ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

57

SITE NA	ME/LC	CATION	Scioto Rid	ge Wind	Farm A	Amendme	nt Data					
_			SITE NUM	BER SO	H-AD03	RIVER	BASIN N.	Fork Great	Miam c	RAINAGE	AREA (mi²)	1.49
LENGTH	OF S	TREAM	REACH (ft)	546 L	AT. 40.5	58422 LC	NG83	3.73730 RIV			RIVER MILE	
DATE 0	07/31/	14	SCORER B.	JS	co	MMENTS [
NOTE	: Com	plete A	II Items On Th	is Form -	Refer to	o "Field Ev	aluation	n Manual for	Ohio's PH\	NH Stream	ms" for Ins	tructions
STREA MODIF	МСН	ANNEL						RED REC				
	(Max o	f 32). Ac	Estimate percer dd total number o BS [16 pts]	f significant				8). Final metric		n of boxes . <u>PE</u> l		HHE Metri Point
	BE	DROCK	(>256 mm) [16 p [16 pt] 65-256 mm) [12 p	0	% % %		FINE I	PACK/WOODY DETRITUS [3 p or HARDPAN	ots]		0% 0% 0%	Substra Max = 4
	GF	RAVEL (2	2-64 mm) [9 pts] mm) [6 pts]	10	0% 0%		MUCK	[[0 pts] [ICIAL [3 pts]			0% 0%	12
			Percentages of ulder, Cobble, Be	edrock	0%	(A)	Substrat Check	e Percentage 10	0%		(B)	A + B
SCORE	OF TW	o Mos	T PREDOMINAT	E SUBSTR	RATE TYP	PES: 9	T	OTAL NUMBER	R OF SUBST	TRATE TYP	PES: 3	
	evalua > 30 ce	tion. Avo	ol Depth (Measure) bid plunge pools to [20 pts]				pipes) > 5 c		one box):	reach at th	e time of	Pool Der Max = 3
	> 10 - 3	22.5 cm		the outfa	alls/culv	ert		VATER OR MO	7		ers): 30	30
>	> 4.0 m > 3.0 m	eters (> 1	VIDTH (Measure 13') [30 pts] (> 9' 7" - 13') [25 (> 9' 7" - 4' 8") [20	pts]	erage of	3-4 measur	> 1.0	(Checl m - 1.5 m (> 3' m (<=3' 3") [5 p				Bankfu Width Max=30
446330	COMM	IENTS_						_AVERAGE BA	NKFULL W	IDTH (met	ers): 1.50	15
			AN ZONE AND I	FLOODPLA	AIN QUAI	LITY ☆I	NOTE: Riv	also be compl ver Left (L) and		looking do	wnstream ⅓	
	L R	(Per Wide	Bank) e >10m		L R	PLAIN QUAL (Most Pred Mature Fol Immature	lominant prest, Wetla	and	L R		ration Tillage	
			erate 5-10m			Field					r Industrial asture, Row C	rop
		Narr Non-				Residentia Fenced Pa		ew Field			or Construction	
		Stream	ace flow with isol				one box):	Moist Chann Dry channel,			w (Intermitter	nt)
		SINUO: None 0.5	SITY (Number of	bends per	61 m (20 1.0 1.5	0 ft) of chan	nel) (Che	eck <i>ONLY</i> one t 2.0 2.5	oox):	3.0		
***************************************	STRE/ t (0.5 ft/1		DIENT ESTIMAT		Mode	erate (2 ft/100	t)	Moderate to	o Severe		Severe (10 ft	/100 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):						
QHEI PERFORMED? - Yes No QHEI Score 31.0 (If Yes, Attach Completed QHEI Form)						
DOWNSTREAM DESIGNATED USE(S)						
WWH Name: Distance from Evaluated Stream						
CWH Name: Distance from Evaluated Stream EWH Name: Distance from Evaluated Stream						
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION						
USGS Quadrangle Name: Silver Creek NRCS Soil Map Page: NRCS Soil Map Stream Order						
County: Hardin Township / City: McDonald Township						
MISCELLANEOUS						
Base Flow Conditions? (Y/N): Y Date of last precipitation: 07/27/14 Quantity: 1.08						
Photograph Information: Seven photos taken at various points showing overgrown banks and pools in proximity to culverts						
Elevated Turbidity? (Y/N): Y Canopy (% open): 100%						
Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number:						
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)						
Is the sampling reach representative of the stream (Y/N) If not, please explain:						
Additional comments/description of pollution impacts:						
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)						
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Comments Regarding Biology:						
Comments Negarding Biology.						
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):						
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location						
CROP						
1111111 GEASS/1/ 8 ////////						
FLOW TLOW						
11/1/1/1/ 5///60 955/1/						
CROP						



Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score:	31	
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	and odo / tococcii	TOTAL FICIA OFFICEL	
Stream & Location	: SOH-ADO3	RM:	Date: 7 3 14
	Scorers	Full Name & Affiliation: 🗟 רוֹשׁׁ	
River Code:	STORET #:	Lat./Long.: 40. 58422 183	. 2323 Office verified location □
BEST TYPES	POOL RIFFLE POOL	☐ LIMESTONE [1] ☐ TILLS [1] ☐ WETLANDS [0] ☐ HARDPAN [0] ☐ SANDSTONE [0] ☐ DEPORT [0]	QUALITY HEAVY [-2] MODERATE [-1] Substrate NORMAL [0] FREE [1] EXTENSIVE [-2] Maximum NORMAL [0] NONE [1]
quality; 3-Highest quality diameter log that is stabUNDERCUT BANOVERHANGING	2018年2月2日 日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日	nest quality or in small amounts of highest e boulders in deep or fast water, large or deep, well-defined, functional pools.	AMOUNT Check ONE (Or 2 & average) EXTENSIVE > 75% [11] MODERATE 25-75% [7] SPARSE 5-<25% [3] NEARLY ABSENT < 5% [1] Cover Maximum 20
SINUOSITY DE HIGH [4]	FAIR [3] RECOVERING [3]	N STABILITY HIGH [3] MODERATE [2] LOW [1]	Channel Maximum 20
4] BANK EROSION	I AND RIPARIAN ZONE Check ONE in each	ch category for EACH BANK (Or 2 per bank	k & average)
River right looking downst EROSION NONE / LITTLE [3] MODERATE [2] HEAVY / SEVERE	R R R R R R R R R R	RUB OR OLD FIELD [2] SIDENTIAL, PARK, NEW FIELD [1] NCED PASTURE [1] Indicat	e predominant land use(s) 00m riparian. Riparian Maximum
51 POOL / GLIDE A	ND RIFFLE / RUN QUALITY		10
MAXIMUM DEPT Check ONE (ONLY!) □ > 1m [6] □ 0.7-<1m [4] □ 0.4-<0.7m [2] ☑ 0.2-<0.4m [1] □ < 0.2m [0] Comments	H CHANNEL WIDTH Check ONE (Or 2 & average) POOL WIDTH > RIFFLE WIDTH [2] POOL WIDTH = RIFFLE WIDTH [1] POOL WIDTH < RIFFLE WIDTH [0] M	CURRENT VELOCITY Check ALL that apply DRRENTIAL [-1] SLOW [1] ERY FAST [1] INTERSTITIAL [-1] AST [1] INTERMITTENT [-2] ODERATE [1] EDDIES [1] Indicate for reach - pools and riffles.	Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool/ Current Maximum 12
Indicate for fun	nctional riffles; Best areas must be la		ntion
of riffle-obligate RIFFLE DEPTH BEST AREAS > 10cm BEST AREAS 5-10cm BEST AREAS < 5cm [metric:	e species: Check ONE (O. RUN DEPTH RIFFLE / F [2] □ MAXIMUM > 50cm [2] □ STABLE (e.g. [1] □ MAXIMUM < 50cm [1] □ MOD. STABL □ UNSTABLE (r 2 & average). RUN SUBSTRATE RIFFLE / RU g., Cobble, Boulder) [2]	NO RIFFLE [metric=0] N EMBEDDEDNESS IONE [2] OW [1] MODERATE [0] Riffle / Run Maximum Maximum 8
6] GRADIENT (ft/mi) 🔼 VERY LOW - LOW [2-4]	%POOL:(()) %GLID	E: Gradient
DRAINAGE ARE		%RUN: %RIFFLI	

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in

Case No(s). 14-1557-EL-BGA

Summary: Application to Amend -- Exhibit D (Part 27 of 31) electronically filed by Mrs. Gretchen L. Petrucci on behalf of Hardin Wind LLC