Project/Site: FORD COVE RESTORATION City/C	GROSSE POINTESHORES  Sampling Date: 8:2:21				
	State: WT Sampling Point: \$1				
Total Control					
Investigator(s): LIDE ROSE, JOHN BARBATANO Section					
Landform (hillslope, terrace, etc.): No N∈ Local rel					
Subregion (LRR or MLRA): <u>LRRL</u> Lat: <u>42.458102</u>					
Soil Map Unit Name: Zfsha A ZIEGENFUSS SAND	SY LOAM NWI classification: NONE				
Are climatic / hydrologic conditions on the site typical for this time of year?	res No X (If no, explain in Remarks.)				
Are Vegetation N, Soil N, or Hydrology N significantly distur					
Are Vegetation N, Soil N, or Hydrology N naturally problems					
	npling point locations, transects, important features, etc.				
	Is the Sampled Area				
Hydrophytic Vegetation Present? Yes X No	within a Wetland? Yes X No				
Hydric Soil Present? Yes X No	100 (100 to 100				
Wetland Hydrology Present? Yes No  Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leave	es (B9) Drainage Patterns (B10)				
	Moss Trim Lines (B16)				
★ Saturation (A3)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Od					
Sediment Deposits (B2) Oxidized Rhizospher					
Drift Deposits (B3) Presence of Reduced					
Algal Mat or Crust (B4) Recent Iron Reductio	_ · · · — · · · · · ·				
Iron Deposits (B5) Thin Muck Surface (C					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer Sparsely Vegetated Concave Surface (B8)	(s) Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Field Observations:	TAC-Neural Test (DS)				
Surface Water Present? Yes No _X_ Depth (inches):					
Water Table Present? Yes X No Depth (inches): 8					
Saturation Present? Yes X No Depth (inches): O	Wetland Hydrology Present? Yes X No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), ir available:				
Li					
Remarks: WETS DATA FIROM THE GROSSE F	OTAT FARMS STATION INDICATE				
CONDITIONS ARE WETTER THAN HIST	CRITICAL AVENRACES FOR THE PREVIOUS				
3 MONTHS.					
e:					
×					
	,				

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30		Species?		Number of Dominant Species
1. ACER SACCHARINUM	_50_	<u> </u>	FACW	That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	<u>50</u>	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. FRANTOUS PENUSYLVANICA	10	<u> </u>	FACW	FAC species x 3 =
2.				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7-				★ 2 - Dominance Test is >50%
	_10_	= Total Cov	өг	3 - Prevalence Index is ≤3.0¹
1. LYCOPUS AMERICANUS	5	U	OR.	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. CALTHA PALUSTRES				Problematic Hydrophytic Vegetation¹ (Explain)
3. PERSICARIA AMPHIBIA				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				Definitions of Vegetation Strata:
5				
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
8			) <del></del> -	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater than or squar to 0.25 ft (1 m) tail.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				size, and woody plants less than 3.26 it tall.
				Woody vines – All woody vines greater than 3.28 ft in
12	17			height.
Poder in that entire reveals into 120		= Total Cov	er	
Woody Vine Stratum (Plot size:3O)				
1NA	0			No. december 47
2				Hydrophytic Vegetation
3				Present? Yes 🗶 No
4.				
	0	= Total Cov	ег	
Remarks: (Include photo numbers here or on a separate	sheet.)			
, 100 mg	•			

Sampling	Point:	21
Sampling	Point:	2 T

Profile Des	cription: (Describe	to the dep	oth needed to docum	nent the i	ndicator	or confirm	the absence of indi	cators.)
Depth	Matrix			x Features	<u> </u>	. 2		
(inches)	Color (moist)	_ %	Color (moist)		Type	_Loc <sup>2</sup>		Remarks
2-6	10482/1	100	***************************************				CLAY	
	1048 4/1	100					Cary	
6-12	1045 2/1	100			_	_	CLAY	
	***				-			
	***************************************				-	***************************************		
					-			
	<del></del>	10						
			i <del></del> 3		-			
¹Type: C=C	oncentration D=Der	letion RM	=Reduced Matrix, MS		Sand Gra	ine	2l ocation: PI =P	ore Lining, M=Matrix.
Hydric Soil		Jietion, Kivi	-reduced Matrix, Mo	-washcu	Janu Gra	mis.		blematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Below		(S8) ( <b>LRR</b>	R,		10) (LRR K, L, MLRA 149B)
	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surface		DD D MI	DA 440D)		Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky M					(S7) (LRR K, L, M)
Stratified	d Layers (A5)		Loamy Gleyed N			,		ow Surface (S8) (LRR K, L)
	d Below Dark Surfac	æ (A11)	Depleted Matrix					face (S9) (LRR K, L)
	ark Surface (A12) Mucky Mineral (S1)		Redox Dark Sur Depleted Dark S		7)			se Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depressi		′)			(TA6) (MLRA 144A, 145, 149B)
	Redox (S5)						Red Parent M	
	Matrix (S6)						-	Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, I	MLRA 1491	B)				Other (Explain	in Remarks)
	f hydrophytic vegeta Layer (if observed)		etland hydrology must	t be prese	nt, unless	disturbed	or problematic.	
Type:	Layer (ii observed)							
Depth (in	ches):						Hydric Soil Presen	nt? Yes <u>×</u> No
Remarks:								
								11
le le								
1								

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region GROSSE POILNIE SHORES

Project/Site: FORD COVE KECTORATION City/County: WAYNE Sampling Date: 8.2.21
Applicant/Owner: FORD HOUSE State: MI Sampling Point: \$2
Investigator(s): [LIADE ROSE, JOHN BARBATANO Section, Township, Range: 535 TIN R13E
Landform (hillslope, terrace, etc.): <u>Noい</u> Local relief (concave, convex, none): <u>Noい</u> Slope (%): <u>&lt; 억</u>
Subregion (LRR or MLRA): <u> </u>
Soil Map Unit Name: ZFShaA ZIEGENFUSS SANDY LOAM NWI classification; NONE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation _ N _, Soil _ N _, or Hydrology _ N _ naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No Is the Sampled Area
Hydric Soil Present? Yes No × within a Wetland? Yes No ×
Wetland Hydrology Present?  Yes No × If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)  Field Observations:
Surface Water Present? Yes No _X_ Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No X  (includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: WETS DATA FROM THE GROSSE POINTE FARMS STATION INDICATE
CONDITIONS ARE WETTER THAN HISTORICAL AVERAGES FOR THE PREVIOUS
3 MONTHS.

PRAXINIS PENNSYLVANICA  RESTRAILM (Plot size: 30 )  PRAXINIS PENNSYLVANICA	40 10 50	= Total Cov	FAC	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:
ACER NECTUANDO  apling/Shrub Stratum (Plot size: 15 ) FRAXINUS PENNSYLVANICA RHUS TYPHINA	50	= Total Cov	FAC	Total Number of Dominant Species Across All Strata:
apling/Shrub Stratum (Plot size: 15 ) FRAXINIS PENNSYLVANICA RHUS TYPHTNA	50	= Total Cov		Species Across All Strata:
apling/Shrub Stratum (Plot size: 15 ) FRAXINUS PENNSYLVANICA RHUS TYPHINA	50	= Total Cov	A	Percent of Dominant Species That Are OBL, FACW, or FAC:
apling/Shrub Stratum (Plot size: 15 ) FRAXINUS PENNSYLVANICA RHUS TYPHTNA	50	= Total Cov	5)	Prevalence Index worksheet:
apling/Shrub Stratum (Plot size: 15 ) FRAXINUS PENNSYLVANICA RHUS TYPHINA	50	= Total Cov		Prevalence Index worksheet:
PRAXINUS PENNSYLVANICA  RHUS TYPHTNA	50	= Total Cov		Total % Cover of:Multiply by:
PRAXINUS PENNSYLVANICA RHUS TYPHINA	50	= Total Cov	er	
FRAXINIS PONNSYLVANICA RHUS TYPHINA	(0		er	OBL species x 1 =
FRAXINIS PONNSYLVANICA RHUS TYPHINA		Y		
RHUS TYPHINA		4		FACW species x 2 =
	_5_	1	FACW	FAC species x 3 =
		4	FACU	FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
*				∠ 2 - Dominance Test is >50%
	15	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
erb Stratum (Plot size:)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
PARTHENOCISSUS QUINQUEFOLIA	60	<u> </u>	FACU	data in Remarks or on a separate sheet)
VITIS RIPARIA	<u> </u>		FAC	Problematic Hydrophytic Vegetation¹ (Explain)
SOLANUM DULCAMARA	2		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
GEUM CANADENCE	2:		FAC	be present, unless disturbed or problematic.
DENOTHERA BIENNIS	2		FACU	Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diametel
				at breast height (DBH), regardless of height.
				Sapling/shrub – Woody plants less than 3 in. DBH
			2=====	and greater than or equal to 3.28 ft (1 m) tall.
).			-	Herb - All herbaceous (non-woody) plants, regardless of
		-		size, and woody plants less than 3.28 ft tall.
		-	8	Woody vines - All woody vines greater than 3.28 ft in
2				height.
	74	= Total Cov	er	
loody Vine Stratum (Plot size: 30)				
NA				Hydrophytic
	-			Vegetation
· · · · · · · · · · · · · · · · · · ·				Present? Yes No
				~
	0	= Total Cov	er	
emarks: (Include photo numbers here or on a separate s	heet.)			

Sampling	Point:	52

0	0	П	ı
J	u	u	L

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redo	k Features							
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	_Loc <sup>2</sup> _	Texture		Remark	S	
0-3	1048 3/1	100	·				CLAY LOA	m			
3-14	7.54R 3/1	95					CLAGLOS	in			
	,										
			-					-			
					-	$\overline{}$					
							·				
-		/									
-		-				-	-				
								<u> </u>			
-				-			:. <del></del> )				
							2,	D. D.		4.4.	
Type: C=Co	ncentration, D=Depl	etion, RM	Reduced Matrix, MS	=Masked	Sand Gra	ains.	Indicators	PL=Pore I			
_			Debaratus Polov	, Surface (	C0) /I DE	D D		uck (A10) (			
Histosol	ipedon (A2)		Polyvalue Belov MLRA 149B)		30) (LKI	C IX,		Prairie Redo			
Black His			Thin Dark Surfa		RR R. ML	-RA 149B		ucky Peat			
	n Sulfide (A4)		Loamy Mucky M					urface (S7)			
Stratified	Layers (A5)		Loamy Gleyed I					ue Below S			L)
	l Below Dark Surface	(A11)	Depleted Matrix					ark Surface			
	rk Surface (A12)		Redox Dark Sur					nganese M	-		
	lucky Mineral (S1)		Depleted Dark S		()			nt Floodpla			
-	leyed Matrix (S4) edox (S5)		Redox Depressi	ons (F8)				Spodic (TA6 rent Materi		44A, 143	, 1496)
-	Matrix (S6)							nallow Dark		F12)	
	face (S7) (LRR R, M	LRA 149E	3)				_	Explain in F		,	
_			•					·			
	hydrophytic vegetati	on and we	tland hydrology mus	t be preser	nt, unless	disturbed	or problematic.				
Restrictive L	.ayer (if observed):										
Type:											
Depth (inc	:hes):						Hydric Soil 1	Present?	Yes	No_	_×_
Remarks:							-				
											- 1
						5.0					

Project/Site: FORD COVE RESTORATION   City/C	County: WAYNE SHORES Sampling Date: 8.2.21
	State: MT Sampling Point: S3
Investigator(s): WADE ROSE, JOHN BARBATANO Section	
Landform (hillslope, terrace, etc.): Noいこ Local rel	
Subregion (LRR or MLRA): <u> </u>	
Soil Map Unit Name: ZFShaA ZTEGENFUSS SANDY L	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	res No _∠ (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology P significantly distur	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problems	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes 🔀 No
Wetland Hydrology Present? Yes _x No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
➤ Surface Water (A1)	es (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
✓ Saturation (A3)       Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	
Sediment Deposits (B2) Oxidized Rhizosphere	
Drift Deposits (B3) Presence of Reduced Algal Mat or Crust (B4) Recent Iron Reductio	· · ·
Algal Mat of Crust (B4) Recent from Reduction Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches): O	
Water Table Present? Yes 🔀 No Depth (inches): 3	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vieus inspections) if evallables
Describe Necorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available.
Remarks: WETS DATA FROM THE GROSSE POINTE	FARMS STATION INDICATE
CONDITIONS ARE WETTER THAN HISTORIE	CAL AVERAGES FOR THE PREVIOUS
3 manths.	
	8
	43

#### **VEGETATION** – Use scientific names of plants.

				Sampling Point:
Tree Stratum (Plot size: 30 )	Absolute	Dominant Species?		Dominance Test worksheet:
1. Populus Deltotres		0)= 1:		Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
2. SALIX ALBA				Total Number of Dominant
3. ACER NEGUNDO				Species Across All Strata: 3 (B)
4. Morus Rubra				Percent of Dominant Species That Are OBL, FACW, or FAC:\OO%_ (A/B)
5			-	That Are OBL, FACW, or FAC: (A/B)
6,				Prevalence Index worksheet:
7,				Total % Cover of: Multiply by:
	75	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =
1NA	0		G	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
		= Total Cov	er	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. IMPATIONS CAPENSIS				data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless of
11				size, and woody plants less than 3.28 ft tall.
12		-		Woody vines - All woody vines greater than 3.28 ft in
12	40	T-1-1-0		height.
7.2	40	= Total Cove	er	
Woody Vine Stratum (Plot size: 30 )	_			
1. <u>NA</u>				Hydrophytic
2				Vegetation
				Present? Yes No
3				
3 4				

Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of indicators.)								
Depth	Matrix		Redo	x Feature	<u>s</u> .	_		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u> Remarks	_
0-4	104R2/1	100					MUCK MINERAL	_
4-15	104R 5/2	85					SAND SHELLS IN MATRIX	
	·		-		:			
					y. <del></del> -	-		
	·	. ——			::			
			2		37 <del>2</del>			
	-				·			_
	-		( <del></del>	-			<del> </del>	
	3 <del></del>		0. <del></del>					
·								
-	-					-	<del></del>	==:
	·		·					—;
·	-		Vi					
¹Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil							Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Belov	v Surface	(S8) ( <b>LRF</b>	R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)	
Black His	stic (A3) n Sulfide (A4)		Thin Dark Surfa				. —	
	d Layers (A5)		Loamy Mucky N Loamy Gleyed I	-		L)	Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L)	
	Below Dark Surface	e (A11)	Depleted Matrix		,		Thin Dark Surface (S9) (LRR K, L)	
	ark Surface (A12)	, ,	Redox Dark Su				Iron-Manganese Masses (F12) (LRR K, L, R	)
	lucky Mineral (S1)		Depleted Dark S	-	7)		Piedmont Floodplain Soils (F19) (MLRA 149)	
	leyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B	3)
-	edox (S5) Matrix (S6)						Red Parent Material (F21) Very Shallow Dark Surface (TF12)	
	rface (S7) (LRR R, N	ILRA 149	B)				Other (Explain in Remarks)	
	` /\ /		,					
			etland hydrology mus	t be prese	nt, unless	disturbed	or problematic.	
	ayer (if observed):							
Type:								
Depth (inc	:hes):						Hydric Soil Present? Yes 🔀 No	
Remarks:								
							4	- 1
							/	
							a.	
								- 1
								П

- · · ·	GBOSSE POINTE SHORES
Project/Site: FORD COVE RESTORATION City/O	County: WAYNE Sampling Date: 8.2.2
Applicant/Owner: FORP HOUSE	State: MT Sampling Point: S4
Investigator(s): WADE ROSE, JOHN BARBATANO Secti	on, Township, Range: S35 T1N R13E
Landform (hillslope, terrace, etc.): NONE Local rel	ief (concave, convex, none): Nove Slope (%): < 4%
Subregion (LRR or MLRA): LRRL Lat: 42.4587)	
	NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation N, Soil N, or Hydrology N significantly distur	
Are Vegetation N. Soil N. or Hydrology N naturally problems  SUMMARY OF FINDINGS — Attach site map showing san	atic? (If needed, explain any answers in Remarks.)  appling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No ×	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No ×  Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
HYDROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odd	Dry-Season Water Table (C2)
_ , ,	Alberta care to
Drift Deposits (B3) Presence of Reduced	3,7,
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (C	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	, ,
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	HE .
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No ×
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	rious inspections), if available:
	20
Remarks:	
REMARKS: WETS DATA FROM THE CROSSE POINTS ARE WETTER THAN HISTORICAL AVERAGE	FARMS STATION INDICATE CONDITIONS IS FOR THE PREVIOUS 3 MONTHS.

VEGETATION – Use scientific names of plants	ž.			Sampling Point: <u>SA</u>
Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. MORUS RUBBA			<u>FACU</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. POPULUS DELTOTOES				(A)
3CRATAEGUS Sp.				Total Number of Dominant Species Across All Strata:
4. ACER PLATANOIDES				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =
1. ACER SACCHARINUM	\$	<u> </u>	FACOU	FAC species x 3 =
2	N			FACU species x 4 =
3				UPL species x 5 = Column Totals: (A) (B)
4				Column Totals (A) (b)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	5	= Total Cove	er	× 2 - Dominance Test is >50%
Herb Stratum (Plot size:)			1	3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
1. TOXTRODONDRON RADICANS			-	data in Remarks or on a separate sheet)
2. PARTHENOCISSUS QUENOUFFOLIA				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9	-			
10				Herb – All herbaccous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
Experience of the consequence of the	<u>30                                    </u>	= Total Cove	<b>F</b>	
Woody Vine Stratum (Plot size: 30 )				
1. TOXTCODENDRON RADICANS			FAC	Hydrophytic
2				Vegetation
3				Present? Yes X No
4				
Remarks: (Include photo numbers here or on a separate sl		= Total Cover	<u>r</u>	
Total Control of the Control of the Copulation	iber.			

Sampling Point: 54

Profile Desc	cription: (Describe	to the de	pth needed to docu	ment the indica	tor or confir	m the absence o	of indicators.)		
Depth	Matrix			x Features					
(inches)	Color (moist)	%_	Color (moist)	%Тур	e <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>		marks	
0-12	104R 3/2	95				CLAG LOAN	SAMPLE TY SPOTES PIL	E ALONG	SHORE
	/								
			) <del>;</del>						
		-			_				
			·						
			10						
							A		
		-				·			
<del></del>									
		etion, RM	=Reduced Matrix, MS	S=Masked Sand	Grains.	<sup>2</sup> Location:	PL=Pore Lining, I	M=Matrix.	
Hydric Soil I						Indicators for	or Problematic H	ydric Soils <sup>3</sup> :	
Histosol	. ,		Polyvalue Belov		.RR R,	2 cm Mu	ick (A10) (LRR K,	, L, MLRA 149	9B)
	ipedon (A2)		MLRA 149B)				rairie Redox (A16		
Black His	' '			ce (S9) (LRR R,			icky Peat or Peat		L, R)
	n Sulfide (A4)		Loamy Mucky N		ł K, L)		rface (S7) (LRR K		
	Layers (A5) Below Dark Surface	(811)	Loamy Gleyed I				e Below Surface		L)
	rk Surface (A12)	(ATT)	Depleted Matrix Redox Dark Sur	, ,			rk Surface (S9) (L		
	ucky Mineral (S1)		Depleted Dark S				nganese Masses (		
	leyed Matrix (S4)		Redox Depressi				nt Floodplain Soils		
	edox (S5)		redox Depressi	una (i u)			podic (TA6) ( <b>MLR</b> ent Material (F21)		1498)
	Matrix (S6)						allow Dark Surfac		
	face (S7) (LRR R, M	LRA 149	3)				xplain in Remarks		
			•			04.0. (2	spian in remaine	"	
3Indicators of	hydrophytic vegetation	on and w	etland hydrology mus	t be present, unl	ess disturbed	or problematic.			
Restrictive L	ayer (if observed):								
Type:									- 1
Depth (incl	hes):					Hydric Soil P	resent? Yes	No	$\checkmark$
Remarks:						Tiyono oon T			$\stackrel{\sim}{-}$
									1
									- 1
									1
									1
									1

Designative to the Court Designation of the	County: WAYNE SHORES Sampling Date: 8 · Z · 21
Applicant/Owner: FORD House	State: MT Sampling Point: SS
Investigator(s): [WADE ROSE, JOHN BARBATANO Sect	
Landform (hillslope, terrace, etc.): NONE Local re	slief (concave, convex, none): NONE Slope (%): < 2 %
Subregion (LRR or MLRA): LRRL Lat: 42.457966	Long: <u>-82.872686</u> Datum: WG 84
Soil Map Unit Name: ZfshaA ZIEGENFUSS SANDY	LOAM NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No X (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	
Are Vegetation N, Soil N, or Hydrology N naturally problem	
Are vegetation, Soil, or hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesX No	is the Sampled Area
Hydric Soil Present? Yes No ×	within a Wetland? Yes No ×
Wetland Hydrology Present? Yes No ×	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	A 14 - Francisco 17 and touton
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	es (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Mart Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	lor (C1) Crayfish Burrows (C8)
	res on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (6 Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	marks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	(NO-Neullal Test (D3)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No×
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), ir available:
REMARKS: WETS DATA FIROM THE GROSSE POINTE FARMAGES FOR WETTER THAN HISTORICAL AVERAGES FO	M'S STATION INDICATES CONSTITIONS IN THE PREVIOUS 3 MONTHS
	_
The state of the s	

VECETATION	Use scientific nam	oc of plante
A POST I WILLIAM -	USC SURRIBIL DRIE	ies ui ukaiils.

-	i.			Sampling Point:
Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. QUERCUS PACUSTRIS		Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 CRATAEGUS CRUS-GALLI	_16		FAC	Total Number of Dominant
3.				Species Across All Strata: 4 (B)
k				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 75% (A/B)
5				Prevalence index worksheet:
7				Total % Cover of: Multiply by:
	70			OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =
1. CRATAEGUS CRUS-GALLI	20	ب	FAC	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
<u> </u>				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
7				× 2 - Dominance Test is >50%
W 17720 X		= Total Cov	ver	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:)  1. \/ INCA WILLOW	_	U	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. EPIPACTIS HELLEBORINE				Problematic Hydrophytic Vegetation¹ (Explain)
3. PUDBECICTA LACINIATA				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
SYMPHYOTRICHUM LATERIFLORUM				be present, unless disturbed or problematic.
			•	Definitions of Vegetation Strata:
5				parameter state of the state of
5				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				Sapling/shrub Woody plants less than 3 in. DBH
3		-		and greater than or equal to 3.28 ft (1 m) tall.
)			-	Herb – Ali herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
11	-	-		Woody vines - All woody vines greater than 3.28 ft in
2				height.
	19	= Total Cov	er er	
Voody Vine Stratum (Plot size:)				
NA				Hydrophytic
				Vegetation
B				Present? Yes X No
1				
	0	= Total Cov	rer	

Profile Desc	ription: (Describe t	o the de	oth needed to document the in	dicator o	r confir	n the absence of	indicato	ors.)	
Depth	Matrix	0.	Redox Features		2	Total		ъ.	
(inches)	Color (moist)	%		Type <sup>1</sup>		Texture		Remarks	
0-4	104R 3/3	100	S <del></del>			- CLAY LOAM			
4-13	7.54R 2.5/1	95				CLAY LOAN	1		
¹Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS=Masked	Sand Gra	ins.	<sup>2</sup> Location: P	L=Pore	Lining, M=Mat	rix.
Hydric Soil I						Indicators for			
Histosol	(A1)		Polyvalue Below Surface (	S8) ( <b>LRR</b>	R,			(LRR K, L, ML	
1.00	ipedon (A2)		MLRA 149B)					ox (A16) (LRR	
Black His	suc (A3) n Sulfide (A4)		Thin Dark Surface (S9) (Li Loarny Mucky Mineral (F1)					or Peat (S3) (I (LRR K, L, M	
0. 350	Layers (A5)		Loamy Gleyed Matrix (F2)	(Little 14)	-,			Surface (S8) (L	
	Below Dark Surface	(A11)	Depleted Matrix (F3)					(S9) (LRR K,	-
	rk Surface (A12)		Redox Dark Surface (F6)					/lasses (F12) (	-
	ucky Mineral (S1)		Depleted Dark Surface (F7	)					(MLRA 149B)
	leyed Matrix (S4) edox (S5)		Redox Depressions (F8)			Red Parer		6) ( <b>MLRA 144</b> . ial (F21)	A, 145, 149B)
CENTRY NO.	Matrix (S6)							Surface (TF1	2)
Dark Sur	face (S7) (LRR R, M	LRA 149	B)			Other (Exp			ŕ
31									
	ayer (if observed):	on and w	etland hydrology must be presen	it, uniess	disturbed	or problematic.			
Type:	ayer (ii observes).					l			
Depth (inc	hes):					Hydric Soil Pre	esent?	Yes	No X
Remarks:						1.,			

Project/Site: FORD COVE RESTORATION City/County: WAYNE Sampling Di	ate: 8.2.21
Applicant/Owner: FORD HOUSE State: MI Sampling	Point: S6
Investigator(s): WADE ROSE, JOHN BARBATANO Section, Township, Range: 535 T1N R13E	
Landform (hillslope, terrace, etc.): None Local relief (concave, convex, none): CONCAUE	Slope (%): < 2%
Subregion (LRR or MLRA): LZCL Lat: 42.457878 Long: -82.872089 D	
Soil Map Unit Name: ZfshaA ZIEGONFUSS SANDY LOAM NWI classification: NON	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes NoX (If no, explain in Remarks.)	
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes	s <u>×</u> No
Are VegetationN, SoilN, or HydrologyN naturally problematic? (If needed, explain any answers in Remarks	3.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, importan	it features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Area	
Hydric Soil Present? Yes X No within a Wetland? Yes No	
Wetland Hydrology Present? YesX No	
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (minimum	n of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)	
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)	
High Water Table (A2) — Aquatic Fauna (B13) — Moss Trim Lines (B16)	
✓ Saturation (A3) Marl Deposits (B15) 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 Aeria	
✓ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants	
Algal Mat or Crust (B4) Recent tron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)	
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D	141
Sparsely Vegetated Concave Surface (B8)  FAC-Neutral Test (D5)	4)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches): 5 Wetland Hydrology Present? Yes X	No No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Total of the Land galage, mentaling was, asital photos, provided inspectation, is available.	
Remarks: WETS DATA FROM THE GROSSE POINTE FORMS STATION ENDICATES CONDITI	2005
ARE WETTER THAN HISTORICAL AVERAGES FOR THE PREVIOUS 3 MONTHS.	
K.	
TX.	

Tree Stratum (Plot size: ZO)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. ULMUS AMERICANA				Number of Dominant Species That Are OBL, FACW, or FAC:
2. CRATAEGUS CRUS-GALII		,		
3. FRAXIVUS PENNSYLVANICA				Total Number of Dominant Species Across All Strata: 8 (B)
4. QUERCUS PALUSTRES	_	•		Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: (A/B
6				
7				Prevalence Index worksheet:
<i>C</i> <sub>2</sub>		= Total Cov	ior.	
Sapling/Shrub Stratum (Plot size: \5 )	_2()	- TOTAL COV	ਰ	FACW species x 2 =
1. FRAXINUS PENNSYLVANICA		ب		FAC species x 3 =
				FACU species x 4 =
2. CORNUS ALBA				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
7				≥ 2 - Dominance Test is >50%
	_7	= Total Cov	rer	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. PHYSOSTEGIA VIRGINIANA			FACU	data in Remarks or on a separate sheet)
2.554MPHYOTELCHUM LATERIFLORUM				Problematic Hydrophytic Vegetation¹ (Explain)
3. OXALIS SP.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. PERSICARIA LONGISETA				To such so the Torrigo
5. EUPATORIUM PERFOLIATUM	_2		FACU	Definitions of Vegetation Strata:
6. FRAXINUS PENNSYLVANICA				Tree - Woody plants 3 in. (7.6 cm) or more in diamete
7. ASCLEPTAS DIVARNATA	_2_		OBT	at breast height (DBH), regardless of height.
8			-	Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10	·			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11	V			
12				Woody vines – All woody vines greater than 3.28 ft in height.
	48	= Total Cov	er	
Woody Vine Stratum (Plot size: 30 )				
1. NA	0			
2				Hydrophytic Vegetation
3				Present? Yes No
4.				ŕ
	6	= Total Cov	er	

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	- 0.1	Matrix			x Features	. 1	. 2	T
(inches)	Color	moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc*	Texture Remarks
<u>D-4</u>	10 YR	2/1	100					CLAY LOAM
4-11_	10 YR	5/1	85	104R 6/8	_<		M	CLAY LOAM
11-13	10 4R	3/2	90					CLAY LOAM
							-	
-								
	5			-				
	-							
<del></del>								2
Type: C=Co			etion, RM	Reduced Matrix, MS	=Masked	Sand Gra	kins.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol				Polyvalue Belov	v Surface (	(S8) ( <b>LRR</b>	R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
0.7	pipedon (A2	2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3) n Sulfide (A	14)		Thin Dark Surfa Loarny Mucky N	, , ,			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L, M)
	Layers (A	-		Loamy Gleyed			<b>L</b> -)	Polyvalue Below Surface (S8) (LRR K, L)
× Depleted			(A11)	Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)
	rk Surface	1.00		Redox Dark Sur				Iron-Manganese Masses (F12) (LRR K, L, R)
	lucky Mine			Depleted Dark S	-	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)
	leyed Matr edox (S5)	ix (54)		Redox Depressi	ons (F8)			<ul><li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li><li>Red Parent Material (F21)</li></ul>
	Matrix (S6	)						Very Shallow Dark Surface (TF12)
na di Maria	face (S7) (		LRA 1498	3)				Other (Explain in Remarks)
3Indicators of	hydrophyti	ic vegetati	ion and we	tland hydrology mus	t be preser	nt, unless	disturbed	d or problematic.
Restrictive L				, , , , , , , , , , , , , , , , , , , ,				T
Туре:								
Depth (inc	:hes):							Hydric Soil Present? Yes X No
Remarks:								