum: WGS 1984

Soil Map Unit Name: | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland HH, non-isolated

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-) = 1/1 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	7.5YR 3 / 2	95	7.5YR 4 / 6	5	C	M	silt loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type:

Depth: (inches):

Hydric Soil Present? Yes

Soil pit dug? Yes

(if yes select one): 1" Probe

Remarks: Hydric soil is present by indicator F3

Routine Wetland Determination Form

Sampling Date: 12-12-11
Sampling Point: SP59

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	No	Depth (Inches):	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology is present by two secondary indicators.

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #59
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	100	100%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 12-12-11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP60
Investigator(s): BMF/KMH	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%): Lat: 40.127117 Long: 83.63632 Datum: WGS 1984

Soil Map Unit Name: | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland II, isolated

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-) = 1/1 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	7.5YR 3 / 2	93	7.5YR 5 / 8	5	C	M	silt loam	
			7.5YR 6 / 6	2	C	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type:

Depth: (inches):

Hydric Soil Present? Yes

Soil pit dug? Yes

(if yes select one): 1" Probe

Remarks: Hydric soil is present by indicator F3

Routine Wetland Determination Form

Sampling Date: 12-12-11
Sampling Point: SP60

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
☒ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches): 6	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (includes capillary fringe)	Yes	Depth (Inches): surface	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology is present by two primary indicators and two secondary indicators.

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #60
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Boehmeria cylindrica	FACW	Herb	98	98%	Yes
Setaria faberi	UPL	Herb	2	2%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase I	**City/County:** Champaign Co.	**Sampling Date:** 12/13/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP62
Investigator(s): BMF/KMH	**Section, Township, Range:** :	

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 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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland JJ, non-isolated NWI emergent wetland, 12 flags

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-) = 5/5 = 100 %

FAC Neutral Test: 3 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-1	10YR 2 / 1	100					organic	
1-10	10YR 4 / 1	90	7.5YR 5 / 6	10	C	M	silty clay	saturated

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Remarks: Hydric soil present - Indicator F3 (Depleted Matrix)

Routine Wetland Determination Form

Sampling Date: 12/13/11
Sampling Point: SP62

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
☒ Surface Water (A1)	☒ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☒ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches): 3	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (Includes capillary fringe)	Yes	**Depth (Inches):** surface	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology present - four primary indicators and one secondary indicator

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

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			
		Herb			
		Herb			
		Herb			
		TDM=	21		
Salix exigua	OBL	Shrub/Sap	50	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		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			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	60		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase I	**City/County:** Champaign Co.	**Sampling Date:** 12/13/11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP63
Investigator(s): BMF/KMH	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):0-2 Lat: 40.146375 Long: 83.58023 Datum: WGS 1984

Soil Map Unit Name: Brookston silty clay loam | NWI classification: PFO1A, PSS1C

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland KK, forrested NWI wetland, non-isolated, 12 flags

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-) = 7/7 = 100 %

FAC Neutral Test: 6 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-1	10YR 2 / 1	100					organic	Organic - A0
1-4	10YR 4 / 2	80	7.5YR 5 / 6	20	C	M	silty clay	
4-12	2.5Y5 / 2	85	10YR 5 / 6	15	C	M	silty clay	saturated

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(if yes select one): 1" Probe

Remarks: Hydric soil based on indicator F3-Depleted matrix

Routine Wetland Determination Form

Sampling Date: 12/13/11
Sampling Point: SP63

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☒ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☒ 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 (Inches):	
Water Table Present?	Yes	Depth (Inches): 7	
Saturation Present? (includes capillary fringe)	Yes	Depth (Inches): 7	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology is present - two primary indicators, one secondary indicator.

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			
		Herb			
		Herb			
		Herb			
		Herb			
		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
Carya 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		
Fraxinus pennsylvanica	FACW	Tree	30	67%	Yes
Quercus bicolor	FACW+	Tree	15	33%	Yes
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	45		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 12-13-11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP64
Investigator(s): BMF	**Section, Township, Range:** :	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%): Lat: 40.130271 Long: 83.589993 Datum: WGS 1984

Soil Map Unit Name: | NWI classification: None

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland LL, non-isolated

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-) = 1/1 = 100 %

FAC Neutral Test: 1 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	2.5YR 3 / 2	95	10YR 5 / 6	5	C	M	silt loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type:

Depth: (inches):

Remarks: Hydric soil present by indicator F6

Hydric Soil Present? Yes

Soil pit dug? Yes

(if yes select one): 1" Probe

Routine Wetland Determination Form

Sampling Date: 12-13-11
Sampling Point: SP64

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
☒ Surface Water (A1)	☒ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)
☒ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ 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 (Inches): 3	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (Includes capillary fringe)	Yes	Depth (Inches): surface	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology present by numerous indicators

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #64
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	95	95%	Yes
Ambrosia trifida	FAC	Herb	2	2%	
Asclepias incarnata	OBL	Herb	2	2%	
Scirpus atrovirens	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			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase II	**City/County:** Champaign Co.	**Sampling Date:** 12-13-11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP65
Investigator(s): BMF	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):6-12 Lat: 40.12493 Long: 83.573528 Datum: WGS 1984

Soil Map Unit Name: Miami Silt Loam | NWI classification: PEM1C, PUBGx

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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland MM, non-isolated

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-) = 2/2 = 100 %

FAC Neutral Test: 2 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 2 / 1	100					silt	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):
Type:
Depth: (inches):

Hydric Soil Present? Yes
Soil pit dug? Yes
(If yes select one): 1" Probe

Remarks: Hydric soil is present by indicator F3

Routine Wetland Determination Form

Sampling Date: 12-13-11
Sampling Point: SP65

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☒ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present?	No	Depth (Inches):	
Water Table Present?	No	Depth (Inches):	
Saturation Present? (Includes capillary fringe)	Yes	Depth (Inches): 6"	**Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology present by two primary indicators and one secondary indicator

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #65
Attachment to Routine Wetland Determination Data Form
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	FACW	Herb	95	95%	Yes
Epilobium coloratum	OBL	Herb	5	5%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
Acer saccharinum	FACW	Shrub/Sap	10	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	10		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

Routine Wetland Determination Form

Project/Site: EVP010 Phase I	**City/County:** Champaign Co.	**Sampling Date:** 12-14-11
Applicant/Owner: Everpower	**State:** OH	**Sampling Point:** SP66
Investigator(s): BMF	**Section, Township, Range: :**	

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%):2-6 Lat: 40.08736 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

SUMMARY FINDINGS – Attach site map showing sampling 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: Wetland NN, non-isolated

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-) = 8/8 = 100 %

FAC Neutral Test: 6 > 0 = Pass

Prevalence Index =

Remarks: Hydrophytic plant community is present

SOIL **LRR: M**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4 / 2	90	10YR 5 / 8	10	C	M	silt loam	saturated

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☒ Loamy Gleyed Matrix (F3)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type:

Depth: (inches):

Hydric Soil Present? Yes

Soil pit dug? Yes

(If yes select one): 1" Probe

Remarks: Hydric soil is present by indicator F3

Routine Wetland Determination Form

Sampling Date: 12-14-11
Sampling Point: SP66

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☒ Surface Water (A1)
- ☐ High Water Table (A2)
- ☒ Saturation (A3)
- ☒ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☒ Drift Deposits (B2)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☒ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☒ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☒ FAC-Neutral Test (D5)
- ☐ Other (Explain in Remarks)

Field Observations:

Surface Water Present? Yes — Depth (Inches): 3

Water Table Present? No — Depth (Inches):

Saturation Present? (Includes capillary fringe) Yes — Depth (Inches): surface — **Wetland Hydrology Present?** Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology is present by numerous indicators.

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

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			
		Herb			
		Herb			
		Herb			
		Herb			
		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			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	42		
Salix nigra	FACW+	Tree	35		Yes
Populus deltoides	FAC	Tree	20	36%	Yes
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	55		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

APPENDIX C

ORAM Data Sheets

Sheet 19

ORAM v. 5.0 Field Form Quantitative Rating

Site: EVP0001 Wetland J	Rater(s): S. Harrelson, H. Crowell	Date: 6/17/08

Metric 1. Wetland Area (size).

max 6 pts. | subtotal: 2 | 2

Select one size class and assign score.

2

- [ ] >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)
- [x] 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.

max 14 pts. | subtotal: 1 | 3

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

Ø

- [ ] 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)
- [x] VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average.

1

- [ ] 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. (3)
- [x] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

max 30 pts. | subtotal: 11.5 | 14.5

3a. Sources of Water. Score all that apply.

4

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [x] Precipitation (1)
- [x] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

Ø

- [ ] 100 year floodplain (1)
- [ ] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select only one and assign score.

1

- [ ] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [x] <0.4m (<15.7in) (1)

3d. Duration inundation/saturation. Score one or dbl check.

1.5

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [x] Seasonally inundated (2)
- [x] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

5

- [ ] None or none apparent (12)
- [x] Recovered (7)
- [x] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] ditch
- [x] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [x] other Agriculture

Metric 4. Habitat Alteration and Development.

max 20 pts. | subtotal: 6 | 20.5

4a. Substrate disturbance. Score one or double check and average.

2

- [ ] None or none apparent (4)
- [ ] Recovered (3)
- [x] Recovering (2)
- [ ] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

1

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [ ] Fair (3)
- [ ] Poor to fair (2)
- [x] Poor (1)

4c. Habitat alteration. Score one or double check and average.

3

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [x] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [x] farming
- [x] nutrient enrichment

subtotal this page: 20.5

ORAM v. 5.0 Field Form Quantitative Rating

Site: EVP0001 Wetland J	Rater(s): S. Harrelson, H. Crowell	Date: 6/17/08

20.5
subtotal this page

-10 | 10.5 **Metric 5. Special Wetlands.**

max 10 pts. | subtotal

Check all that apply and score as indicated.

-10

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Praires (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] *Significant migratory* songbird/water fowl habitat or usage (10)
- [x] Category 1 Wetland. See Question 1 Qualitative Rating (-10)

-3 | 7.5 **Metric 6. Plant communities, interspersion, microtopography.**

max 20 pts. | subtotal

6a. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.

1

- [ ] Aquatic bed
- [1] Emergent
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

6b. horizontal (plan view) Interspersion.
Select only one.

Ø

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [ ] Low (1)
- [x] None (0)

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

-5

- [x] Extensive >75% cover (-5) reed canary
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [ ] Nearly absent <5% cover (0)
- [ ] Absent (1)

6d. Microtopography.
Score all present using 0 to 3 scale.

1

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [1] Amphibian breeding pools

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

Category 1

7.5 **GRAND TOTAL(max 100 pts)**

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

ORAM v. 5.0 Field Form Quantitative Rating

Site: EVP007	Rater(s): BMF / HFC	Date: 6/29/11

WETLAND - M

Metric 1. Wetland Area (size).

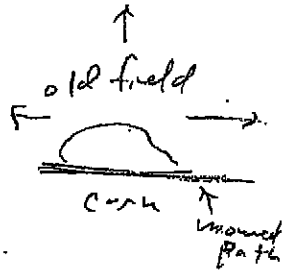
1 (max 6 pts.) | 1 (subtotal)

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)
- [x] 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.

7 (max 14 pts.) | 8 (subtotal)



2a. Calculate average buffer width. Select only one and assign score. Do not double check.

4

- [ ] WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- [x] 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.

3

- [ ] VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- [x] LOW. Old field (>10 years), shrub land, young second growth forest. (5)
- [ ] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [x] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

11 (max 30 pts.) | 19 (subtotal)

3a. Sources of Water. Score all that apply.

1

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [x] Precipitation (1)
- [ ] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

1

- [ ] 100 year floodplain (1)
- [ ] Between stream/lake and other human use (1)
- [x] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select only one and assign score.

1

- [ ] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [x] <0.4m (<15.7in) (1)

3d. Duration Inundation/saturation. Score one or dbl check.

1

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [x] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

7

- [ ] None or none apparent (12)
- [x] Recovered (7)
- [ ] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] ditch
- [ ] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [ ] other_____

Metric 4. Habitat Alteration and Development.

6 (max 20 pts.) | 25 (subtotal)

4a. Substrate disturbance. Score one or double check and average.

2

- [ ] None or none apparent (4)
- [ ] Recovered (3)
- [x] Recovering (2)
- [ ] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

1

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [ ] Fair (3)
- [ ] Poor to fair (2)
- [x] Poor (1)

4c. Habitat alteration. Score one or double check and average.

3

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [x] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [x] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [x] farming
- [x] nutrient enrichment

25 subtotal this page

last revised 1 February 2001 jjm

ORAM v. 5.0 Field Form Quantitative Rating

Site: EVP001	Rater(s): BMF/HFC	Date: 6/29/11

25
subtotal first page

WET-M

Metric 5. Special Wetlands.

-10 | 15
max 10 pts. | subtotal

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Prairies (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [x] Category 1 Wetland. See Question 1 Qualitative Rating (-10)

-10

Metric 6. Plant communities, interspersion, microtopography.

-4 | 11
max 20 pts. | subtotal

6a. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.

- [ ] Aquatic bed
- [x] Emergent (1)
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

6b. horizontal (plan view) Interspersion.
Select only one.

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [ ] Low (1) (0)
- [x] None (0)

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

- [x] Extensive >75% cover (-5) (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [ ] Nearly absent <5% cover (0)
- [ ] Absent (1)

6d. Microtopography.
Score all present using 0 to 3 scale.

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in) (0)
- [ ] Standing dead >25cm (10in) dbh
- [ ] Amphibian breeding pools

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

11

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM v. 5.0 Field Form Quantitative Rating

WETLAND N

Site: Ever Power - WET. N	Rater(s): BMF	Date: 6/29/11

Metric 1. Wetland Area (size).

max 6 pts. | subtotal: 0 | 0

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)
- [x] <0.1 acres (0.04ha) (0 pts)

Metric 2. Upland buffers and surrounding land use.

max 14 pts. | subtotal: 1 | 1

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

(0)

- [ ] 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)
- [x] VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average.

(1)

- [ ] VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- [ ] LOW. Old field (>10 years), shrub land, young second growth forest. (5)
- [ ] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [x] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

max 30 pts. | subtotal: 8 | 9

3a. Sources of Water. Score all that apply.

(4)

- [ ] High pH groundwater (5)
- [x] Other groundwater (3)
- [x] Precipitation (1)
- [ ] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

(1)

- [ ] 100 year floodplain (1)
- [x] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select only one and assign score.

(1)

- [ ] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [x] <0.4m (<15.7in) (1)

3d. Duration inundation/saturation. Score one or dbl check.

(1)

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [x] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

(1)

- [ ] None or none apparent (12)
- [ ] Recovered (7)
- [ ] Recovering (3)
- [x] Recent or no recovery (1)

Check all disturbances observed

- [x] ditch
- [ ] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [x] filling/grading
- [ ] road bed/RR track
- [x] dredging
- [ ] other_____

Metric 4. Habitat Alteration and Development.

max 20 pts. | subtotal: 4 | 1.3

4a. Substrate disturbance. Score one or double check and average.

(1)

- [ ] None or none apparent (4)
- [ ] Recovered (3)
- [ ] Recovering (2)
- [x] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

(2)

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [ ] Fair (3)
- [x] Poor to fair (2)
- [ ] Poor (1)

4c. Habitat alteration. Score one or double check and average.

(1)

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [ ] Recovering (3)
- [x] Recent or no recovery (1)

Check all disturbances observed

- [x] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [x] sedimentation
- [x] dredging
- [x] farming
- [x] nutrient enrichment

13

subtotal this page

last revised 1 February 2001 jim

ORAM v. 5.0 Field Form Quantitative Rating

Site: Evr-Power WET-N	Rater(s): BMF / HFC	Date: 6/29/2011

13 subtotal first page

Metric 5. Special Wetlands.

WETLAND N
6 flags
Abutting

0 max 10 pts. | 13 subtotal

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Prairies (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 1 Qualitative Rating (-10)

0

Metric 6. Plant communities, interspersion, microtopography.

1 max 20 pts. | 14 subtotal

6a. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.

- [ ] Aquatic bed
- [x] Emergent
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

1

6b. Horizontal (plan view) Interspersion.
Select only one.

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate.(3)
- [ ] Moderately low (2)
- [ ] Low (1)
- [x] None (0)

0

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

- [ ] Extensive >75% cover (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [x] Nearly absent <5% cover (0)
- [ ] Absent (1).

0

6d. Microtopography.
Score all present using 0 to 3 scale.

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [ ] Amphibian breeding pools

0

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

14

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM v. 5.0 Field Form Quantitative Rating

Site: EVER POWER	Rater(s): BMF	Date: 10/13/11

10 Flags
isolated
WETLAND T

Metric 1. Wetland Area (size).

max 6 pts. 1 | subtotal 1

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)
- [X] 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.

max 14 pts. 3 | subtotal 4

Soybean | Residents
typha angust.
typha lat.
SR-1-601

2a. Calculate average buffer width. Select only one and assign score. Do not double check. — 0

- [ ] 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)
- [X] VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average. — 3

- [ ] VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- [ ] LOW. Old field (>10 years), shrub land, young second growth forest. (5)
- [X] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [ ] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

max 30 pts. 4 | subtotal 8

3a. Sources of Water. Score all that apply. — 1

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [X] Precipitation (1)
- [ ] Seasonal/Intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply. — 0

- [ ] 100 year floodplain (1)
- [ ] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select only one and assign score. — 1

- [ ] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [X] <0.4m (<15.7in) (1)

3d. Duration inundation/saturation. Score one or dbl check. — 1

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [X] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average. — 1

- [ ] None or none apparent (12)
- [ ] Recovered (7)
- [ ] Recovering (3)
- [X] Recent or no recovery (1)

Check all disturbances observed

- [X] ditch
- [X] tile — tile blowout
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [ ] other________

Metric 4. Habitat Alteration and Development.

max 20 pts. 7 | subtotal 15

4a. Substrate disturbance. Score one or double check and average. — 2

- [ ] None or none apparent (4)
- [ ] Recovered (3)
- [X] Recovering (2)
- [ ] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score. — 2

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [ ] Fair (3)
- [X] Poor to fair (2)
- [ ] Poor (1)

4c. Habitat alteration. Score one or double check and average. — 3

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [X] Recovering (3)
- [ ] *Recent or no recovery (1)*

Check all disturbances observed

- [ ] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [X] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [X] farming
- [X] nutrient enrichment

15 — subtotal this page

last revised 1 February 2001 jjm

ORAM v. 5.0 Field Form Quantitative Rating

Site: EVER POWER Inter connect	Rater(s): B. FALKINBURG	Date: 10/13/11

15 subtotal first page

0	15
max 10 pts.	subtotal

Metric 5. Special Wetlands.

Wetland T.

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] Old growth forest (10)
- [ ] Mature forested wetland (6)
- [ ] Lake Erie coastal/tributary wetland-unrestricted hydrology (10)
- [ ] Lake Erie coastal/tributary wetland-restricted hydrology (5)
- [ ] Lake Plain Sand Prairies (Oak Openings) (10)
- [ ] Relict Wet Prairies (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 1 Qualitative Rating (-10)

-1	14
max 20 pts.	subtotal

Metric 6. Plant communities, interspersion, microtopography.

6a. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.

(1) 0

- [ ] Aquatic bed
- [x] Emergent
- [ ] Shrub
- [x] Forest — Saplings Silver maple Cottonwood
- [ ] Mudflats
- [ ] Open water
- [ ] Other _____

6b. Horizontal (plan view) Interspersion.
Select only one.

(1)

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [x] Low (1)
- [ ] None (0)

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

(-3)

- [ ] Extensive >75% cover (-5)
- [x] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [ ] Nearly absent <5% cover (0)
- [ ] Absent (1)

6d. Microtopography.
Score all present using 0 to 3 scale.

0

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [ ] Amphibian breeding pools

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

14

End of Quantitative Rating. Complete Categorization Worksheets.

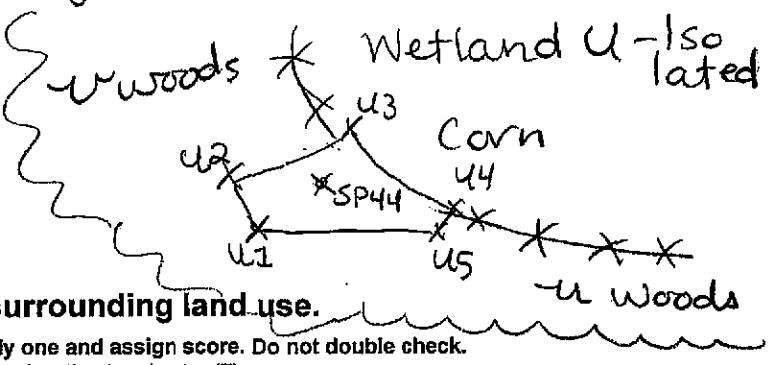
Site: Everpower	Rater(s): B. Falkinburg	Date: 10/13/11

Metric 1. Wetland Area (size).

0 | 0 (max 6 pts | subtotal)

Select one size class and assign score.

- [ ] >50 acres (>20.2ha) (6 pts)
- [ ] 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- [ ] 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)
- [X] <0.1 acres (0.04ha) (0 pts)



Metric 2. Upland buffers and surrounding land use.

4 | 5 (max 14 pts. | subtotal)

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- [ ] WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- [ ] MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- [X] NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- [ ] VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

(1)

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)
- [X] LOW. Old field (>10 years), shrubland, young second growth forest. (5)
- [ ] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [X] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

(3)

Metric 3. Hydrology.

6 | 10 (max 30 pts. | subtotal)

3a. Sources of Water. Score all that apply.

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [X] *Precipitation* (1)
- [ ] Seasonal/Intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

(1)

3b. Connectivity. Score all that apply.

- [ ] 100 year floodplain (1)
- [ ] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

(0)

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)

(1)

3d. Duration inundation/saturation. Score one or dbl check.

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [X] Seasonally saturated in upper 30cm (12in) (1)

(1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- [ ] None or none apparent (12)
- [ ] Recovered (7)
- [X] Recovering (3)
- [ ] Recent or no recovery (1)

(3)

Check all disturbances observed

- [ ] ditch
- [ ] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [ ] other_____

Metric 4. Habitat Alteration and Development.

8 | 18 (max 20 pts. | subtotal)

4a. Substrate disturbance. Score one or double check and average.

- [ ] None or none apparent (4)
- [ ] Recovered (3)
- [X] Recovering (2)
- [ ] Recent or no recovery (1)

(2)

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)

(3)

4c. Habitat alteration. Score one or double check and average.

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [X] Recovering (3)
- [ ] Recent or no recovery (1)

(3)

Check all disturbances observed

- [ ] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [ ] farming
- [ ] nutrient enrichment

18 (subtotal this page)

Site: Ever power	Rater(s): B. Falkinburg	Date: 10/13/11

18 subtotal this page

Wetland A

0 (max 10 pts.) | 18 (subtotal)

Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Praires (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 5 Qualitative Rating (-10)

2 (max 20pts.) | 20 (subtotal)

Metric 6. Plant communities, interspersion, microtopography.

6a. Wetland Vegetation Communities.

Score all present using 0 to 3 scale.

(2)

- [ ] Aquatic bed
- [2] Emergent
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's 1 vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's 2 vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's 3 vegetation and is of high quality

6b. horizontal (plan view) Interspersion.

Select only one.

(0)

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [ ] Low (1)
- [X] None (0)

Narrative Description of Vegetation Quality

Low spp diversity and/or predominance of nonnative or low disturbance tolerant native species
Native spp are dominant component of the vegetation, mod although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp to
A predominance of native species, with nonnative spp high and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

6c. Coverage of invasive plants. Refer Table 1 ORAM long form for list. Add or deduct points for coverage

(0)

- [ ] Extensive >75% cover (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [X] Nearly absent <5% cover (0)
- [ ] Absent (1)

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

6d. Microtopography.

Score all present using 0 to 3 scale.

(0)

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [ ] Amphibian breeding pools

Microtopography Cover Scale

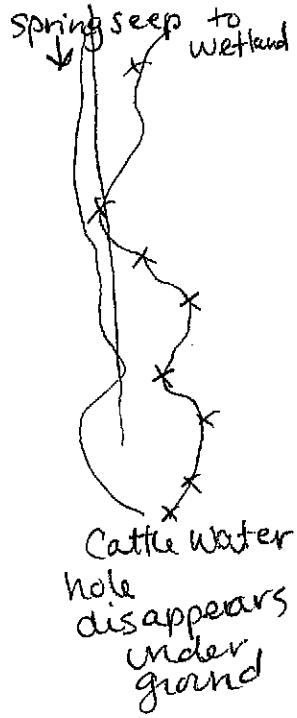
0	Absent
1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

20 **GRAND TOTAL(max 100 pts)**

last revised 1 February 2001 jjm

Site: Everpower	Rater(s): BMF	Date: 10/13/11

Wetland V
Isolated



Metric 1. Wetland Area (size).

1 | 1 (max 6 pts | subtotal)

Select one size class and assign score.

- [ ] >50 acres (>20.2ha) (6 pts)
- [ ] 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- [ ] 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)
- [X] 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)
- [ ] <0.1 acres (0.04ha) (0 pts)

(1)

Metric 2. Upland buffers and surrounding land use.

1 | 2 (max 14 pts. | subtotal)

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- [ ] WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- [ ] MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- [ ] NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- [X] VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

(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), shrubland, young second growth forest. (5)
- [ ] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [X] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

(1)

Metric 3. Hydrology.

15 | 17 (max 30 pts. | subtotal)

3a. Sources of Water. Score all that apply.

- [ ] High pH groundwater (5)
- [X] Other groundwater (3)
- [X] Precipitation (1)
- [ ] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

(4)

3b. Connectivity. Score all that apply.

- [ ] 100 year floodplain (1)
- [ ] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

(0)

3c. Maximum water depth. Select one.

- [ ] >0.7 (27.6in) (3)
- [X] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [ ] <0.4m (<15.7in) (1)

(2)

3d. Duration inundation/saturation. Score one or dbl check.

- [X] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [ ] Seasonally saturated in upper 30cm (12in) (1)

(4)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- [ ] None or none apparent (12)
- [X] Recovered (7)
- [X] Recovering (3)
- [ ] Recent or no recovery (1)

(5)

Check all disturbances observed

- [X] ditch
- [X] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [X] road bed/RR track
- [ ] dredging
- [X] other watering hole for cattle

Metric 4. Habitat Alteration and Development.

5 | 22 (max 20 pts. | subtotal)

4a. Substrate disturbance. Score one or double check and average.

- [ ] None or none apparent (4)
- [ ] Recovered (3)
- [ ] Recovering (2)
- [X] Recent or no recovery (1)

(1)

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)

(3)

4c. Habitat alteration. Score one or double check and average.

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [ ] Recovering (3)
- [X] Recent or no recovery (1)

(1)

Check all disturbances observed

- [ ] mowing
- [X] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [X] farming
- [X] nutrient enrichment

22 (subtotal this page)

Site: Everpower	Rater(s): BMF	Date: 10/13/11

Wetland V

22 subtotal this page

0 (max 10 pts.) | 22 (subtotal)

Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Praires (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 5 Qualitative Rating (-10)

0

3 (max 20pts.) | 25 (subtotal)

Metric 6. Plant communities, interspersion, microtopography.

6a. Wetland Vegetation Communities.

Score all present using 0 to 3 scale.

- [ ] Aquatic bed
- [1] Emergent
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

1

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's 1 vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's 2 vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's 3 vegetation and is of high quality

6b. horizontal (plan view) Interspersion.

Select only one.

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [ ] Low (1)
- [X] None (0)

0

Narrative Description of Vegetation Quality

Low spp diversity and/or predominance of nonnative or low disturbance tolerant native species
Native spp are dominant component of the vegetation, mod although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp to
A predominance of native species, with nonnative spp high and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

6c. Coverage of invasive plants. Refer

Table 1 ORAM long form for list. Add or deduct points for coverage

- [ ] Extensive >75% cover (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [X] Nearly absent <5% cover (0)
- [ ] Absent (1)

0

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

6d. Microtopography.

Score all present using 0 to 3 scale.

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [2] Amphibian breeding pools

2

Microtopography Cover Scale

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

25 **GRAND TOTAL(max 100 pts)**

last revised 1 February 2001 jjm

ORAM v. 5.0 Field Form Quantitative Rating

Site: Everpower	Rater(s): BMF	Date: 10/17/11

Metric 1. Wetland Area (size).

max 6 pts. | subtotal 1 | 1

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)*
- [x] 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)
- [ ] <0.1 acres (0.04ha) (0 pts)

(1)

Wetland W isolated 6 flags

Metric 2. Upland buffers and surrounding land use.

max 14 pts. | subtotal 1 | 2

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- [ ] *WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)*
- [ ] MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- [ ] NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- [x] VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

(1)

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), shrubland, young second growth forest. (5)
- [ ] *MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field.* (3)
- [x] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

max 30 pts. | subtotal 4 | 6

3a. Sources of Water. Score all that apply.

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [x] Precipitation (1)
- [ ] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

- [ ] 100 year floodplain (1)
- [ ] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select only one and assign score.

- [ ] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [x] <0.4m (<15.7in) (1)

3d. Duration inundation/saturation. Score one or dbl check.

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [x] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- [ ] None or none apparent (12)
- [ ] Recovered (7)
- [ ] Recovering (3)
- [x] Recent or no recovery (1)

Check all disturbances observed

- [x] ditch into wetland from ag field
- [ ] tile
- [ ] dike
- [ ] weir
- [ ] *stormwater input*
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [ ] other_____

Metric 4. Habitat Alteration and Development.

max 20 pts. | subtotal 3 | 9

4a. Substrate disturbance. Score one or double check and average.

- [ ] None or none apparent (4)
- [ ] Recovered (3)
- [ ] Recovering (2)
- [x] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [ ] *Fair (3)*
- [ ] Poor to fair (2)
- [x] Poor (1)

4c. Habitat alteration. Score one or double check and average.

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [ ] Recovering (3)
- [x] Recent or no recovery (1)

Check all disturbances observed

- [ ] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [ ] farming
- [ ] nutrient enrichment

9

subtotal this page

ORAM v. 5.0 Field Form Quantitative Rating

Site: Ever Power	Rater(s): BM F	Date: 10/17/11

Wetland W
Isolated
6 flags

9
subtotal this page

0	9
max 10 pts.	subtotal

Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Praires (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 1 Qualitative Rating (-10)

1	10
max 20 pts.	subtotal

Metric 6. Plant communities, interspersion, microtopography.

6a. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.

- [ ] Aquatic bed
- [ ] Emergent
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

1

6b. horizontal (plan view) Interspersion.
Select only one.

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [ ] Low (1)
- [x] None (0)

0

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

- [ ] Extensive >75% cover (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [x] Nearly absent <5% cover (0)
- [ ] Absent (1)

0

6d. Microtopography.
Score all present using 0 to 3 scale.

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [ ] Amphibian breeding pools

0

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

10	GRAND TOTAL(max 100 pts)

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

Site: Everpower	Rater(s): BMF	Date: 10/18/11

Wetland Y
Non-isolated
39 flags
drains to stream offsite

Metric 1. Wetland Area (size).

2 | 2 (max 6 pts | subtotal)

Select one size class and assign score.

- [ ] >50 acres (>20.2ha) (6 pts)
- [ ] 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- [ ] 10 to <25 acres (4 to <10.1ha) (4 pts)
- [ ] 3 to <10 acres (1.2 to <4ha) (3 pts)
- [X] 0.3 to <3 acres (0.12 to <1.2ha) (2pts) (2)
- [ ] 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.

3 | 5 (max 14 pts. | subtotal)

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- [ ] WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- [ ] MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- [ ] NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- [X] VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) (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), shrubland, young second growth forest. (5)
- [ ] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) (3)
- [ ] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

10 | 15 (max 30 pts. | subtotal)

3a. Sources of Water. Score all that apply.

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [X] Precipitation (1) (1)
- [ ] Seasonal/Intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

- [ ] 100 year floodplain (1)
- [X] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [X] Part of riparian or upland corridor (1) (2)

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) (1)

3d. Duration inundation/saturation. Score one or dbl check.

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [X] Seasonally saturated in upper 30cm (12in) (1) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- [ ] None or none apparent (12)
- [X] Recovered (7)
- [X] Recovering (3) (5)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [X] ditch
- [X] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [ ] other_____

Metric 4. Habitat Alteration and Development.

9 | 24 (max 20 pts. | subtotal)

4a. Substrate disturbance. Score one or double check and average.

- [ ] None or none apparent (4)
- [X] Recovered (3)
- [X] Recovering (2) (2.5)
- [ ] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4) (2)
- [ ] Fair (3)
- [X] Poor to fair (2)
- [ ] Poor (1)

4c. Habitat alteration. Score one or double check and average.

- [ ] None or none apparent (9)
- [X] Recovered (6)
- [X] Recovering (3) (4.5)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [ ] farming
- [ ] nutrient enrichment

24 (subtotal this page)

Site: Everpower	Rater(s): BMF	Date: 10/18/11

Wetland 4

24 subtotal this page

0 max 10 pts. | 24 subtotal

Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Praires (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 5 Qualitative Rating (-10)

2 max 20pts. | 26 subtotal

Metric 6. Plant communities, interspersion, microtopography.

6a. Wetland Vegetation Communities.

Score all present using 0 to 3 scale.

- [ ] Aquatic bed
- [1] Emergent
- [1] Shrub (3)
- [1] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

6b. horizontal (plan view) Interspersion.

Select only one.

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [X] Moderately low (2) (2)
- [ ] Low (1)
- [ ] None (0)

6c. Coverage of invasive plants. Refer Table 1 ORAM long form for list. Add or deduct points for coverage

- [X] Extensive >75% cover (-5) phalaris (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [ ] Nearly absent <5% cover (0)
- [ ] Absent (1)

6d. Microtopography.

Score all present using 0 to 3 scale.

- [ ] Vegetated hummucks/tussucks
- [1] Coarse woody debris >15cm (6in) (2)
- [ ] Standing dead >25cm (10in) dbh
- [1] Amphibian breeding pools

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's 1 vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's 2 vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's 3 vegetation and is of high quality

Narrative Description of Vegetation Quality

Low spp diversity and/or predominance of nonnative or low disturbance tolerant native species
Native spp are dominant component of the vegetation, mod although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp to
A predominance of native species, with nonnative spp high and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

26 **GRAND TOTAL(max 100 pts)**

last revised 1 February 2001 jjm

ORAM v. 5.0 Field Form Quantitative Rating

WETLAND Z

Site: EVP 010	Rater(s): B. FALKINBURG	Date: 10/18/11

Metric 1. Wetland Area (size).

0 | 0 (max 6 pts. | subtotal)

Non-isolated
13 flags

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)
- [x] <0.1 acres (0.04ha) (0 pts)

Metric 2. Upland buffers and surrounding land use.

3 | 3 (max 14 pts. | subtotal)

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

0

- [ ] 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)
- [x] VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average.

3

- [ ] VERY LOW. *2nd growth or older forest, prairie, savannah, wildlife area, etc.* (7)
- [ ] LOW. Old field (>10 years), shrub land, young second growth forest. (5)
- [x] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [ ] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

5 | 8 (max 30 pts. | subtotal)

3a. Sources of Water. Score all that apply.

1

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [x] Precipitation (1)
- [ ] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

1

- [ ] 100 year floodplain (1)
- [x] *Between stream/lake and other human use* (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select only one and assign score.

1

- [ ] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [x] <0.4m (<15.7in) (1)

3d. Duration inundation/saturation. Score one or dbl check.

1

- [ ] Seml- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [x] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

1

- [ ] None or none apparent (12)
- [ ] Recovered (7)
- [ ] Recovering (3)
- [x] Recent or no recovery (1)

Check all disturbances observed

- [x] ditch
- [ ] tile
- [x] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [ ] other_____

Metric 4. Habitat Alteration and Development.

4 | 12 (max 20 pts. | subtotal)

4a. Substrate disturbance. Score one or double check and average.

2

- [ ] None or none apparent (4)
- [ ] Recovered (3)
- [x] Recovering (2)
- [ ] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

1

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [ ] Fair (3)
- [ ] Poor to fair (2)
- [x] Poor (1)

4c. Habitat alteration. Score one or double check and average.

1

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [ ] *Recovering (3)*
- [x] Recent or no recovery (1)

Check all disturbances observed

- [x] mowing
- [ ] *grazing*
- [ ] clearcutting
- [x] selective cutting
- [x] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] *herbaceous/aquatic bed removal*
- [ ] sedimentation
- [x] dredging
- [x] farming
- [ ] nutrient enrichment
- [x] herbicide app.

12 subtotal this page

Wetland 2

ORAM v. 5.0 Field Form Quantitative Rating

Site: EVP	Rater(s): BMF	Date: 10/18/11

12 subtotal first page

Metric 5. Special Wetlands.

0 max 10 pts. | 12 subtotal

Non-isolated - flows into a Field tile at western end of wetland

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Prairies (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 1 Qualitative Rating (-10)

Metric 6. Plant communities, interspersion, microtopography.

-3 max 20 pts. | 9 subtotal

6a. Wetland Vegetation Communities. Score all present using 0 to 3 scale.

1 0

- [ ] Aquatic bed
- [X] Emergent
- [X] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

6b. horizontal (plan view) Interspersion. Select only one.

1

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [X] Low (1)
- [ ] None (0)

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

-5

- [X] Extensive >75% cover (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [ ] Nearly absent <5% cover (0)
- [ ] Absent (1)

95% phalaris

6d. Microtopography. Score all present using 0 to 3 scale.

0

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [ ] Amphibian breeding pools

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

9

End of Quantitative Rating. Complete Categorization Worksheets.

Site: Everpower	Rater(s): BMF	Date: 10/18/11

Wetland AA non-isolated

Metric 1. Wetland Area (size).

2 | 2 (max 6 pts | subtotal)

Select one size class and assign score.

- [ ] >50 acres (>20.2ha) (6 pts)
- [ ] 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- [ ] 10 to <25 acres (4 to <10.1ha) (4 pts)
- [ ] 3 to <10 acres (1.2 to <4ha) (3 pts)
- [x] 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.

5 | 7 (max 14 pts. | subtotal)

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

(1)

- [ ] WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- [ ] MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- [x] 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.

(4)

- [ ] VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- [x] LOW. Old field (>10 years), shrubland, young second growth forest. (5)
- [x] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [ ] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

9 | 16 (max 30 pts. | subtotal)

3a. Sources of Water. Score all that apply.

(1)

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [x] Precipitation (1)
- [ ] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

(1)

- [ ] 100 year floodplain (1)
- [ ] Between stream/lake and other human use (1)
- [x] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select one.

(1)

- [ ] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [x] <0.4m (<15.7in) (1)

3d. Duration inundation/saturation. Score one or dbl check.

(1)

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [x] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

(5)

- [ ] None or none apparent (12)
- [x] Recovered (7)
- [x] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] ditch
- [x] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [ ] other_____

Metric 4. Habitat Alteration and Development.

9.5 | 25.5 (max 20 pts. | subtotal)

4a. Substrate disturbance. Score one or double check and average.

(3)

- [ ] None or none apparent (4)
- [x] Recovered (3)
- [ ] Recovering (2)
- [ ] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

(2)

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [ ] Fair (3)
- [x] Poor to fair (2)
- [ ] Poor (1)

4c. Habitat alteration. Score one or double check and average.

(4.5)

- [ ] None or none apparent (9)
- [x] Recovered (6)
- [x] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] mowing
- [ ] grazing
- [x] clearcutting
- [x] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [x] farming
- [ ] nutrient enrichment

25.5 (subtotal this page)

Site: Everpower	Rater(s): BMF	Date: 10/18/11

25.5
subtotal this page

WetlandAA

0 | 25.5
max 10 pts. | subtotal

Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Praires (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 5 Qualitative Rating (-10)

-2 | 23.5
max 20pts. | subtotal

Metric 6. Plant communities, interspersion, microtopography.

6a. Wetland Vegetation Communities.

Score all present using 0 to 3 scale.

(1)

- [ ] Aquatic bed
- [ ] Emergent
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's 1 vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's 2 vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's 3 vegetation and is of high quality

6b. horizontal (plan view) Interspersion.

Select only one.

(1)

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [X] Low (1)
- [ ] None (0)

Narrative Description of Vegetation Quality

Low spp diversity and/or predominance of nonnative or low disturbance tolerant native species
Native spp are dominant component of the vegetation, mod although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp to
A predominance of native species, with nonnative spp high and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

6c. Coverage of invasive plants. Refer

Table 1 ORAM long form for list. Add or deduct points for coverage

(-5)

- [X] Extensive >75% cover (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [ ] Nearly absent <5% cover (0)
- [ ] Absent (1)

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

6d. Microtopography.

Score all present using 0 to 3 scale.

phalaris

(1)

- [ ] Vegetated hummucks/tussucks
- [X] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [ ] Amphibian breeding pools

Microtopography Cover Scale

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

23.5 **GRAND TOTAL(max 100 pts)**

last revised 1 February 2001 jjm

ORAM v. 5.0 Field Form Quantitative Rating

Site: Everpower	Rater(s): BMF	Date: 10/18/11

Metric 1. Wetland Area (size).

max 6 pts, subtotal: 2 | 2

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)
- [x] 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)

Wetland BB
11 flags
Isolated

Metric 2. Upland buffers and surrounding land use.

max 14 pts, subtotal: 3 | 5

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- [ ] WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- [ ] MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- [ ] NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- [x] 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), shrubland, young second growth forest. (5)
- [x] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [ ] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

max 30 pts, subtotal: 15 | 20

3a. Sources of Water. Score all that apply.

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [x] Precipitation (1)
- [ ] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

- [ ] 100 year floodplain (1)
- [ ] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select only one and assign score.

- [x] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [ ] <0.4m (<15.7in) (1)

3d. Duration inundation/saturation. Score one or dbl check.

- [x] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [ ] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- [ ] None or none apparent (12)
- [x] Recovered (7)
- [ ] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] ditch
- [ ] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [ ] other_____

Metric 4. Habitat Alteration and Development.

max 20 pts, subtotal: 12 | 32

4a. Substrate disturbance. Score one or double check and average.

- [ ] None or none apparent (4)
- [x] Recovered (3)
- [ ] Recovering (2)
- [ ] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [x] Fair (3)
- [ ] Poor to fair (2)
- [ ] Poor (1)

4c. Habitat alteration. Score one or double check and average.

- [ ] None or none apparent (9)
- [x] Recovered (6)
- [ ] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [ ] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [ ] farming
- [ ] nutrient enrichment

32
subtotal this page

ORAM v. 5.0 Field Form Quantitative Rating

Site: Everpower	Rater(s): BMF	Date: 10/18/11

32
subtotal this page

Wetland BB

0 | 32 **Metric 5. Special Wetlands.**

max 10 pts. | subtotal

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Praires (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 1 Qualitative Rating (-10)

0

4 | 36 **Metric 6. Plant communities, interspersion, microtopography.**

max 20 pts. | subtotal

6a. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.

- [ ] Aquatic bed
- [ ] Emergent
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other_____

2

6b. horizontal (plan view) Interspersion.
Select only one.

- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [x] Moderately low (2)
- [ ] Low (1)
- [ ] None (0)

2

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

- [ ] Extensive >75% cover (-5)
- [x] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [ ] Nearly absent <5% cover (0)
- [ ] Absent (1)

(-3)

6d. Microtopography.
Score all present using 0 to 3 scale.

- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [3] Amphibian breeding pools

3

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

36 **GRAND TOTAL(max 100 pts)**

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

ORAM v. 5.0 Field Form Quantitative Rating

Site: EVER POWER PH. 2 | Rater(s): B. M FALKENBURG | Date: 10/19/11

WETLAND: CC

ISOLATED or ADJACENT

# of flags: 6

SIZE in Ac.: 2.10

Metric 1. Wetland Area (size).

1 | 1 (max 6 pts. | subtotal)

Select one size class and assign score.

- [ ] >50 acres (>20.2ha) (6 pts)
- [ ] 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- [ ] 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)
- [X] 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.

10 | 11 (max 14 pts. | subtotal)

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- [ ] WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- [X] 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.

- [X] VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- [X] LOW. Old field (>10 years), shrubland, young second growth forest. (5)
- [ ] MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- [ ] HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

Metric 3. Hydrology.

6 | 17 (max 30 pts. | subtotal)

3a. Sources of Water. Score all that apply.

- [ ] High pH groundwater (5)
- [ ] Other groundwater (3)
- [X] Precipitation (1)
- [ ] Seasonal/intermittent surface water (3)
- [ ] Perennial surface water (lake or stream) (5)

3b. Connectivity. Score all that apply.

- [ ] 100 year floodplain (1)
- [X] Between stream/lake and other human use (1)
- [ ] Part of wetland/upland (e.g. forest), complex (1)
- [ ] Part of riparian or upland corridor (1)

3c. Maximum water depth. Select only one and assign score.

- [ ] >0.7 (27.6in) (3)
- [ ] 0.4 to 0.7m (15.7 to 27.6in) (2)
- [X] <0.4m (<15.7in) (1)

3d. Duration inundation/saturation. Score one or dbl check.

- [ ] Semi- to permanently inundated/saturated (4)
- [ ] Regularly inundated/saturated (3)
- [ ] Seasonally inundated (2)
- [X] Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- [ ] None or none apparent (12)
- [ ] Recovered (7)
- [X] Recovering (3)
- [ ] Recent or no recovery (1)

Check all disturbances observed

- [ ] ditch
- [ ] tile
- [ ] dike
- [ ] weir
- [ ] stormwater input
- [ ] point source (nonstormwater)
- [ ] filling/grading
- [ ] road bed/RR track
- [ ] dredging
- [X] other Ruts / Mowing

Metric 4. Habitat Alteration and Development.

5.5 | 22.5 (max 20 pts. | subtotal)

4a. Substrate disturbance. Score one or double check and average.

- [ ] None or none apparent (4)
- [X] Recovered (3)
- [X] Recovering (2)
- [ ] Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

- [ ] Excellent (7)
- [ ] Very good (6)
- [ ] Good (5)
- [ ] Moderately good (4)
- [ ] Fair (3)
- [ ] Poor to fair (2)
- [X] Poor (1)

4c. Habitat alteration. Score one or double check and average.

- [ ] None or none apparent (9)
- [ ] Recovered (6)
- [X] Recovering (3)
- [X] Recent or no recovery (1)

Check all disturbances observed

- [X] mowing
- [ ] grazing
- [ ] clearcutting
- [ ] selective cutting
- [ ] woody debris removal
- [ ] toxic pollutants
- [X] shrub/sapling removal
- [ ] herbaceous/aquatic bed removal
- [ ] sedimentation
- [ ] dredging
- [ ] farming
- [ ] nutrient enrichment

22.5 subtotal this page

Site: EVER POWER PH 2 | Rater(s): BRAD FALKINBURG | Date: 10/19/11

WETLAND: CC

21.5 ✓ subtotal this page

0 | 21.5 ✓ max 10 pts. | subtotal

Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- [ ] Bog (10)
- [ ] Fen (10)
- [ ] 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)
- [ ] Relict Wet Prairies (10)
- [ ] Known occurrence state/federal threatened or endangered species (10)
- [ ] Significant migratory songbird/water fowl habitat or usage (10)
- [ ] Category 1 Wetland. See Question 1 Qualitative Rating (-10)

-4 | 17.5 ✓ max 20 pts. | subtotal

Metric 6. Plant communities, interspersion, microtopography.

6a. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.

(1)
- [ ] Aquatic bed
- [x] Emergent
- [ ] Shrub
- [ ] Forest
- [ ] Mudflats
- [ ] Open water
- [ ] Other _____

6b. horizontal (plan view) Interspersion.
Select only one.

(0)
- [ ] High (5)
- [ ] Moderately high(4)
- [ ] Moderate (3)
- [ ] Moderately low (2)
- [ ] Low (1)
- [x] None (0)

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

(-5)
- [x] Extensive >75% cover (-5)
- [ ] Moderate 25-75% cover (-3)
- [ ] Sparse 5-25% cover (-1)
- [ ] Nearly absent <5% cover (0)
- [ ] Absent (1)

6d. Microtopography.
Score all present using 0 to 3 scale.

(0)
- [ ] Vegetated hummucks/tussucks
- [ ] Coarse woody debris >15cm (6in)
- [ ] Standing dead >25cm (10in) dbh
- [ ] Amphibian breeding pools

Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality.

Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

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

17.5 ✓ GRAND TOTAL(max 100 pts)

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

Summary: Application of Champaign Wind LLC, Vol II, Part 6 electronically filed by Mr. Michael J. Settineri on behalf of Champaign Wind LLC