Site: A	3000001	I, WETLA	NDS M & N	Rater(s)	: K. SIM	NC	Date: 8/29/14
ĺ		1					
	25.0						
]					
SU	btotal first pa	1		41 1			
0.0	25.0	Metric	5. Special W	etland	S.		
]					
max 10 pts.	subtotal		hat apply and score as indid Bog (10)	cated.			
			Fen (10)				
			Old growth forest (10)				
			Mature forested wetland (5)				
			∟ake Erie coastal/tributary v ∟ake Erie coastal/tributary v		-	=	
	0.0		_ake Plain Sand Prairies (O		-	ogy (3)	
			Relict Wet Prairies (10)	3	-, (-,		
			Known occurrence state/fed				
			Significant migratory songbi Category 1 Wetland. See C			• , ,	
		1 —	• ,				
1.0	26.0	wetric	c 6. Plant com	muniti	es, into	erspersion, microto	pograpny.
max 20 pts.	subtotal	So Wotlon	ad Vagatation Communities		logototion (Community Cover Scale	
1116X 20 pts.	Subtotal		nd Vegetation Communities resent using 0 to 3 scale.	·	0	Community Cover Scale Absent or comprises < 0.1ha (0.24)	71 acres) contiguous area
			Aquatic bed	-	1	Present and either comprises small	
			Emergent			vegetation and is of moderate q	
	1.0		Shrub 	=	2	significant part but is of low qual	-
			Forest Mudflats		2	Present and either comprises sign vegetation and is of moderate q	
		-	Open water			part and is of high quality	aam, or comprised a circum
			Other	-	3	Present and comprises significant	
			ntal (plan view) Interspersio	on.		vegetation and is of high quality	
		Select only	rone. High (5)		Narrative De	escription of Vegetation Quality	
			Moderately high(4)	=	low	Low spp diversity and/or predomin	nance of nonnative or
	4.0		Moderate (3)	_		disturbance tolerant native spec	
	1.0		Moderately low (2)		mod	Native spp are dominant compone	_
			_ow (1) None (0)			although nonnative and/or disturcan also be present, and specie	
			age of invasive plants. Refe	er		moderately high, but generally v	•
			ORAM long form for list. A	dd _		threatened or endangered spp	
			ooints for coverage		high	A predominance of native species	
	4.0	——.	Extensive >75% cover (-5) Moderate 25-75% cover (-3))		and/or disturbance tolerant native absent, and high spp diversity a	
	-1.0		Sparse 5-25% cover (-1)	,		the presence of rare, threatened	
			Nearly absent <5% cover (0				
			Absent (1)	<u>!</u>		Open Water Class Quality	
		6d. Microto	opograpny. resent using 0 to 3 scale.	-	<u>0</u>	Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 ac	res)
			egetated hummucks/tussu	ıcks	2	Moderate 1 to <4ha (2.47 to 9.88	
	0.0		Coarse woody debris >15cn	· · ·	3	High 4ha (9.88 acres) or more	
			Standing dead >25cm (10in	,	Microtonom	ronhy Coyer Soolo	
		0 A	Amphibian breeding pools	<u>!</u>	Viicrotopog	raphy Cover Scale Absent	
				-	1	Present very small amounts or if r	nore common
				_		of marginal quality	
					2	Present in moderate amounts, but	
				=	3	quality or in small amounts of hi Present in moderate or greater an	
					3	and of highest quality	TO WITE
26.0				-			

End of Quantitative Rating. Complete Categorization Worksheets.

Site: A3000001, WETLAND O			F	Rater(s): K. SIMON			Date: 9/3/14	
1.0	1.0 M	etric 1. We	etland Ar	ea (size).				
max 6 pts.	subtotal Sel	25 to <50 ac 10 to <25 ac 3 to <10 acre 0.3 to <3 acr X 0.1 to <0.3 a	nd assign score. 20.2ha) (6 pts) res (10.1 to <20. res (4 to <10.1ha es (1.2 to <4ha) (es (0.12 to <1.2ha cres (0.04 to <0. 0.04ha) (0 pts)	2ha) (5 pts) a) (4 pts) (3 pts) na) (2pts)				
1.0	2.0 M	etric 2. Up	land buf	fers and surro	unding	g land use.		
max 14 pts.	0.0	WIDE. Buffe MEDIUM. B NARROW. I X VERY NARR Intensity of surrour VERY LOW. LOW. Old fir MODERATE	ers average 50m uffers average 2: Buffers average COW. Buffers av nding land use. 2nd growth or celd (>10 years), s LY HIGH. Resid	elect only one and assign s (164ft) or more around we 5m to <50m (82 to <164ft) 10m to <25m (32ft to <82ft erage <10m (<32ft) around Select one or double chec older forest, prairie, savann shrub land, young second dential, fenced pasture, par	tland perime around wet t) around we d wetland pe k and avera ah, wildlife growth fores k, conserva	eter (7) land perimeter (4) etland perimeter (1) erimeter (0) ige. area, etc. (7) st. (5) tion tillage, new fallor	w field. (3)	
9.0	11.0 M	etric 3. Hy		n pasture, row cropping, m	iining, const	ruction. (1)		
max 30 pts.	subtotal 3a. 1.0 3c. 1.0	Perennial su Maximum water de >0.7 (27.6in) 0.4 to 0.7m (

					т
Site: A	3000001	, WETLAND O	Rater(s): K. SI	MON	Date: 9/3/14
su	21.5	i			
0.0	21.5	Metric 5. Spec	cial Wetlands.		
max 10 pts.	subtotal	Check all that apply and sco	ore as indicated.		
	0.0	Bog (10) Fen (10) Old growth forest Mature forested v Lake Erie coastal Lake Plain Sand Relict Wet Prairie Known occurrence Significant migrat	(10) wetland (5) //tributary wetland-unrestricted h //tributary wetland-restricted hyd Prairies (Oak Openings) (10)	drology (5) ndangered species (10) or usage (10)	
1.0	20 E	Metric 6. Plan	t communities, ir	nterspersion, microto	opography.
-1.0	20.5		,	• ,	1 3 1 7
max 20 pts.	subtotal	6a. Wetland Vegetation Co	mmunities. Vegetation	on Community 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	all part of wetland's
		0 Emergent		vegetation and is of moderate of	quality, or comprises a
	0.0	0 Shrub		significant part but is of low qua	-
		o Forest	2	Present and either comprises sig	nificant part of wetland's
		0 Mudflats		vegetation and is of moderate of	quality or comprises a small
		Open water		part and is of high quality	
		0 Other	3	Present and comprises significan	t part, or more, of wetland's
		6b. horizontal (plan view) II	nterspersion.	vegetation and is of high quality	/
		Select only one.			
		High (5)	Narrative	Description of Vegetation Quality	
		Moderately high(4	4) low	Low spp diversity and/or predom	nance of nonnative or
	0.0	Moderate (3)		disturbance tolerant native spe	cies
	0.0	Moderately low (2	2) mod	Native spp are dominant compon	ent of the vegetation,
		Low (1)		although nonnative and/or distu	rbance tolerant native spp
		X None (0)		can also be present, and specie	es diversity moderate to
		6c. Coverage of invasive p		moderately high, but generally	w/o presence of rare
		to Table 1 ORAM long form	for list. Add	threatened or endangered spp	
		or deduct points for coverage	ge high	A predominance of native specie	s, with nonnative spp
		Extensive >75%	cover (-5)	and/or disturbance tolerant nati	ve spp absent or virtually
	-1.0	Moderate 25-75%	6 cover (-3)	absent, and high spp diversity a	
		X Sparse 5-25% co		the presence of rare, threatene	d, or endangered spp
		Nearly absent <5			
		Absent (1)	Mudflat a	and Open Water Class Quality	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to	-	Low 0.1 to <1ha (0.247 to 2.47 a)	
		0 Vegetated humm		Moderate 1 to <4ha (2.47 to 9.88	3 acres)
	0.0	Coarse woody de	` '	High 4ha (9.88 acres) or more	
		0 Standing dead >2	` ,		
		Amphibian breed		ography Cover Scale	
			0	Absent	
			1	Present very small amounts or if	more common
				of marginal quality	t and of high and
			2	Present in moderate amounts, bu	
				quality or in small amounts of h	
-	Ī		3	Present in moderate or greater a	nounts
20.5				and of highest quality	
20.5					

End of Quantitative Rating. Complete Categorization Worksheets.

APPENDIX C STREAM ASSESSMENT DATA FORMS



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

2	7

SITE NAME/LOCATION Stream Crossing 1
SITE NUMBER A3000001 RIVER BASIN 04100009 DRAINAGE AREA (mi²) 0.04
LENGTH OF STREAM REACH (ft) 200 LAT. 41.53550 LONG83.63140 RIVER CODE RIVER MILE
DATE 08/06/14 SCORER K. Simon COMMENTS
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY MODIFICATIONS:
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.
BLDR SLABS [16 pts] 0% SILT [3 pt] 100% Poin
BOULDER (>256 mm) [16 pts]
BEDROCK [16 pt]
GRAVEL (2-64 mm) [9 pts] 0% MUCK [0 pts] 0%
SAND (<2 mm) [6 pts] 0% ARTIFICIAL [3 pts] 0%
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock O.00% (A) Substrate Percentage 100% (B) A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 1
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] Max =
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]
> 10 - 22.5 cm [25 pts]
COMMENTS MAXIMUM POOL DEPTH (centimeters): 0
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Bankf
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.0 m (< 3' 3" - 4' 8") [15 pts] Width Max=3
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]
COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00 20
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY \$\frac{1}{2}\text{NOTE}: \text{River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{River Left (L)} and \text{River Left (L)} and \t
RIPARIAN ZONE AND FLOODPLAIN QUALITY 가이지E: River Left (L) and Right (R) as looking downstream가 RIPARIAN WIDTH FLOODPLAIN QUALITY
L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m Mature Forest, Wetland Conservation Tillage
Immalure Forest, Shrub or Old
Field Cross Resture Pays Coast
Narrow <5m Residential, Park, New Field Open Pasture, Row Crop
None Fenced Pasture Mining or Construction COMMENTS
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):
Stream Flowing Moist Channel, isolated pools, no flow (Intermittent)
Subsurface flow with isolated pools (Interstitial) Ony channel, no water (Ephemeral) COMMENTS
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):
None 1.0 2.0 3.0
STREAM GRADIENT ESTIMATE Flat (0.5 ft/100 ft) Flat to Moderate Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/100 ft)

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: CWH Name: Distance from Evaluated Stream Distance from Evaluated Stream						
EWH Name:						
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): N Date of last precipitation: Quantity: 0.00						
Photograph Information:						
Elevated Turbidity? (Y/N): N 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:						
BIOTIC EVALUATION						
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 Vouc						
Comments Regarding 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						
WLIERT SOY BEANS						
FLOW - VECTORIES CHANTEL						
SOY BEANS						

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

2	22	

SITE NAME/LOCATION Stream Crossing 2		
SITE NUMBER A3000	0001 RIVER BASIN 04100009 DRAINAGE AREA (mi²) 0.	08
	41.52880 LONG83.60040 RIVER CODERIVER MILE	
DATE 08/06/14 SCORER K. SIMON	COMMENTS	
NOTE: Complete All Items On This Form - Re	efer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	ctions
STREAM CHANNEL NONE / NATURA MODIFICATIONS:	AL CHANNEL RECOVERED RECOVERING RECENT OR NO RECO	OVERY
SUBSTRATE (Estimate percent of every type	pe of substrate present. Check ONLY two predominant substrate TYPE boxes	with a state of the state of th
(Max of 32). Add total number of significant su TYPE PERCE	ubstrate types found (Max of 8). Final metric score is sum of boxes A & B. ENT TYPE PERCENT	HHEI Metric
BLDR SLABS [16 pts] 0%	7 7 SILT [3 pt] 0%	Points
BOULDER (>256 mm) [16 pts] 0% BEDROCK [16 pt] 0%	LEAF PACK/WOODY DEBRIS [3 pts] 0%	Substrate
COBBLE (65-256 mm) [12 pts] 0%	FINE DETRITUS [3 pts] CLAY or HARDPAN [0 pt] 0%	Max = 40
GRAVEL (2-64 mm) [9 pts] 0%	MUCK [0 pts]	-
SAND (<2 mm) [6 pts] 0%	ARTIFICIAL [3 pts] 0%	'
Total of Percentages of 0.00%	6 (A) Substrate Percentage 0% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRAT		0 5
2. Maximum Pool Depth (Measure the maximu		Deel Deed
evaluation. Avoid plunge pools from road culve	erts or storm water pipes) (Check ONLY one box):	Pool Dept Max = 30
> 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts]	> 5 cm - 10 cm [15 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts]	NO WATER OR MOIST CHANNEL [0 pts]	0
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 0	No. of Contract of
3 BANK FULL WIDTH (Measured as the avera		
> 4.0 meters (> 13') [30 pts]	age of 3-4 measurements) (Check ONLY one box): > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankfull Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	≤ 1.0 m (<=3' 3") [5 pts]	Max=30
COMMENTS	AVERAGE BANKFULL WIDTH (meters): 1.50	15
	This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN	QUALITY TYNOTE: River Left (L) and Right (R) as looking downstream the	
	OODPLAIN QUALITY R (Most Predominant per Bank) L R	
Wide >10m	Mature Forest, Wetland Conservation Tillage	
Moderate 5-10m	Immature Forest, Shrub or Old Urban or Industrial	
Narrow <5m	Residential, Park, New Field Open Pasture, Row Crop	
None	Fenced Pasture	
COMMENTS		
FLOW REGIME (At Time of Evaluation	n) (Check ONLY one box):	
Stream Flowing Subsurface flow with isolated pools (Inte	Moist Channel, isolated pools, no flow (Intermittent) erstitial) Dry channel, no water (Ephemeral)	
COMMENTS	Dry channel, no water (Epitemeral)	
SINUOSITY (Number of bends per 61 i	m (200 ft) of channel) (Check ONLY one box):	
None 1.0	2.0	
Section Sectio	2.5	
STREAM GRADIENT ESTIMATE Flat (0.5 ft/100 ft) Flat to Moderate	Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/100	fn)
ar-resolves (*1995) 2000 000 000 000 000 000 000 000 000 0		19

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: CWH Name: Distance from Evaluated Stream Distance from Evaluated Stream 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):_ N Date of last precipitation: Quantity:0.00						
Photograph Information:						
Elevated Turbidity? (Y/N): N Canopy (% open): 30%						
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 optional. NOTE: all voucher samples must be labeled with the sit						
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 Vouc						
Comments Regarding Biology:						
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						
MERHANGING						
× × × × × × × × × × × × × × × × × ×						
FLOW T						
-x x x x x x x x x x x x x x						

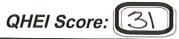
Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3): SITE NAME/LOCATION Stream Crossing 3 SITE NUMBER A3000001 **RIVER BASIN 04100010** DRAINAGE AREA (mi²) 0.15 200 LAT. 41.53890 LONG. -83.56920 RIVER CODE LENGTH OF STREAM REACH (ft) RIVER MILE DATE | 08/06/14 SCORER K. SIMON COMMENTS NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions NONE / NATURAL CHANNEL ☐ RECOVERED ☐ RECOVERING ☐ RECENT OR NO RECOVERY STREAM CHANNEL **MODIFICATIONS:** SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes HHEI (Max of 32), Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. Metric PERCENT PERCENT TYPE **Points** BLDR SLABS [16 pts] 100% SILT [3 pt] 0% BOULDER (>256 mm) [16 pts] LEAF PACK/WOODY DEBRIS [3 pts] 0% 0% Substrate 0% 0% BEDROCK [16 pt] FINE DETRITUS [3 pts] Max = 400% 0% COBBLE (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] 0% 0% GRAVEL (2-64 mm) [9 pts] MUCK [0 pts] 7 0% 0% SAND (<2 mm) [6 pts] ARTIFICIAL [3 pts] Total of Percentages of (B) 0.00% A+B 100% Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Pool Depth Max = 30evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 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] 0 0 COMMENTS MAXIMUM POOL DEPTH (centimeters): BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Bankfull > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Width > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 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): 2.50 20 This information must also be completed 강NOTE: River Left (L) and Right (R) as looking downstream와 RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY (Per Bank) (Most Predominant per Bank) R Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Moderate 5-10m Urban or Industrial Open Pasture, Row Crop Narrow <5m Residential, Park, New Field None Fenced Pasture Mining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent) Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral) COMMENTS_ SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): 1.0 2.0 3.0 None 0.5 1.5 2.5 >3 STREAM GRADIENT ESTIMATE Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/100 ft) Flat (0.5 ft/100 ft) Flat to Moderate

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: CWH Name: EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream					
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHEE	DAREA. CLEARLY MARK THE SITE LOCATION					
USGS Quadrangle Name: NRCS Soil Map F	Page: NRCS Soil Map Stream Order					
County: Wood Township / City:						
MISCELLANEOUS						
Base Flow Conditions? (Y/N):_ N Date of last precipitation:_	Quantity: 0.00					
Photograph Information:						
Elevated Turbidity? (Y/N): N 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.)						
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 optional ID number. Include appropriate field data sheets from the Pri						
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrate	Voucher? (Y/N) N					
Comments Regarding Biology:	N vocale: (IIII)					
DRAWING AND NARRATIVE DESCRIPTION OF STREAM F	PEACH (This must be completed):					
Include important landmarks and other features of interest for site evaluation an	nd a narrative description of the stream's location					
COUPEANS, WHEN	I					
SOY PEANS, WHEN						
FLOW - VEGETATED CHANNEL	DADLEAT					
WHEAT						



Qualitative Habitat Evaluation Index and Use Assessment Field Sheet



Stream & Location: Stream Crossing 4		_ RM:	Date: 8/6/14
Physic Code:	Scorers Full Name & Affiliation:	70	
	RET#: Lat./Long.: 4], 549	19 +83.56	PS Office verified location □
BLDR /SLABS [10]	e present HER TYPES HARDPAN [4] DETRITUS [3] MUCK [2] SILT [2] ARTIFICIAL [0] (Score natural substrates; ignore [2] sludge from point-sources) Check (Core natural substrates) RIMESTONE [1] METLANDS [0] RIP/RAP [0] RIP/RAP [0]	SILT MM SILT NO	QUALITY EAVY [-2] ODERATE [-1] Substrate ORMAL [0]
quality; 2-Moderate a quality; 3-Highest quality in moderate or greater a diameter log that is stable, well developed rootwa	to 3: 0-Absent; 1-Very small amounts or if more commo amounts, but not of highest quality or in small amounts amounts (e.g., very large boulders in deep or fast water of deep, well-defined, functional POOLS > 70cm [2] OXBOWS, BACKWATE ROOTWADS [1] AQUATIC MACROPHY BOULDERS [1] LOGS OR WOODY DE	of highest r, large Check (I pools. ERS [1] MODI TES [1] SPAR	AMOUNT ONE (Or 2 & average) ENSIVE >75% [11] ERATE 25-75% [7] RSE 5-<25% [3] RLY ABSENT <5% [1] Cover Maximum 20 7
□ HIGH [4] □ EXCELLENT [7] □ N □ MODERATE [3] □ GOOD [5] □ R □ LOW [2] □ FAIR [3] □ R	in each category (Or 2 & average) CHANNELIZATION STABILITY IONE [6]	27	Channel 9
A] BANK EROSION AND RIPARIAN ZO River right looking downstream RIPARIAN V RIP	4] GOREST, SWAMP [3] 0-50m [3] SHRUB OR OLD FIELD [2] Dm [2] RESIDENTIAL, PARK, NEW FIELD	TY CONSER	RVATION TILLAGE [1] OR INDUSTRIAL [0] CONSTRUCTION [0]
5] POOL / GLIDE AND RIFFLE / RUN Q MAXIMUM DEPTH Check ONE (ONLY!) □ > 1m [6] □ 0.7-<1m [4] □ 0.4-<0.7m [2] □ 0.2-<0.4m [1] □ < 0.2m [0] Comments	WIDTH 2 & average) FLE WIDTH [2] TORRENTIAL [-1] ☑ SLOW [1] FLE WIDTH [1] VERY FAST [1] UNITED STITEMENT OF THE PROPERTY OF THE PROPERT	FIAL [-1] TENT [-2]	eation Potential mary Contact ondary Contact ne and comment on back) Pool / Current Maximum 12
of riffle-obligate species: RIFFLE DEPTH RUN DEPTH □ BEST AREAS > 10cm [2] □ MAXIMUM > 50ci	areas must be large enough to support a Check ONE (<i>Or 2 & average</i>). H RIFFLE / RUN SUBSTRATE RIFF m [2] □ STABLE (e.g., Cobble, Boulder) [2] m [1] □ MOD. STABLE (e.g., Large Gravel) [1] □ UNSTABLE (e.g., Fine Gravel, Sand) [0]	FLE / RUN EMB	NO RIFFLE [metric=0]
6] GRADIENT (2.9 ft/mi) ☑ VERY LOW DRAINAGE AREA ☐ MODERAT (3.83 mi²) ☐ HIGH - VEI	E [6-10]	%GLIDE: 0 %RIFFLE: 0	Gradient 4

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in

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

Summary: Letter of Notification -- Exhibit G (Part 19 of 29) electronically filed by Mrs. Gretchen L. Petrucci on behalf of North Coast Gas Transmission LLC