Stream Drawing:	AJ SAMPLED REACH Check ALL that apply METHOD STAGE □ BOAT
The state of the s	BJ AESTHETICS NUISANCE ALGAE INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOS/SSOS/OUTFALLS ATION AREA DEPTH POOL: >100ft2 >3ft
TRING.	DJ MAINTENANCE PUBLIC /-PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE
	Circle some & COMMENT
Seame Samuella Samuel	BJ AESTHETICS BJ AESTHETICS BJ MAINTENANCE Circle some & COMMENT WWTP / CSO / Nepoes / Interect, Other/ Sampling observations, Concerns, Access directions, etc. BJ AESTHETICS BJ MAINTENANCE BUBLIC / PRIVATE BOTH / NA CONTAMINATED / LANDER / LORDED / LANDER / CONTAMINATED / LANDER / LANDER / CONTAMINATED / LAN
DEBRIS DE LA CONTRACTION DEL CONTRACTION DE LA C	F] MEASUREMENTS x width x depth max. depth bankfull x depth bankfull x depth bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:

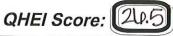
Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3): 30

Street Constitution	First Ocore (sum of metrics 1, 2, 3).
SITE NAME/LOCATION Stream Crossing	
SITE NUMBER_	
	LAT. 41.56929 LONG83.54901 RIVER CODE RIVER MILE
NOTE: Complete All Items On This For	m - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
STREAM CHANNEL NONE / NA MODIFICATIONS:	ATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY
SUBSTRATE (Estimate percent of ev	ery type of substrate present. Check ONLY two predominant substrate TYPE boxes
	cant substrate types found (Max of 8). Final metric score is sum of boxes A & B. PERCENT TYPE PERCENT Metric
BLDR SLABS [16 pts]	PERCENT TYPE PERCENT NIGHT
BOULDER (>256 mm) [16 pts]	0% LEAF PACK/WOODY DEBRIS [3 pts] 10%
BEDROCK [16 pt]	FINE DETRITUS [3 pts]
COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [9 pts]	OLAT OTTERNATION (OB)
SAND (<2 mm) [6 pts]	0% MUCK [0 pts] 0% 10 MUCK [10 pts] 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
T.1.1.6D	
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock _	5.00% (A) Substrate Percentage 100% (B) A + B
SCORE OF TWO MOST PREDOMINATE SUB	STRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 4
. Maximum Pool Depth (Measure the I	maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Pool De
evaluation. Avoid plunge pools from roa	ad culverts or storm water pipes) (Check ONLY one box): Max = :
> 30 centimeters [20 pts]	> 5 cm - 10 cm [15 pts]
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	< 5 cm [5 pts] NO WATER OR MOIST CHANNEL [0 pts]
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 0
3. BANK FULL WIDTH (Measured as the	e average of 3-4 measurements) (Check ONLY one box): Bankfu
> 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	L ≤ 1.0 m (<=3' 3") [5 pts] Max=3
COMMENTS	AVERAGE BANKFULL WIDTH (meters): 2.50 I 20
RIPARIAN ZONE AND FLOOD	This information <u>must</u> also be completed PLAIN QUALITY 와NOTE: River Left (L) and Right (R) as looking downstream와
RIPARIAN WIDTH	FLOODPLAIN QUALITY
L R (Per Bank)	L R (Most Predominant per Bank) L R
Wide >10m	Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old
Moderate 5-10m	Field Urban or Industrial
✓ ✓ Narrow <5m	Residential, Park, New Field Open Pasture, Row Crop
None None	Fenced Pasture Mining or Construction
COMMENTS	
FLOW REGIME (At Time of Ev.	aluation) (Check ONLY one box):
Stream Flowing	Moist Channel, isolated pools, no flow (Intermittent)
Subsurface flow with isolated po	
COMMENTS_	
	per 61 m (200 ft) of channel) (Check ONLY one box):
None 0.5	1.0 2.0 3.0 1.5 2.5 >3
	1.5
STREAM GRADIENT ESTIMATE	
Flat (0.5 ft/100 ft)	Moderate (2 ft/100 ft) Moderate to Severe

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed	<u>d):</u>
QHEI PERFORMED? - Yes V No QHEI Score (If Yes,	Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	_ Distance from Evaluated Stream
CWH Name:EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERS	
USGS Quadrangle Name: NRCS Soil Ma County: Wood Township / City:	ap Page: NRCS Soil Map Stream Order]
MISCELLANEOUS	0.00
Base Flow Conditions? (Y/N):_N _ Date of last precipitation:_	Quantity: 0.00
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 10%	
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:	
BIOTIC EVALUATION	
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections opti	onal. NOTE: all voucher samples must be labeled with the sit
Fish Observed? (Y/N) N Salamanders Observed? (Y/N)	N N
Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinverte	brates Observed? (Y/N) Voucher? (Y/N) N
Comments Regarding Biology:	
<u> </u>	
DRAWING AND NARRATIVE DESCRIPTION OF STREAT	M REACH (This must be completed):
Include important landmarks and other features of interest for site evaluation	
books CROPS	.
SURUB/SHIRUB	V/\
Substitution of the substi	VA
	DRY CHANNER
FLOW	- VA
SURUB/SHIRUB	
1	
	NOODY
	DEBRIS



Qualitative Habitat Evaluation Index and Use Assessment Field Sheet



Stream & Location: Stream Crossing 6	RM:	. Date: 8/7/14	
Scorers Full Name & Affiliation	K. SIMON (MS		
River Code:STORET #:(NAD 83 - decimal °)	23-183.5	5621 OH	ice verified location
The stimate of the control of the co	SILT	Verage) QUALITY □ HEAVY [-2] □ MODERATE [-1] □ NORMAL [0] □ FREE [1] □ EXTENSIVE [-2] □ MODERATE [-1] □ NORMAL [0] □ NONE [1]	1
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more comm quality; 2-Moderate amounts, but not of highest quality or in small amounts quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional under the comments of the commen	s of highest Ch r, large Ch Il pools. ERS [1] IN	AMOUNT seck ONE (Or 2 & a EXTENSIVE >75% MODERATE 25-75% SPARSE 5-<25% [NEARLY ABSENT Cov. Maximu	[11] % [7] 83] 85% [1]
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4]		Chan i Maximu	
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Control of the control of the category for EACH BANK (Control of the category for EACH BANK (Contr	TY CON	NSERVATION TILLA BAN OR INDUSTRI ING / CONSTRUCT edominant land use riparian. Riparia Maximu	AL [0] ION [0]
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH CHANNEL WIDTH CHECK ONE (ONLY!) Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply TORRENTIAL [-1] SLOW [1] POOL WIDTH = RIFFLE WIDTH [1] VERY FAST [1] INTERSTI Oncomposition of the property of	TIAL [-1] TENT [-2]	Recreation Poter Primary Conta Secondary Con ircle one and comment or Poo Curre Maximu	tact back)
Indicate for functional riffles; Best areas must be large enough to support of riffle-obligate species: Check ONE (Or 2 & average). RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RI	FLE / RUN E	n ⊠NO RIFFLE MBEDDEDNES [2]	SS .
6] GRADIENT (4.67 ft/mi)	%GLIDE: %RIFFLE:	0 Gradie	1 4

Scrans	HOM SMANN ZIBRATHAS	Stream Drawing:	AJ SAMPLED REACH Check ALL that apply METHOD STAGE BOAT 1st-sample pass-2nd
School Sthous	S. S	N CLZOF	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE
	ANDBAR W	()	Observed - Inferred, Othe
	Junon S Smorns		B] AESTHETICS D] MAINTENANCE Circle some & COMMENT E] ISSUES F] MEASURE
			F] MEASUREMENTS \(\overline{x} \) width \(\overline{x} \) depth \(\overline{x} \) bankfull width \(\overline{bankfull } \overline{x} \) depth W/ID ratio \(\overline{bankfull } \overline{x} \) depth W/ID ratio \(\overline{bankfull } \overline{x} \) depth floodprone \(x^2 \) width entrench. ratio Legacy Tree:

RALROAD

ChioEPA

Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score:	37
WHEI Score:	0

Stream & Location: Stream Crossing 7	RM: Date: 8/6/14
Scorers Full Name & Affiliation:	Katie Simon (MSG)
River Code: STORET #: Lat./Long.: Lat./Long.:	0 483.5559 Office verified location
11 SUBSTRATE Check ONLY Two substrate TYPE BOXES;	NE (Or 2 & average) QUALITY HEAVY [-2] SILT MODERATE [-1] FREE [1] Substrate 3 PREE [1] MAYIMUM MAYIMUM
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common quality; 2-Moderate amounts, but not of highest quality or in small amounts or quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional process of the common of the commo	of highest large Check ONE (<i>Or 2 & average</i>) cools. ☐ EXTENSIVE >75% [11] RS [1] ☐ MODERATE 25-75% [7] ES [1] ☐ SPARSE 5-<25% [3]
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4]	Channel Maximum 20
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or River right looking downstream RIPARIAN WIDTH FLOOD PLAIN QUALIT RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RIPARIAN WIDTH FOREST, SWAMP [3] SHRUB OR OLD FIELD [3	Y R CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0]
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH Check ONE (ONLY!) Check ONE (ONLY!) Check ONE (Or 2 & average) Dotal of the control of the contr	Pool / Current Maximum 4
Indicate for functional riffles; Best areas must be large enough to support a of riffle-obligate species: Check ONE (Or 2 & average). RIFFLE DEPTH BEST AREAS > 10cm [2] MAXIMUM > 50cm [2] MAXIMUM > 50cm [2] MAXIMUM < 50cm [1] BEST AREAS < 5cm [metric=0] Comments	Deposition □ NO RIFFLE [metric=0] LE / RUN EMBEDDEDNESS □ NONE [2] □ LOW [1] □ MODERATE [0] □ EXTENSIVE [-1] Maximum Maximum 8
DRAINAGE AREA	%GLIDE: 10 Gradient Maximum 10

Thurst wants and the same of t	Stream Drawing:	AJ SAMPLED REACH Check ALL that apply METHOD STAGE □ BOAT
A X X X X X X X X X X X X X X X X X X X	N.C.	BJAESTHETICS NUISANCE ALGAE INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN NUISANCE ODOR NUISANCE ODOR SLUDGE DEPOSITS CSOS/SSOS/OUTFALLS ATION AREA DEPTH POOL: \Rightarrow 100ft2 \Rightarrow 3ft
S don's X X X X X X X X X X X X X X X X X X X	NEUPS	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE
		Circle some & COMMENT
THE THE STATE OF T		BJAESTHETICS BJAESTHETICS BJAESTHETICS BJAESTHETICS Circle some & COMMENT WWTP / CSO / NeDes / Interest, Other/ Sampling observations, Concerns, Access directions, etc. BJAESTHETICS BJAESTHETICS BJAESTHETICS BUISANCE ACROPHYTES CIRCLE SOME & COMMENT WWTP / CSO / NeDes / INDUSTRY CONTAMINATED / LANDEILL BIRSCOLORATION CONTAMINATED / LANDEILL BANK / EROSION / SURFACE BANK / BEOLOOLING BANK / BEOSON / SURFACE WID ratio Bankfull width BANK / BEOSON / SURFACE WID ratio Bankfull width BANK / BEOSON / SURFACE WID ratio BANK / BEOLOOLING BANK / BEOLOOLING BANK / BEOLOOLING BANK / BEOLOOLING BANK / BEOSON / SURFACE WID ratio BANK / BEOLOOLING BANK / BEOSON / SURFACE BANK / BEOLOOLING BANK / BEOSON / SURFACE WID ratio BANK / BEOSON / SURFACE BANK / BEOLOOLING BANK / BEOLOOLING BANK / BEOSON / SURFACE WID ratio BANK / BEOLOOLING BANK / BEOSON / SURFACE WID ratio BANK / BEOLOOLING BANK / BEOSON / SURFACE WID ratio BANK / BEOLOOLING BANK / BEOLOO
		F] MEASUREMENTS \(\overline{\text{x}} \) width \(\overline{\text{x}} \) bankfull width bankfull \(\overline{\text{x}} \) depth wi/D ratio bankfull max. depth wi/D ratio bankfull max. depth floodprone \(x^2 \) width entrench. ratio Legacy Tree:

ChieFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

C	A	
O	4	

SITE NAME/LOCATION Stream Crossing	8
SITE NUMBER A	3000001 RIVER BASIN 04100010 DRAINAGE AREA (mi²) 0.26
LENGTH OF STREAM REACH (ft) 200	LAT. 41.58540 LONG83.50010 RIVER CODE RIVER MILE
DATE 08/14/14 SCORER K. Simon	n COMMENTS
NOTE: Complete All Items On This Form	n - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
STREAM CHANNEL NONE / NAME MODIFICATIONS:	TURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY
SUBSTRATE (Estimate percent of ever	ery type of substrate present. Check ONLY two predominant substrate TYPE boxes
	ant substrate types found (Max of 8). Final metric score is sum of boxes A & B. RECENT TYPE PERCENT HHEI Metric
BLDR SLABS [16 pts]	0% SILT [3 pt] 10% Points
BOULDER (>256 mm) [16 pts]	0% LEAF PACK/WOODY DEBRIS [3 pts] 50% 40% Substrate
BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts]	0%
GRAVEL (2-64 mm) [9 pts]	0% MUCK [0 pts] 0% 9
SAND (<2 mm) [6 pts]	0% ARTIFICIAL [3 pts] 0%
Total of Percentages of	0.00% (A) Substrate Percentage 100% (B) A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBS	
2. Maximum Pool Depth (Measure the n	paximum pool depth within the 61 meter (200 ft) evaluation reach at the time of
evaluation. Avoid plunge pools from roa > 30 centimeters [20 pts]	d culverts or storm water pipes) (Check ONLY one box): Max = 30 > 5 cm - 10 cm [15 pts]
> 22.5 - 30 cm [30 pts]	< 5 cm [5 pts]
> 10 - 22.5 cm [25 pts]	NO WATER OR MOIST CHANNEL [0 pts] 30
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 25
3. BANK FULL WIDTH (Measured as the	
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Width ≤ 1.0 m (<=3' 3") [5 pts] Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	
COMMENTS	AVERAGE BANKFULL WIDTH (meters): 3.50 25
92 Factor 10 To 2000 T.	
	This information must also be completed
RIPARIAN ZONE AND FLOODI RIPARIAN WIDTH	PLAIN QUALITY : 와NOTE: River Left (L) and Right (R) as looking downstream와 FLOODPLAIN QUALITY
L R (Per Bank)	L R (Most Predominant per Bank) L R
Wide >10m	Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old
Moderate 5-10m	Field Orban of industrial
✓ Narrow <5m	Residential, Park, New Field Open Pasture, Row Crop
None COMMENTS	Fenced Pasture Mining or Construction
FLOW REGIME (At Time of Ev.	aluation) (Check ONLY one box):
Stream Flowing	Moist Channel, isolated pools, no flow (Intermittent)
Subsurface flow with isolated por COMMENTS_	ols (Interstitial) Dry channel, no water (Ephemeral)
	per 61 m (200 ft) of channel) (Check ONLY one box):
None 0.5	1.0 1.5 2.0 3.0 >3
1 1/98/BG-6/1	
STREAM GRADIENT ESTIMATE Flat (0.5 ft/100 ft) Flat to Moderate	Moderate (2 ft/100 ft) Moderate to Severe Severe Severe (10 ft/100 ft)
Fiat (0.5 π/100 π)	Introduction (Entropy)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):			
QHEI PERFORMED? - Yes V No QHEI Score (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: NRCS Soil Map Page: NRCS Soil Map Stream Order			
County: Wood Township / City:			
MISCELLANEOUS			
Base Flow Conditions? (Y/N):_Y Date of last precipitation: Quantity: 0.00			
Photograph Information:			
Elevated Turbidity? (Y/N): N Canopy (% open): 50%			
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			
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):			
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location			
XXXX X DOGWOODS			
FLOW -> PHILAGINITES SANDAME WILLOW			



Qualitative Habitat Evaluation Index and Use Assessment Field Sheet



Stream & Location: Stream Crossing 9	RM:	Date:	8/14/14
Scorers Full Name & Affiliation:			
River Code:STORET #:Lat./Long.: \	8+83.	<u> 5040</u>	Office verified location
BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN LIMESTONE [1] LIME		QUALI HEAVY [- MODERA NORMAL FREE [1] EXTENSI MODERA NORMAL	2] TE [-1] Substrate [0] VE [-2]
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more commo quality; 2-Moderate amounts, but not of highest quality or in small amounts quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional 1 UNDERCUT BANKS [1] 0 POOLS > 70cm [2] 0 OXBOWS, BACKWATE 2 OVERHANGING VEGETATION [1] 1 ROOTWADS [1] 0 AQUATIC MACROPHY 0 ROOTMATS [1] 1 LOGS OR WOODY DEED COMMENTS	r, large pools. RS [1]	Check ONE (O.] EXTENSIVE] MODERATE] SPARSE 5-<] NEARLY AB	r 2 & average) >75% [11] 25-75% [7]
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY			
☐ HIGH [4] ☐ EXCELLENT [7] ☐ NONE [6] ☐ HIGH [3] ☐ MODERATE [3] ☐ GOOD [5] ☐ RECOVERED [4] ☐ MODERATE [2] ☐ LOW [2] ☐ FAIR [3] ☐ RECOVERING [3] ☐ LOW [1] ☐ POOR [1] ☐ RECENT OR NO RECOVERY [1] Comments		1	Channel 9
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (C	r 2 per bank	& average)	
River right looking downstream RIPARIAN WIDTH ROOD PLAIN QUALITY REROSION RIPARIAN WIDTH ROOD PLAIN QUALITY REROSION RIPARIAN WIDTH REROSION RIPARIAN WIDTH REROSION RIPARIAN WIDTH REROSION REROSION RIPARIAN WIDTH REROSION RIPARIAN WIDTH REROSION REROSION RESIDENTIAL, PARK, NEW FIELD RESIDENTIAL, PARK, NEW FIELD REROSION REROSION RIPARIAN WIDTH REROSION	TY R C	CONSERVATIO	TRUCTION [0]
Comments		ı	Maximum 6
Torrential [-1]	TIAL [-1] TENT [-2] 1]	(circle one and co	Contact y Contact
Indicate for functional riffles; Best areas must be large enough to support of riffle-obligate species: Check ONE (Or 2 & average).		NO	RIFFLE [metric=0]
☐ BEST AREAS > 10cm [2] ☐ MAXIMUM > 50cm [2] ☐ STABLE (e.g., Cobble, Boulder) [2] ☐ BEST AREAS 5-10cm [1] ☐ MAXIMUM < 50cm [1] ☐ MOD. STABLE (e.g., Large Gravel) [1] ☐ BEST AREAS < 5cm ☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]		N EMBEDDI ONE [2] OW [1] ODERATE [0] XTENSIVE [-1]	Riffle /
Comments			WIAXIIIUIII 8
6] GRADIENT (2.1 ft/mi) ☑ VERY LOW - LOW [2-4]) %GLIDE)%RIFFLE	=	Gradient Maximum 10

along bank			Stream Drawing:	AJ SAMPLED REACH Check ALL that apply METHOD STAGE BOAT St-sample pass-2nd HIGH HIGH
				BJAESTHETICS UNUSANCE ALGAE INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS AREA DEPTH POOL: >100ft2 >3ft
Scrubserrub				PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED
debn's				n/ Observed - Inferred, Other
	٠.	Overhand to		BJ AESTHETICS BI NUISANCE ALGAE EXCESS TURBIDITY SPRAY I SNAG, PED OUT / NA COUNG-SUCCESSION-OLD OIL SHEEN CICCLO SOME & COMMENT SPRAY I SNAG, PED OUT / NA LEYED / ONE SIDED NUISANCE DEPOSITS SLUDGE DEPOSITS SLUDGE DEPOSITS SLANDS / SCOURED MODIFIED / IDPED OUT / DRAINAGE MOUNG-BED, ODESICATED ATION AREA DEPTH POOL: >100ft2 >3ft POOD CONTROL / DRAINAGE BJ AESTHETICS DJ MAINTENANCE Circle some & COMMENT WATP / CSO / NDES INDUSTRY A WIGH CONTAMINATED / LANDELL BMPS-CONSTRUCTION-SEDIMENT X width CONTAMINATED / LANDELL BMPS-CONSTRUCTION-SEDIMENT X depth CONTAMINATED / LANDEL / LAGOON BANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY ATMOSPHERE / DATA PAUCITY BI MEASURE KOMMEN / DURACS SWIGH X depth X
Step		frees		F] MEASUREMENTS \overline{\text{x}} width \overline{\text{x}} depth max. depth \overline{\text{x}} bankfull width bankfull \overline{\text{x}} depth WID ratio bankfull max. depth Wloprone x ² width entrench. ratio Legacy Tree:

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

10/7/2014 3:31:58 PM

in

Case No(s). 14-1754-GA-BLN

Summary: Letter of Notification -- Exhibit G (Part 20 of 29) electronically filed by Mrs. Gretchen L. Petrucci on behalf of North Coast Gas Transmission LLC