N/S

Site:	Ur	mous 17 28	Rater(s): S. Bingham, D	Date: 4/10/201	12
2	2	letric 1. Wetland	,		X
max 6 pts.		Select one size class and assign scor >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20 10 to <25 acres (4 to <10.1 to <1.2 to <4ha) 3 to <10 acres (0.12 to <4.2 to <4.2 to <0.3 acres (0.04 to <0.2 to <0.3 acres (0.04 to <0.3 acres (0.04ha) (0 pts)	9. 2.2ha) (5 pts) na) (4 pts) (3 pts) tha) (2pts)	A Comment of the Comm	Section 1
4	6 N	letric 2. Upland	buffers and surroundin	a land use.	
max 14 pts.	subtotal 2a	Calculate average buffer width. S WIDE. Buffers average 50n MEDIUM. Buffers average NARROW. Buffers average VERY NARROW. Buffers a Intensity of surrounding land use. VERY LOW. 2nd growth or LOW. Old field (>10 years), MODERATELY HIGH. Resi	elect only one and assign score. Do not double in (164ft) or more around wetland perimeter (7) 25m to <50m (82 to <164ft) around wetland perim 10m to <25m (32ft to <82ft) around wetland periverage <10m (<32ft) around wetland perimeter (6 Select one or double check and average. older forest, prairie, savannah, wildlife area, etc. shrubland, young second growth forest. (5) dential, fenced pasture, park, conservation tillage an pasture, row cropping, mining, construction. (1	oter (4) meter (1)) 7) , new fallow field. (3)	
8	14 N	letric 3. Hydrolo	gravit granjen inskrivin er OV. I		
max 30 pts.	subtotal 3a	Sources of Water. Score all that a High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (lake Maximum water depth. Select online 20.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (1) <0.4 m (<15.7in) (1)	apply. 3b. Connectivi 100 y Betwee Part of Pa	y. Score all that apply. ear floodplain (1) en stream/lake and other human use (1) f wetland/upland (e.g. forest), complex (1) f riparian or upland corridor (1) undation/saturation. Score one or dbl chec to permanently inundated/saturated (4) arly inundated/saturated (3) nally inundated (2) nally saturated in upper 30cm (12in) (1)	sk.
		None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)	tile 🔀 filling/	ource (nonstormwater) grading ed/RR track ng	
4.5	18.5 N	letric 4. Habitat <i>i</i>	Alteration and Develop	ment.	
max 20 pts.	subtotal 4a.	Substrate disturbance. Score one None or none apparent (4) Recovered (3)	or double check and average.		
	4c.	Poor (1) Habitat alteration. Score one or do None or none apparent (9) Recovered (6)	Check all disturbances observed	sapling removal	
·	2 18.5 ubtotal this page	Recovering (3) Recent or no recovery (1)	grazing herbacclearcutting sedim selective cutting dredgi woody debris removal farmin	eous/aquatic bed removal entation ng	

Site: S	Unia	ue 1D 28	Rater(s): 5-Bingle	ray/D.Marau	Date: 4/10/2012
*	<i>y</i> .	1			
1.5	18.5				
	subtotal this pa		· ·	1. I. (*)	
69					
D 1	18.5	Metric 5. Specia	ıl Wetlands.		
max 10 pts.	subtotal	Check all that apply and score as i		· :	
	# 	Bog (10)			V
		Fen (10)		₽	And the second
	18 ¹	Old growth forest (10) Mature forested wetland	(5)	en de la companya de La companya de la co	ing a second
			y wetland-unrestricted hydrology (10)	
			y wetland-restricted hydrology (5)		£ "
		Lake Plain Sand Prairies	(Oak Openings) (10)	ali ali ali	
		Relict Wet Praires (10)			
			federal threatened or endangered gbird/water fowl habitat or usage (g st ⁱ
			e Question 1 Qualitative Rating (-1	· · · · · · · · · · · · · · · · · · ·	
	A	1 -	The state of the s		
-2	16.5	Metric 6. Plant c	communities, int	erspersion, micr	otopography.
max 20 pts.	subtotal	6a. Wetland Vegetation Communit	ties. Vegetation Commun		
		Score all present using 0 to 3 scale		Absent or comprises <0.1ha (0.2	
		Aquatic bed / Emergent		Present and either comprises sm vegetation and is of moderate	
		Shrub	4 V **	significant part but is of low qua	
		/ Forest	2	Present and either comprises sig	
		Mudflats	All	vegetation and is of moderate	quality or comprises a small
244		Open water		part and is of high quality	t and the same of
X		Other6b. horizontal (plan view) Interspet	3	Present and comprises significar vegetation and is of high quality	
		Select only one.		, in the second	
		High (5)	Narrative Description	of Vegetation Quality	
		Moderately high(4)	low	Low spp diversity and/or predom	And the second s
		Moderate (3) Moderately low (2)	mod	disturbance tolerant native spe Native spp are dominant compor	Agent's
		Low (1)	mou mou	although nonnative and/or distu	44 444 -
		None (0)		can also be present, and speci	es diversity moderate to
		6c. Coverage of invasive plants. F		moderately high, but generally	v/o presence of rare
		to Table 1 ORAM long form for list.		threatened or endangered spp	
, 1		or deduct points for coverage Extensive >75% cover (-1)	high 5)	A predominance of native specie and/or disturbance tolerant nati	
		Moderate 25-75% cover		absent, and high spp diversity	
	_	3 Sparse 5-25% cover (-1)		the presence of rare, threatene	d, or endangered spp
		Nearly absent <5% cover	• •		
		Absent (1)	Mudflat and Open Wa	Absent <0.1ha (0.247 acres)	***
		6d. Microtopography.Score all present using 0 to 3 scale		Low 0.1 to <1ha (0.247 to 2.47 a	cres)
		Vegetated hummucks/tus		Moderate 1 to <4ha (2.47 to 9.88	
		Coarse woody debris >15		High 4ha (9.88 acres) or more	
		Otanding dead > 256ii (1			
		∂ Amphibian breeding pool	s <u>Microtopography Co</u> 0	Absent	
			1 49.1.1.1.1.1.1	Present very small amounts or if	more common
		•		of marginal quality	
		to the	2	Present in moderate amounts, bu	
		equipment of the second of the	-	quality or in small amounts of h Present in moderate or greater a	
	the way	:	3 as a	and of highest quality	inounts
1000		Section	A STANDARD CONTRACTOR	and the second second	
16.5	GRAN	D 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:	Uniqu	u ID 39	Rater(s): S. Binghau/D. Maram	Date: 04/10/2012
2	2	 Metric 1. Wetland	l Area (size).	
max 6 pts.	subtotal	Select one size class and assign score >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20 10 to <25 acres (4 to <10.1h 3 to <10 acres (1.2 to <4ha) 0.3 to <3 acres (0.12 to <1.2 0.1 to <0.3 acres (0.04 to <0 <0.1 acres (0.04ha) (0 pts)	0.2ha) (5 pts) na) (4 pts) (3 pts) 2ha) (2pts)	
6	8	Metric 2. Upland	buffers and surrounding land u	se.
mex 14 pts.	subtotal	WIDE. Buffers average 50m MEDIUM. Buffers average 2 NARROW. Buffers average VERY NARROW. Buffers average VERY NARROW. Buffers average VERY LOW. 2nd growth or LOW. Old field (>10 years), MODERATELY HIGH. Resi	select only one and assign score. Do not double check. 1 (164ft) or more around wetland perimeter (7) 25m to <50m (82 to <164ft) around wetland perimeter (4) 10m to <25m (32ft to <82ft) around wetland perimeter (1) verage <10m (<32ft) around wetland perimeter (0) Select one or double check and average. older forest, prairie, savannah, wildlife area, etc. (7) shrubland, young second growth forest. (5) dential, fenced pasture, park, conservation tillage, new fallow field, en pasture, row cropping, mining, construction. (1)	(3)
12	20	Metric 3. Hydrolo	av.	
max 30 pts.	subtotal	3a. Sources of Water. Score all that a High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (lake on the surface water) 3c. Maximum water depth. Select on the surface water (lake on the surface water) 3c. Maximum water depth. Select on the surface water (lake on the surface water) 3c. Maximum water depth. Select on the surface water (lake on the surface water (lake on the surface water) 3c. Maximum water depth. Select on the surface water (lake on the surface water	apply. 3b. Connectivity. Score all that a 100 year floodplain (1) Between stream/lake a Part of wetland/upland Part of riparian or uplar e or stream) (5) 9 one and assign score. 22) 3d. Duration inundation/saturatic Semi- to permanently in Regularly inundated/sa Seasonally inundated (2) Seasonally saturated in stream. Score one or double check and average. Check all disturbances observed ditch title point source (nonstorm filling/grading	nd other human use (1) (e.g. forest), complex (1) nd corridor (1) nn. Score one or dbl check. nundated/saturated (4) turated (3) 2) upper 30cm (12in) (1)
		Recent or no recovery (1)	dike	
8.5	28.5	Metric 4. Habitat A	Alteration and Development.	
max 20 pts.		None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select only Excellent (7) Very good (6) Good (5) Moderately good (4)		
		Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or de	ouble check and average.	
, , s	28.5 uubtolal this pag	None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)	Check all disturbances observed mowing grazing clearcutting selective cutting woody debris removal toxic pollutants mowing grazing herbaceous/aquatic bed sedimentation dredging farming nutrient enrichment	i removal

Site:	Inique	10 39	Rater(s): S.Bingh	au/D. Marcur	Date: 4/10/2012
		_		<u>. </u>	
		1 '			
	28.5		•	•	
1			*		
	ubtotal this pag	3 0			4
0	28.5	Metric 5. Special V	Vetlands		•
max 10 pts.	subtotal	Check all that apply and score as indicat	eo.		
	•	Bog (10) Fen (10)			
•		Old growth forest (10)			·
		Mature forested wetland (5)	•	* <u>.</u>	
		Lake Erie coastal/tributary wet	and-unrestricted hydrology (1	0)	
		Lake Erie coastal/tributary wet			
		Lake Plain Sand Prairies (Oak	Openings) (10)		
		Relict Wet Praires (10)	•		
		Known occurrence state/federa			
		Significant migratory songbird/			at 1
		Category 1 Wetland. See Que	stion 1 Qualitative Rating (-10))	the y
10	21.2				otopography
Q	34.5	Metric 6. Plant con	nmunities, inte	erspersion, micr	otopograpny.
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.	Vegetation Communit	y Cover Scale	
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2	
		Aquatic bed	1	Present and either comprises sm	
		2 Emergent	•	vegetation and is of moderate of	•
		Shrub	2	significant part but is of low qua Present and either comprises sig	
		Forest Mudflats	<i>L</i> -	vegetation and is of moderate of	
		Open water		part and is of high quality	
		Other	3	Present and comprises significan	nt part, or more, of wetland's
		6b. horizontal (plan view) Interspersion.		vegetation and is of high quality	
		Select only one.			· · · · · · · · · · · · · · · · · · ·
		High (5)	Narrative Description	of Vegetation Quality	
		Moderately high(4)	low ,	Low spp diversity and/or predom	inance of nonnative or
		Moderate (3)	· .	disturbance tolerant native spe	
		2 Moderately low (2)	mod	Native spp are dominant compon	
		Low (1)		although nonnative and/or distu	
		None (0)		can also be present, and speci- moderately high, but generally	
		6c. Coverage of invasive plants. Refer	•	threatened or endangered spp	Wo presence of faire
,		to Table 1 ORAM long form for list. Add	high	A predominance of native specie	s, with nonnative spp
		or deduct points for coverage Extensive >75% cover (-5)	ingii	and/or disturbance tolerant nat	
		Moderate 25-75% cover (-3)		absent, and high spp diversity	and often, but not always,
	_	3 Sparse 5-25% cover (-1)		the presence of rare, threatene	
		Nearly absent <5% cover (0)			
		Absent (1)	Mudflat and Open War	ter Class Quality	· · ·
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	<u> </u>	Low 0.1 to <1ha (0.247 to 2.47 a	
		/ Vegetated hummucks/tussuck		Moderate 1 to <4ha (2.47 to 9.8)	8 acres)
		2 Coarse woody debris >15cm (High 4ha (9.88 acres) or more	
		T Standing dead >25cm (10in) d			
		/) Amphibian breeding pools	Microtopography Cov		·.
		•	0 1	Absent Present very small amounts or if	more common
	•		1	of marginal quality	more common
			2	Present in moderate amounts, but	ut not of highest
			2	quality or in small amounts of h	
			3	Present in moderate or greater a	•
			-	and of highest quality	
·	7				

GRAND TOTAL (max 100 pts)

grazing

clearcutting

selective cutting woody debris removal

toxic pollutants

herbaceous/aquatic bed removal

sedimentation dredging

nutrient enrichment

farming

subtotal this page

Recovering (3)

Recent or no recovery (1)

Site:	V	inion ID 30	F	Rater(s): S. Bing	nar/D. Marcun	Date: 9/10/20/2
	495			:,		
Max 10 pts.	49.5	Metric 5. S Check all that apply and Bog (10) Fen (10)	•	·		e e e e e e e e e e e e e e e e e e e
		Old growth fo Mature forest Lake Erie coa Lake Erie coa	ed wetland (5) astal/tributary wetlar	nd-unrestricted hydrology (nd-restricted hydrology (5)		
		Relict Wet Pro- Known occurr Significant mi Category 1 W	aires (10) rence state/federal t igratory songbird/wa /etland. See Questi	hreatened or endangered ater fowl habitat or usage (on 1 Qualitative Rating (-	10) 10)	
6	55.5			munities, int	terspersion, mid	rotopography.
max 20 pts.	, subtotal	6a. Wetland Vegetation		Vegetation Commun	Absent or comprises <0.1ha (0 2471 acres) contiguous area
		Score all present using Aquatic bed Emergent Shrub	o lo 3 scale.	1	Present and either comprises vegetation and is of modera significant part but is of low	small part of wetland's te quality, or comprises a
	, 194 <u>8</u>	2 Prorest Mudflats Open water		2	Present and either comprises	
*		Other6b. horizontal (plan vie	w) Interspersion.	. 3		cant part, or more, of wetland's ality
		Select only one.	, ,	Newstive Description	n of Vegetation Quality	
		High (5) Moderately hi Moderate (3)		low	Low spp diversity and/or prediction disturbance tolerant native s	
		Moderately lo Low (1) None (0)		mod	Native spp are dominant com	ponent of the vegetation, isturbance tolerant native spp
	,	So Coverage of investi	ve nlants Refer		moderately high, but genera	llyw/o presence of rare

I High (5)	Hullante Boooliphon	0. 1 4 5 - 1 - 1
Moderately high(4) Moderate (3)	low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
Moderately low (2) Low (1) None (0) C. Coverage of invasive plants. Refer	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
o Table 1 ORAM long form for list. Add r deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)	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

Nearly absent <5% cover (0) Mudflat and Open Water Class Quality Absent (1) Absent <0.1ha (0.247 acres) 6d. Microtopography. Low 0.1 to <1ha (0.247 to 2.47 acres) Score all present using 0 to 3 scale. Moderate 1 to <4ha (2.47 to 9.88 acres) O Vegetated hummucks/tussucks 2 3 High 4ha (9.88 acres) or more Coarse woody debris >15cm (6in)

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

GRAND TOTAL(max 100 pts)

to

Standing dead >25cm (10in) dbh Amphibian breeding pools

ì

Site:	Unio	u 1D 32	Rater(s): S.Bingha-	D. Marau	Date: 4/10/20	12
à	2	Metric 1. Wetland	Area (size).			
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2 10 to <25 acres (4 to <10.1ha) 3 to <10 acres (1.2 to <4ha) (3 0.3 to <3 acres (0.12 to <1.2ha) 0.1 to <0.3 acres (0.04 to <0.1 <0.1 acres (0.04ha) (0 pts)	(4 pts) 3 pts) a) (2pts)	est o en	s sais	
8	10	Metric 2. Upland b	uffers and surrou	nding land u	se.	
max 14 pts.	subtotal	2a. Calculate average buffer width. Sel WIDE. Buffers average 50m (MEDIUM. Buffers average 25 NARROW. Buffers average 1 VERY NARROW. Buffers average 25 Intensity of surrounding land use.	ect only one and assign score. Do no 164ft) or more around wetland perime m to <50m (82 to <164ft) around wetl 0m to <25m (32ft to <82ft) around we rage <10m (<32ft) around wetland pe	ot double check. eter (7) and perimeter (4) etland perimeter (1) erimeter (0) ege. area, etc. (7)		
23	#1 41	MODERATELY HIGH. Reside	ential, fenced pasture, park, conservat pasture, row cropping, mining, constr	tion tillage, new fallow field.	(3)	
10	20	Metric 3. Hydrolog		·		
max 30 pts.	subtotal	3a. Sources of Water. Score all that ap High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (lake only 1) 3c. Maximum water depth, Select only 1)	water (3) or stream) (5) one and assign score.	connectivity. Score all that a 100 year floodplain (1) Between stream/lake ar Part of wetland/upland (Part of riparian or uplanduration inundation/saturatio Semi- to permanently in Regularly inundated/sat	nd other human use (1) e.g. forest), complex (1) d corridor (1) n. Score one or dbl chec undated/saturated (4) urated (3)	:k.
	***	0.4 to 0.7m (15.7 to 27.6in) (2) <0.4m (<15.7in) (1)	' · ·	Seasonally inundated (2 Seasonally saturated in	•	
		3e. Modifications to natural hydrologic r None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)	Check all disturbances observed ditch tile dike weir stormwater input	point source (nonstormy filling/grading road bed/RR track dredging other	water)	
12.5	32.5	Metric 4. Habitat A	Iteration and Dev	elopment.		
mex 20 pts.	subtotal	4a. Substrate disturbance. Score one of None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select only of Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or dougle or not complete the co	ne and assign score.			
	32,5	None or none apparent (9) 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 sedimentation ? dredging farming ? nutrient enrichment	i removal	1

ORAM v. 5.0 Field	Form Quanti	tative Rating				
Site: U	ione ID	32	Ra	iter(s): S. Binal	how / D. Marcun	Date: 9/10/2013
32.	page	ŕ		er de weg		
0 32.	5 Metr	ric 5. Sp	ecial Wet	tlands. 🕠		
max 10 pts. subtot	Check al	Lake Erie coastal Lake Plain Sand Relict Wet Praire	: (10) wetland (5) //tributary wetland- //tributary wetland- Prairies (Oak Ope s (10)	unrestricted hydrology (restricted hydrology (5) nings) (10) eatened or endangered		
2 34	5 Metr	Significant migrat Category 1 Wetla	tory songbird/wate and. See Question	r fowl habitat or usage (′ 1 Qualitative Rating (-1	10)	rotopography.
max 20 pts. subtot		and Vegetation Co		Vegetation Communi		
	2	present using 0 to Aquatic bed Emergent Shrub Forest Mudflats	3 scale.	2	Absent or comprises <0.1ha (0. Present and either comprises so expectation and is of moderate significant part but is of low or expectation and is of moderate vegetation and is of moderate part and is of high quality	mail part of wetland's quality, or comprises a uality gnificant part of wetland's
Service Co.		Open water Other		3	Present and comprises significa	ant part, or more, of wetland's
	6b. horiz Select or	zontal (plan view) I nly one. High (5) Moderately high(Harris III (1994) Sintage	Narrative Description	of Vegetation Quality Low spp diversity and/or predor	
		Moderate (3) Moderately low (2 Low (1) None (0) erage of invasive p	lants. Refer	mod	disturbance tolerant native sp Native spp are dominant compo- although nonnative and/or dis- can also be present, and spec- moderately high, but generally	onent of the vegetation, turbance tolerant native spp cies diversity moderate to rw/o presence of rare
****	89	1 ORAM long form t points for coverage Extensive >75% Moderate 25-75% Sparse 5-25% co	ge cover (-5) % cover (-3) over (-1)	high Age	threatened or endangered spi A predominance of native speci and/or disturbance tolerant na absent, and high spp diversity the presence of rare, threaten	es, with nonnative spp attive spp absent or virtually and often, but not always,
		Nearly absent <5 Absent (1) otopography. present using 0 to Vegetated humm Coarse woody de	o 3 scale. aucks/tussucks abris >15cm (6in)	Mudflat and Open Wa	Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 Moderate 1 to <4ha (2.47 to 9.67) High 4ha (9.88 acres) or more	The second secon
		Standing dead >2 Amphibian breed		Microtopography Cov	Absent Present very small amounts or of marginal quality Present in moderate amounts.	

34.5 GRAND TOTAL(max 100 pts)

Present in moderate or greater amounts

and of highest quality