Profile Description: (Describe to the dept	th needed to document the indicator or confirm	the absence of	of indicators.)
Depth <u>Matrix</u>	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture	Remarks
0-16 104R 413 100		Sil	
16+ "		-	Rock refusal
-0-			
			·····
		<u> </u>	
	Reduced Matrix, MS=Masked Sand Grains.		Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indical	ors for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)		m Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,		ast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)		(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		edmont Floodplain Soils (F19)
Stratified Layers (A5) 2 cm Muck (A10) (LRR N)	Depleted Matrix (F3) Redox Dark Surface (F6)		(MLRA 136, 147) ry Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		her (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 136)		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)		ators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14		and hydrology must be present,
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147) unie	ess disturbed or problematic.
Restrictive Layer (if observed):			
			Present? Yes Nd
Depth (inches):		Hydric Soil F	Present? Yes No
Remarks:			
	hydre soil i		
		$\sqrt{1}$	turs presentr
Als	la la soil i	4000	
100	VIJani		/
/			

WETLAND DETERMINATION DATA FORM	Eastern Mountains and Piedmont Region / /
Project/Site: EHP 978 City/C	County: Manroe Co. Sampling Date: 4/2/2019
Applicant/Owner: Eureling Michel	State: 014 Sampling Point: 1904027440
	on, Township, Range: / Yor's Twp
	ief (concave, convex, none): 1270 Slope (%): 1270
Subregion (LRR or MLRA):	5_ Long: -80, 854813 Datum: NA193
Soil Map Unit Name: GKG- Gilpm-Upshur Silt	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	bed? No
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing san	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	to the Converted Aver
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No/
Wetland Hydrology Present? Yes No	
Remarks: Scalar and the Concernment &	wood/and habitat on a
Sampling point documents	
hillstope	
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) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Od	or (C1) Drainage Patterns (B10)
	es on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Recent Iron Reductio	· · · · · · · · · · · · · · · · · · ·
Drift Deposits (B3) Thin Muck Surface (C	
Algal Mat or Crust (B4)Other (Explain in Rer	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>No</u> Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Reindiks.	
1. 1/1	
No wetland	Ny Woldgy.
100 0000	
13	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: 190402-1900

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30'C)		Species?		Number of Dominant Species
1. Celtis occidentalis	28	~	FACU	That Are OBL, FACW, or FAC:
2. Aesculus Elava	10	$\overline{}$	Chan	
			FITCO	Total Number of Dominant
3. Leg land night			FACU	Species Across All Strata: (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>37,590</u> (A/B)
6				That Are OBL, FACW, or FAC: <u>37, 57</u> (A/B)
				Prevalence Index worksheet:
7		·		Total % Cover of: Multiply by:
	کیکہ	= Total Cov	erior	
50% of total cover: 24r	20% of	f total cover:	0.0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15°)		1		FACW species x 2 =
1. Rosa multiflora	15		FACU	FAC species x 3 =
	12		GAC	FACU species x 4 =
2. Lindera henzoin	14		THE	· · · · · · · · · · · · · · · · · · ·
3. Lanicera Morrowii			FACU	UPL species x 5 =
4. Celtis occidentalis	6		EACU	Column Totals: (A) (B)
5				
				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	U	= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: (20,5	20% of	- rotor COV	9.2	4 - Morphological Adaptations ¹ (Provide supporting
	20 /0 0			data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	4.0		C. *	Problematic Hydrophytic Vegetation ¹ (Explain)
1. POACEAEX	20		FAC*	
2. Geranium Carolinianum	12	N.	VPL	
3. Planthan Jancon lata		N	UPL	¹ Indicators of hydric soil and wetland hydrology must
			The co	be present, unless disturbed or problematic.
4. Galium maluce			FACI	Definitions of Four Vegetation Strata:
5				The Miner in the state of the state of the (7.0 cm) as
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
				in signa
8				Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	47	= Total Cove	er i i i i i i i i i i i i i i i i i i i	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2315	20% of	= Total Cover:	9.4	
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in
woody vine stratum (Plot size:)	-7		TA-	height.
1. VITIS SPS	—		THE	
2				
3				
4				
E				Hydrophytic /
ə	-		<u> </u>	Vegetation
		= Total Cove		Present? Yes No
50% of total cover:		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)		1 -	
Kong and the WOrld in com	ies' a	55,8.612	J FA.	C
* Grass not identified to spec	" (J. Y.	- 1.24	-
stal vitis		\mathcal{O}	,	1 1
		\cap	1	I du upportention
	1	- h	ynn	pring the veryer
110 1h 2,200		• • •	(
/ • /				c iphytic vegetertion
rocent	د .			
121 530				

SOIL

Sampling Point: 190402-1400

Depth	Matrix		Redo	c Features	5			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-1	1011 3/2	in					-yiL	
1-4	INR 4/2	100					SiL	
1. 1/2.	Talla Lite						6:1	
4-19	104K 414.	100					2/2	
	· · · · · · · · · · ·							
	······································							
1								
	ncentration, D=Deple	tion, RM=	Reduced Matrix, MS	i=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil I							Indicators for Problematic Hydr	
Histosol	• •		Dark Surface				2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be					
Black His			Thin Dark Su			47, 148)	(MLRA 147, 148)	
	n Sulfide (A4) Layers (A5)		Loamy Gleye		F2)		Piedmont Floodplain Soils (F	19)
	ck (A10) (LRR N)		Redox Dark S		6)		(MLRA 136, 147) Very Shallow Dark Surface (T	E12)
	Below Dark Surface	(A11)	Depleted Dar				Other (Explain in Remarks)	112)
	rk Surface (A12)	(211)	Redox Depre					
	ucky Mineral (S1) (LR	RN.	Iron-Mangane			.RR N.		
	147, 148)		MLRA 13					
	leyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	³ Indicators of hydrophytic vegeta	ation and
•	edox (S5)		Piedmont Flo					
Stripped	Matrix (S6)		Red Parent M	aterial (F	21) (MLR/	A 127, 147		
Restrictive L	ayer (if observed):							, de
Туре:								1
Depth (inc	hes):						Hydric Soil Present? Yes	No 🔽
Remarks:							I	

No indicators of hydric Soil.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site:
Are Vegetation, Soil, or Hydrology adurally 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 within a Wetland? No Hydric Soil Present? Yes No Is the Sampled Area within a Wetland? No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? No
Remarks: Sampling point documents planted pine ferrest
Val v g
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply)
Remarks: No indicators of hydrology,

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: 190402 -1630

	Absolute Dominant Indicator	Dominance Test worksheet:
1. Pinus Strabus	% Cover Species? Status	Number of Dominant Species
2		That Are OBL, FACW, or FAC: (A)
3		Species Across All Strata: (B)
5		Percent of Dominant Species (A/B)
6 7		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: <u>Multiply by:</u>
50% of total cover:	20% of total cover:	OBL species x 1 = FACW species x 2 =
1. Fagus grandi folig	5 V FAG	
		FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: (A) (B)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7 8		1 - Rapid Test for Hydrophytic Vegetation
a		2 - Dominance Test is >50%
	Total Cover	3 - Prevalence Index is ≤3.0 ¹
50% of total cover:	20% of total cover:	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:)		data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation ¹ (Explain)
2		
3		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4/ <u>V./</u> /Ţ		Definitions of Four Vegetation Strata:
5		-
6 7		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		Sapling/Shrub - Woody plants, excluding vines, less
9 10		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11	= Total Cover	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:	20% of total cover:	Woody vine – All woody vines greater than 3.28 ft in height.
1		
2		
3//////		
4		Hydrophytic
	- Total Cavar	Present? Yes No
50% of total cover:	= Total Cover 20% of total cover:	
Remarks: (Include photo numbers here or on a separate s	sheet.)	
Planted wil	hite pile a	Jon hante
	1	

SOIL

JUIL		Sumpling Foling
Profile Description: (Describe to the depth	needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) / %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-6 104R413 100		SiL
G-19 INTRULY 100		SZ
1010 - 1010		
		······································
<u> </u>		
¹ Type: C=Concentration, D=Depletion, RM=R	educed Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	3
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soits (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	 unless disturbed or problematic.
Restrictive Layer (if observed):		
Туре:	_	V
Depth (inches):	_	Hydric Soil Present? Yes No
Remarks:		
		<u> </u>
1 1	land soil prot	_ 10
	land soil 100	· (* -
	1000 -	
	V	
,		

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region
Project/Site: <u>EITP 4/B</u> City/County: <u>Manyae Cor</u> Sampling Date: <u>4/2/19</u>
Applicant/Owner: Evreka Milsheam UC State: OH Sampling Point: 190402-1540
Investigator(s): Evan McClang Section, Township, Range: Ohio Township
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%).
Subregion (LRR or MLRA): URR-N Lat 9. 708/13 Long: -80, 89802 Datum: NAD83
Soil Map Unit Name GKE2- Gilph-Upshur complex, 18-35% slopes, mad. NWI classification: U/A
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 "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? //// (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Sommer of The Montes - Attach site map showing sampling point locations, induscets, important leaders, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No
Remarks: Sampling point documents PEM habitat in three Wetlands: W-140402-1530, -1545, and -1555. The wetlands
have developed within an existing pipeline ROW.
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) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)
Cxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)
Inundation Visible on Aerial Imagery (B7)
Water-Stained Leaves (B9)
Aquatic Fauna (B13)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Werland by woolgy is present.

US Army Corps of Engineers

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: 190402 - 1540

	annes or	prartes		Sampling Found
Tree Stratum (Plot size: ent. in wetland		Dominant Species?	<u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: (B)
4			·	Percent of Dominant Species
5 6				That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet:
7				
		= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:		total cover		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: Cn fife werfor)				FACW species x 2 =
Saping/Shildo Stratom (Flot Size. Child Doc 100				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4.			-	Column Totals: (A) (B)
5				
				Prevalence Index = B/A =
6,				Hydrophytic Vegetation Indicators:
/			·	1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	er	
50% of total cover:	20% of	total cover		4 - Morphological Adaptations' (Provide supporting
Herb Stratum (Plot size: 5 C)				data in Remarks or on a separate sheet)
1. Typha angustifolia	40		SRL.	Problematic Hydrophytic Vegetation ¹ (Explain)
	-23			
2. Chinex unelpiheiden			<u> </u>	¹ Indicators of hydric soil and wetland hydrology must
3. Juncus ElGusus	10		FACU	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				- -
6				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8			·	Sapling/Shrub - Woody plants, excluding vines, less
9			·	than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: entrice we fland	!			Woody vine – All woody vines greater than 3.28 ft in height.
1				Tugets
2 . 17				
			·	
3				
4				Hydrophytic
5				Vegetation
	:	= Total Cov	er	Present? Yes No
50% of total cover:	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)		~	
		1	$\langle \cdot \rangle$	andrance Test.
In la Lim	INA	rets])0	anitance let.
Vece tat.	100		0	
• (7				

SOIL

Sampling	Point:	904	02
oumpring	· onne -		1 6 6

10

Profile Description: (Describe to the depth needed to document	he indicator or confirm the a	bsence of indicators.)
Depth Matrix Redox Fea	tures	
	<u>6 Type' Loc² Te</u>	xture Remarks
D-2 104R 3/2 100	<u> </u>	<u></u>
2-8 104R 4/2 95 7.54R 4/6 4	$C \subset M \subset$	2
8-16 IDYRY/1 95 7.54/4/6 5		• 5
8-14-10-R-91 -03 -0.3 11.116 - 2		
<u></u>		Rock Rfussi
· · · · · · · · · · · · · · · · · · ·		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Ma	sked Sand Grains	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	urface (S8) (MLRA 147, 148)	Coast Prairie Redox (A16)
	(S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4) Loamy Gleyed Ma		Piedmont Floodplain Soils (F19)
Stratified Layers (A5)		(MLRA 136, 147)
2 cm Muck (A10) (LRR N) Redox Dark Surfa		Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Sur		Other (Explain in Remarks)
Depleted Below Dark Surface (A17) Depleted Dark Surface (A12) Redox Depression		
	asses (F12) (LRR N,	
	lasses (F12) (CRR N,	
	13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
	in Soils (F19) (MLRA 148)	wetland hydrology must be present,
	al (F21) (MLRA 127, 147)	untess disturbed or problematic.
Restrictive Layer (if observed):		diffess distanced of problematic.
-		
Type:		
Depth (inches):	Нус	tric Soil Present? Yes No
Remarks:		
F3, h dicate	\wedge \prime	
PO 1 Mart	r for hy	while souls
FS naicare	/	

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region
NETLAND DETERMINATION DATAFORM - Lastern mountains and Predition Region Project/Site: EHP 418 - 000 City/County: Midd VOR (middy Sampling Date: 7/24/2019 Applicant/Owner: EUVIEVA Midd for 600 Investigator(s): Significant/Omericant/Opericant/O
Hydric Soil Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Image: Sampled Area within a Wetland? Yes No
Remarks: Sample point Iscated in dense, young deciduous ferest on a steep south-facing hullslope above SIZ 7. Adjount to an existing pipeline Row, Representative of surrounding upland forest habitat.
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required, check all that apply) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sutfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Participen Neuronic Research Face-Neutral Test (D5)
Surface Water Present? Yes No Volume Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No
Remarks:
No primary de secondary wetland hydrology indicators present. Does not satisfy wetland hydrology criticia.

VEGETATION - Use scientific names of plants.

Sampling Point: 5190724 0945

·····					A. N		
Tree Stratum	(Plot eizer	30'R	Absolute } % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	0
						Number of Dominant Species That Are	-5
1. Ulmus rubra			- 42		FAC	OBL, FACW, or FAC:	(A)
2 Aesculus alabe	<u>a</u> ,		20			Total Number of Dominant Species	1
3. Fagus grand. El	la		3		FACU	Across All Strate:	(B)
4.							12000
5						Percent of Dominant Species That Are OBL, FACW, or FAC:	42.7% (A/B)
6							
7						Prevalence Index worksheet:	
			48	= Total Cove	er	Total % Cover of:	Multiply by:
		10 10					x 1 =
Sapling/Shrub Stratum		15 R	10		FALU	FACW species	
1. Aesculus glabic					FACO		x3=
3. Lindura benzain			- <u> </u>		FAC	FACU species	
4. Rosa multifleri					FAIL	· · · · · · · · · · · · · · · · · · ·	(A) (B)
5							
6						Prevalence Index *	= B/A =
7							
8						Hydrophytic Vegetation Indicators	
9							Hydrophytic Vegetation
10			64	= Total Cov		2 - Dominance Tes	
			47		G1		ex is \$3.0" Adaptations ¹ (Provide supporting
Herb Stratum	(Plot size:	5°L	.)			11	or on a separate sheet)
1. Pilea pumila 2. Dathonocissus ou			7		FAIN		phytic Vegetation ¹ (Explain)
2. Darthonocissus au	malleh	ha.			FATCU		
3. VOCO MULTILICICA			5		FATU	¹ Indicators of hydric soil and wettan	
4. Alliging petiolate			<u> </u>		PALU	be present, unless disturbed or prot	plematic.
5. Mibla Sororla 6. Lindera benzuin					FAC	Definitions of Vegetation Strata:	
7. Aggrating altisti	00.0		8		FAC		dens dits and south and the
8. V					FFILO	Tree - Woody plants, excluding diameter.	vines, 3 in. (7.5 cm) or more in
9							
10							
11						Sapling/Shrub- Woody plants,	
12						DBH and greater than or equal t	lo 3.28 ft (1 m) tall.
			75	= Total Cov	/er		
						Herb • All herbaceous (non-woo	rdy) plants, regardless
Woody Vine Stratum	(Plot size:	BOR)	,		of size, and woody plants less th	
1. VITIS LOBRING	f. 101 0100 -		10	<u> </u>	FAIL		
2. Conicera in comi	10		2		FAIN		
3. Parthanacistus el	windue	Falia	2		FACU	Woody Vines - All woody vines	greater than 3.28 ft in
4						height.	
5						4 [
6				= Total Cov			
				_ 10001001	+ -		
						Hydrophytic	
						Vegetation	/
						Present? Yes	s No
						<u> </u>	
Vegetation Remarks: (Include pho							
Vegetation does no veget	۸	1- ilon	Cillor	in l	2.1	had a b	
Negetunica does no	I ne	+ +NR	CINTER	147	wan	y marciphym	C
	h to a	1. 1.	LANDS				
Veget	ancy	Incli(0	it upcs.		-199		
V							

c	0	1	1	
0	U	1	ł	

Sampling Point: SP 196724 0945

Soil Profile De	escription: (Describe to Matrix	the depth nee	eded to document	the Indicator o		ie absence	of indicators.)	
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-2	104R 3Z	100					SiL	
2-5	754R 43	100					SiL	
5-15+	7.5-12-414	1(10					Sid	
	·	· ·					·	
¹ Type: C=con	centration, D=Depletion,	RM=Reduced	Matrix, MS=Maske	ed Sand Grains			² Location: PL=Pore	Lining, M=Matrix.
Hydric Soll In	dicators:	<u> </u>					Indicators for Prob	lematic Hydric Solls ³ :
Black His Hydroger Stratified 2 cm Mu Depleted Thick Da Sandy M MLRA 1 Sandy G Sandy R Sandy R Stripped	ipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) ck (A10) (LRR N) d Below Dark Surface (A ark Surface (A12) lucky Mineral (S1) (LRR	N,	Thin Dark Su Loarny Gleye Depleted Ma Redox Dark 3 Depleted Dark Redox Depre Iron-Mangan Umbric Surfa Piedmont Flo	low Surface (S8 Inface (S9) (MLR Inface (S9) (MLR Inface (F3) Surface (F6) Inface (F6) Inface (F6) Inface (F6) Inface (F7) Inface (F8) Inface (F13) (MLR Inface (F13) (MLR) Inface (F13) (MLR) In	RA 147, 148) 12) (LRR N, 1 A 136, 122) F19) (MLRA MLRA 127, 1	MLRA 136) 148) 47)	Coast Prairie F Piedmont Floo (MLRA 136, 14 Very Shallow I Other (Explain	Dark Surface (TF12)
Restrictive I Type: Depth (ii	Layer (if observed):					Hyd Soil Pre		No
Soil Decert	otion Remarks:							
		Ult -	the c	Riteric	e for	anc	hydeic	soil indicators.
								~

ChieEPA Primary H	leadwater Ha	abitat Evalua HHEI Score (s		■ 1	51
SITE NAME/LOCATION EI+F 4	18 P.pelice				
572-190402-1440 SITE NUMBER		ASIN C)Giru /	Ver DRAIN	AGE AREA (mr) ථ	.07mi2
LENGTH OF STREAM REACH (ft) 200	LAT. 39, 7/16 LON	NG 90.957 700	ER CODE	RIVER MILE	<u> </u>
					iver
NOTE: Complete All Items On This Form	•		•	, (ctions
				ECENT OR NO RECO	al determine
STREAM CHANNEL INONE / NAT	URAL CHANNEL OR			CENT OR NO RECO	VERY
1. SUBSTRATE (Estimate percent of ever	ry type of substrate pres	sent. Check ONLY two	redominant subs	trate TYPE boxes	-
(Max of 32). Add total number of signification of the second structure of the	ant substrate types found	(Max of 8). Final metric	score is sum of b	oxes A & B.	HHEI
TYPE PE	RCENT TYPE	SILT [3 pt]		PERCENT	Metric Points
BOULDER (>256 mm) [16 pts]		LEAF PACKWOODY	DEBRIS [3 pts]	70	
BEDROCK [16 pt]		FINE DETRITUS [3 p			Substrate Max = 40
COBBLE (65-256 mm) [12 pts]	<u>#5 </u>	CLAY or HARDPAN [0 pt]		
GRAVEL (2-64 mm) [9 pts]		MUCK [0 pts] ARTIFICIAL [3 pts]			26
Total of Percentages of		ratta to hal		(8)	
Bidr Slabs, Boulder, Cobble, Bedrock	(A)			(B)	A+B
SCORE OF TWO MOST PREDOMINATE SUBST	TRATE TYPES: 79	TOTAL NUMBER	OF SUBSTRATE		3 S - S
2. Maximum Pool Depth (Measure the ma				at the time of	Pool Depth
evaluation. Avoid plunge pools from road > 30 centimeters [20 pts]	I culverts or storm water p	oipes) (Check ONLY of > 5 cm - 10 cm [15 p			Max = 30
> 22.5 - 30 cm [30 pts]	ē	< 5 cm [5 pts]			
> 10 - 22.5 cm [25 pts]		NO WATER OR MOI	ST CHANNEL [0	pts]	5
COMMENTS			OL DEPTH (cent		
3. BANK FULL WIDTH (Measured as the > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	average of 3-4 measure	ments) (Check > 1.0 m - 1.5 m (> 3' 3 ≤ 1.0 m (<=3' 3") [5 pi	and the second se		Bankfull Width Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]					
COMMENTS		AVERAGE BA	NKFULL WIDTH	(meters): p. o.	20
	This information				Constanting of the
RIPARIAN ZONE AND FLOODP	LAIN QUALITY 👘 🕸 N	n <u>must</u> also be comple OTE: River Left (L) and I		ng downstream 🕸	
RIPARIAN WIDTH	FLOODPLAIN QUALI				
L R (Per Bank)	L R (Most Predo	minant per Bank) st. Wetland		nservation Tillage	
🔲 🗐 🔎 Moderate 5-10m	- •	prest, Shrub or Old		oan or Industrial	
A Narrow <5m		Park, New Field		en Pasture, Row Crop	0
	Fenced Pas		~ ~	ning or Construction	
COMMENTS					
FLOW REGIME (At Time of Eval Stream Flowing Subsurface flow with isolated pool COMMENTS		Moist Channe Dry channel,	el, isolated pools, no water (Epherr	no flow (Intermittent) heral)	
SINUOSITY (Number of bends pr None 0 0.5	er 61 m (200 ft) of channe 1.0 1.5	el) (Check ONLY one b 2.0 2.5		3.0 >3	
STREAM GRADIENT ESTIMATE	Moderate (2 ft/100 ft)	Moderate to	Severe	Severe (10 ft/10	0 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
QHEI PERFORMED? - C Yes No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) Distance from Evaluated Stream 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: New Martins Ville RRCs Soil Map Page: NRCS Soil Map Stream Order
County: Maria Maria Township/City: Ohio Township
Base Flow Conditions? (Y/N): Date of last precipitation: 3/3//19 Quantity: Oc 1/_14
Elevated Turbidity? (Y/N): Canopy (% open):
Were samples collected for water chemistry? (Y/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): (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) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Comments Regarding Biology: Streum 500 ppc ts Carboits to the amphibians
and macro invertebrates
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
2 CE ephenival UNIC
FLOW > Zownstope
e e e e e e e e e e e e e e e e e e e
PHWH Form Page - 2

ChieEPA Primary Headwater Habitat Evaluation For HHEI Score (sum of metr	
SITE NAME/LOCATION EITA 4/9 1 A21.20	
STA 190402-1500 SITE NUMBER RIVER BASIN OG ST RIVER DRA	
LENGTH OF STREAM REACH (ft) 200 LAT. LONG. RIVER CODE	
DATE 4/2/19 SCORER ETM COMMENTS 14 to run, Hend UNT	to Ohis River
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH	
STREAM CHANNEL INONE / NATURAL CHANNEL RECOVERED RECOVERING	RECENT OR NO RECOVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant sul (Max of 32), Add total number of significant substrate types found (Max of 8). Final metric score is sum of	
TYPE PERCENT TYPE	PERCENT Metric
BLDR SLABS [16 pts] SILT [3 pt] BOULDER (>256 mm) [16 pts] D	
BEDROCK [16 pt] FINE DETRITUS [3 pts]	I Substrate Max = 40
COBBLE (65-256 mm) [12 pts] 20 CLAY or HARDPAN [0 pt] GRAVEL (2-64 mm) [9 pts] 10 MUCK [0 pts]	
Image: Sand (<2 mm) [6 pts]	
Total of Percentages of (A)	(B) A+B
Bidr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 16 TOTAL NUMBER OF SUBSTRATE	
 Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation rea evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): 	ich at the time of Pool Depth Max = 30
□ > 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] 5
COMMENTSMAXIMUM POOL DEPTH (co	<u> </u>
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one bo > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]	
COMMENTS AVERAGE BANKFULL WIDT	rH (meters): 1,2 m
This information <u>must</u> also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY SNOTE; River Left (L) and Right (R) as loc RIPARIAN WIDTH FLOODPLAIN QUALITY	bking downstream \$r
L R (Per Bank) L R (Most Predominant per Bank) L R	
	Conservation Tillage
Field	Urban or Industrial
	Open Pasture, Row Crop
COMMENTS	Mining or Construction
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS	
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
□ None □ 1.0 □ 2.0 □ □ 0.5 □ 1.5 □ 2.5 □	3.0 >3
STREAM GRADIENT ESTIMATE	-

1214112 - 150 ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): QHEI PERFORMED? - D Yes DNo QHEI Score _____ (If Yes, Attach Completed QHEI Form) DOWNSTREAM DESIGNATED USERS Distance from Evaluated Stream), (o m. 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 New Marfinsville, Of NRCS Soil Map Page:_____ NRCS Soil Map Stream Order_____ USGS Quadrangle Name: aroe Township/City: Ohio Tap County: **MISCELLANEOUS** Base Flow Conditions? (Y/N): Date of last precipitation: Quantity: See report Photograph Information: Elevated Turbidity? (Y/N): ____ Canopy (% open): ____ Were samples collected for water chemistry? (Y/N): ______ (Note lab sample no, or id. and attach results) Lab Number: Temp (*C)_____ Dissolved Oxygen (mg/l) _____ pH (S.U.) _____ Conductivity (µmhos/cm) _____ Field Measures: 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): (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) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Frogs or Tadpoles Observed? (Y/N)____ Voucher? (Y/N)____ Aquatic Macroinvertebrates Observed? (Y/N)____ Voucher? (Y/N)____ 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 rest FLOW

STR.	DATE <u>41419</u> SCORER <u>616</u> CO NOTE: Complete All Items On This Form - Refer to	HHEI Score (sum of metrics 1, 2, 3) :
	STREAM CHANNEL ON NONE / NATURAL CHA	
	(Max of 32). Add total number of significant substrate TYPE BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts] BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [9 pts] GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock	ubstrate present. Check ONLY two predominant substrate TYPE boxes e types found (Max of 8). Final metric score is sum of boxes A & B. TYPE SILT [3 pt] LEAF PACK/WOODY DEBRIS [3 pts] FINE DETRITUS [3 pts] CLAY or HARDPAN [0 pt] MUCK [0 pts] ARTIFICIAL [3 pts] (A)
	SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYP 2. Maximum Pool Depth (Measure the maximum poel evaluation. Avoid plunge pools from road culverts or > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts] COMMENTS 3. BANK FULL WIDTH (Measured as the average of > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	ol depth within the 61 meter (200 ft) evaluation reach at the time of storm water pipes) (Check ONLY one box): Pool Depth Max = 30 > 5 cm - 10 cm [15 pts] S cm [5 pts] NO WATER OR MOIST CHANNEL [0 pts] O MAXIMUM POOL DEPTH (centimeters): O
L	COMMENTS	AVERAGE BANKFULL WIDTH (meters)
	RIPARIAN ZONE AND FLOODPLAIN QUAI	PLAIN QUALITY (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture Mature
	Subsurface flow with isolated pools (Interstitia COMMENTS	0 ft) of channel) (Check ONLY one box);
	None 1.0 0.5 STREAM GRADIENT ESTIMATE Flat (0.5 ft/100 ft) Flat to Moderate Model	2.0 3.0 2.5 3 arate (2 tr/100 ft) Moderate to Severe □ Severe (10 tr/100 ft)

STR -190402- 15/0, 1330	, + 1620
ADDITIONAL STREAM INFORMATION (This Information M	ust Also be Completed):
	re (If Yes, Attach Completed QHEI Form)
CWH Name:	Distance from Evaluated Stream O, G m. Distance from Evaluated Stream Distance from Evaluated Stream
	THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: New Martingville	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Man vo e_	Township/City: Ohis Twp
MISCELLANEOUS	
Base Flow Conditions? (Y/N): <u>V</u> Date of last precipitation Date of last precipitation: <u>Sec</u>	ion: 3/31/19 Quantity: 0+1/14nches
Elevated Turbidity? (Y/N): NC Canopy (% open):	
8	(Note lab sample no. or id, and attach results) Lab Number:
	g/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N)	
Additional comments/description of pollution impacts:	
ID number. Include appropriate Fish Observed? (Y/N) Voucher? (Y/N) Satama	Voucher collections optional. NOTE: all voucher samples must be labeled with the site field data sheets from the Primary Headwater Habitat Assessment Manual) anders Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N)
Comments Regarding Biology:	
DRAWING AND NARRATIVE DESCR	IPTION OF STREAM REACH (This <u>must</u> be completed):
Include important landmarks and other features of in	terest for site evaluation and a narrative description of the stream's location
FLOW	
Ep pelin	e ROW
	PHWH Form Page - 2

ChieEPA Primary H	Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) : 28
DATE 4 2 19 SCORER ET M NOTE: Complete All Items On This Form	RIVER BASIN OG & RIVER DRAINAGE AREA (m ²) O, OG mi ² LAT. <u>39, 7088</u> ONG. <u>89, 8475</u> RIVER CODE RIVER MILE COMMENTS <u>3 in termitent UNTS to OG B</u> ur n - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
STREAM CHANNEL INONE / NAT MODIFICATIONS:	
(Max of 32). Add total number of signification	ry 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. HHEI ERCENT TYPE PERCENT Image: Imag
	TRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: aximum pool depth within the 61 meter (200 ft) evaluation reach at the time of I culverts or storm water pipes) (Check ONLY one box): > 5 cm - 10 cm [15 pts] < 5 cm [5 pts]
3. BANK FULL WIDTH (Measured as the importance) > 4 0 meters (> 13') [30 pts] > 3 0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS	AVERAGE BANKFULL WIDTH (meters):
RIPARIAN ZONE AND FLOODP <u>RIPARIAN WIDTH</u> L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This information must also be completed PLAIN QUALITY MOTE: River Left (L) and Right (R) as looking downstream A FLOODPLAIN QUALITY L R Conservation Tillage L R (Most Predominant per Bank) L R Mature Forest, Wetland □ Conservation Tillage Immature Forest, Shrub or Old □ Urban or Industrial Immature Forest, New Field □ Open Pasture, Row Crop □ Fenced Pasture □
FLOW REGIME (At Time of Eval Stream Flowing Subsurface flow with isolated pool COMMENTS	Moist Channel, isolated pools, no flow (Intermittent)
SINUOSITY (Number of bends p None 0.5 STREAM GRADIENT ESTIMATE Flat (0.5 ft/100 ft) Flat to Moderate	er 61 m (200 ft) of channel) (Check ONLY one box): 1.0 2.0 3.0 1.5 2.5 >3 Moderate (2 ft/100 ft) Severe (10 ft/100 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):

QHEI PERFORMED? - Yes No QHEI Score (If Yes, Attack	h Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWWH Name: DG: 0 K.Ver	Distance from Evaluated Stream $O, S M$.
CWH Name: EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH/COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED A	
USGS Quadrangle Name: /// W/V(W + // S V. // C / NRCS Soil Map Pa	age: NRCS Soil Map Stream Order
County: County: Township / City:	his Tup
MISCELLANEOUS	
	9 Quantity: 0,11 10,
Photograph Information:Ser cepsit	
Elevated Turbidity? (Y/N): Canopy (% open): 70	
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. ar	nd 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:	
<u> </u>	
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
Performed? (Y/N): (If Yes, Record all observations. Voucher collections optional.	NOTE all woucher samples must be labeled with the site
ID number. Include appropriate field data sheets from the Prin	• • • • • • • • • • • • • • • • • • •
Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N)	
Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrate	es Observed? (Y/N) Voucher? (Y/N)
Comments Regarding Biology:	
DRAWING AND NARRATIVE DESCRIPTION OF STREAM R	REACH (This <u>must</u> be completed):
Include Important landmarks and other features of Interest for site evaluation and	7/
Crest of 1/ TR Corest	ALSTR 1605
tone sile ship	C C
	~
FLOW	
	0.4.1
	selve Row
Pir	ette processioner
EHWH Form Page - 2	

PHWH Form Page - 2

ChicEPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3): 35
SITE NAME/LOCATION EHP 418-000 Monroe County, Ohio
SITE NUMBER 102502114 RIVER BASIN Central (nothin) DRAINAGE AREA (mi2) < 0.01
LENGTH OF STREAM REACH (f) 300 LAT. 39,70394 LONG80,85403 RIVER CODE 054301 RIVER MILE N/H
DATE 7 24/2019 SCORER S. Zelenka COMMENTS STR-190724-1000 (epheneeal)
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction
STREAM CHANNEL
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.
TYPE PERCENT TYPE PERCENT Me
BLDR SLABS [16 pts] XO SILT [3 pt] 70 POI
BOULDER (>256 mm) [16 pts] Image: Constraint of the state of the stat
BEDROCK [16 pt] FINE DETRITUS [3 pts] Max COBBLE (65-256 mm) [12 pts] Image: Classical content of the second
Image: Sand (<2 mm) [6 pts]
Total of Percentages of (A) (B) A+
Bidr Slabs, Boulder, Cobbie, Bedrock 10
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES:
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Pool
evaluation. Avoid plunge pools from road 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]
COMMENTS heavy rain 24-48 hours prior MAXIMUM POOL DEPTH (centimeters): 2
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Ban
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] With the second secon
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]
COMMENTS bank is narrower & pipeline Row AVERAGE BANKFULL WIDTH (meters):
This information <u>must</u> also be completed
RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH FLOODPLAIN QUALITY
L R (Per Bank) L R (Most Predominant per Bank) L R
Wide >10m Mature Forest, Wetland Conservation Tillage
Moderate 5-10m Immature Forest, Shrub or Old O Urban or Industrial Field
Narrow <5m II Residential, Park, New Field II Open Pasture, Row Crop
None Fenced Pasture O Mining or Construction
COMMENTS twest upstream + drunstream / + pipeline Row crossing
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):
Stream Flowing Stream Flowing Moist Channel, isolated pools, no flow (Intermittent)
Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral)
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):
STREAM GRADIENT ESTIMATE
Flat (0.5 ft/100 ft) Flat to Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/100 ft)

ADDITIONAL STREAM INFORMATION (This information Must Also b	e Completed):
QHEI PERFORMED? - TYes No QHEI Score	+ (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name: ONIO FUVER	Distance from Evaluated Stream 2100 FT
] CWH Name:] EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream
in the second state of the local state of the second state of the	the second second by the second s
	IRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: New Martinsville	
County: MONTER COUNTY Townshi	ip/City:UP
MISCELLANEOUS	Construction and the second second second
Base Flow Conditions? (Y/N): Date of last precipitation: 72	2/2019 Quantity: 1.//in.
Photograph Information: See Attachment	Cof Wetmemo
Elevated Turbidity? (Y/N): NO Canopy (% open): 10070	
Nere samples collected for water chemistry? (Y/N): <u>ND</u> (Note lab s	
Field Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (µmhos/cm)
s the sampling reach representative of the stream $(Y/N) + e^{-S}$ If not, p	lease explain:
WA	
Additional comments/description of pollution impacts:	
NA	
BIOTIC EVALUATION	
Performed? (Y/N): 125 (If Yes, Record all observations, Voucher of	collections optional. NOTE: all voucher samples must be labeled with th
ID number. Include appropriate field data s	sheets from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) ND Voucher? (Y/N) D Salamanders Obs	served? (Y/N) Voucher? (Y/N) ND
Frogs or Tadpole's Observed? (Y/N) Available Voucher? (Y/N) Aquatic	: Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) NO
Comments Regarding Biology:	
None observed	
	Salary Calt
DRAWING AND NAPPATIVE DESCRIPTION (DF STREAM REACH (This <u>must</u> be completed):
	site evaluation and a narrative description of the stream's locatio
cm / cm / 50	and and and and
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Cir I market	stern 13th Stin En 11
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Mr Un pipeline	Y.
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October 24, 2002 Revision

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SITE NAME/LOCATION	HHEI Score (sum of metrics 1, 2, 3): HHEI Score (sum of metrics 1, 2, 3): BER 102502114 RIVER BASIN CANCEl Chie trib DRAINAGE AREA (mi ²) 0.2	5
LENGTH OF STREAM REACH (ft) 30 DATE 7/24/2019 SCORER 5	LAT. <u>39.7053</u> LONG. <u>-80.3554</u> RIVER CODE <u>OS6301</u> RIVER MILE <u>N</u> <u>2elon Ka</u> COMMENTS <u>STP-190724</u> 1620 (<u>percential</u>) is Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruc	In-
STREAM CHANNEL INON MODIFICATIONS:	NE / NATURAL CHANNEL RECOVERED D RECOVERING D RECENT OR NO RECOV	/ERY
		HHEI Metric Points
BEDROCK [16 pt] COBBLE (65-256 mm) [12 pt] SAL GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts]	5 0 FINE DETRITUS [3 pts]	Substrate Max = 40 24
Total of Percentages of Bidr Stabs, Boulder, Cobble, Bed SCORE OF TWO MOST PREDOMINATE		A+B
		Pool Depth Max = 30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20	D pisj	Bankfull Width Max=30
COMMENTS 10 - 12	AVERAGE BANKFULL WIDTH (meters): 3.3	25
RIPARIAN ZONE AND F <u>RIPARIAN WIDTH</u> L R (Per Bank) O O Wide >10m O O Moderate 5-10m Narrow <5m	This information must also be completed FLOODPLAIN QUALITY Invote: River Left (L) and Right (R) as looking downstream in the read of the read	
	ne of Evaluation) (Check ONLY one box):	
	f bends per 61 m (200 ft) of channel) (Check ONLY one box): 1.0 2.0 3.0 1.5 2.5 >3	
STREAM GRADIENT ESTIMAT		h)

ADDITIONAL STREAM INFORMATION (This Information Must Also	be Completed):
QHEI PERFORMED? - O Yes No QHEI Score	
/ /	
WWH Name:	Distance from Evaluated Stream 2300 FT
O CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
	ITIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangie Name: New MarhNSville	NRCS Soil Map Page: NRCS Soil Map Stream Order
county: Maneel County Towns	ship/city: Chio Tupp
MISCELLANEOUS	
Base Flow Conditions? (Y/N): 125 Date of last precipitation: 7	122/2019 111 in ches
Base Flow Conditions? (Y/N): Date of last precipitation:	Quantity: 111111 Grad
Photograph Information: <u>See Attachmen</u>	- 1
Elevated Turbidity? (Y/N): NO Canopy (% open): 1035	in PLROW / 2090 upldown stream
Were samples collected for water chemistry? (Y/N): NO (Note la	o sample no. or id. and attach results) Lab Number: N A
	pH (S.U.) Conductivity (µmhos/cm)
is the sampling reach representative of the stream (Y/N) $\frac{12}{2}$ If not,	
	hease exham.
N H	and the second
Additional comments/description of pollution impacts:	
NA	and the second se
BIOTIC EVALUATION	
Performed? (Y/N): (If Yes, Record all observations. Vouche	er collections optional. NOTE; all voucher samples must be labeled with the s
1D number. Include appropriate field dat	a sheets from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) ND Voucher? (Y/N) ND Salamanders C	Observed? (Y/N) NO Voucher? (Y/N) NO
Frogs or Tadpoles Observed? (Y/N) Souther? (Y/N) NO Aqua Comments Regarding Biology:	
fags (unknown sp): - 11	water studer (Gerridge) - MUI
dragonfly naved - 111	caddistly - 111
DRAWING AND NARRATIVE DESCRIPTION	OF STREAM REACH (This <u>must</u> be completed):
	r site evaluation and a narrative description of the stream's location
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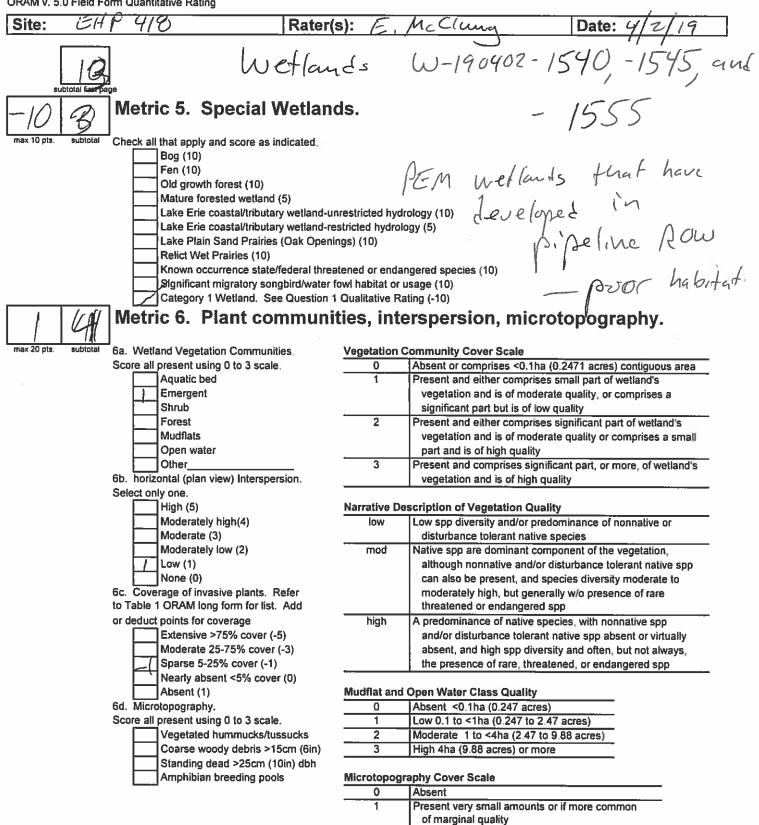
ChieEPA Primary He	adwater Habitat Eval HHEI Scor	luation Form re (sum of metrics 1, 2, 3) :	24
SITE NUMBER 102 50 LENGTH OF STREAM REACH (ft) 200 LAT DATE 7 24 2019 SCORER 5. Zelanka NOTE: Complete All Items On This Form - F	COMMENTS STR -19072	RIVER CODE 050301_RIVER MILE 4-1100 + 1115 (cpheme for Ohio's PHWH Streams" for Ins	N/A rals)
MODIFICATIONS: 1. SUBSTRATE (Estimate percent of every ty (Max of 32). Add total number of significant s TYPE BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts] BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] Total of Percentages of	Image: substrate present. Check ONLY is substrate types found (Max of 8). Final metric is substrate types found (Ma	two predominant substrate TYPE boxes etric score is sum of boxes A & B. PERCENT 95 ODY DEBRIS [3 pts] [3 pts] AN [0 pt]	HHEi Metric Points Substrate Max = 40
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRA 2. Maximum Pool Depth (Measure the maxim evaluation. Avoid plunge pools from road cu) > 30 centimeters [20 pts]) > 22.5 - 30 cm [30 pts]) > 22.5 - 30 cm [30 pts]) > 10 - 22.5 cm [25 pts] COMMENTS heavy rain 24-48 3. BANK FULL WIDTH (Measured as the ave) > 4.0 metars (> 13') [30 pts]) > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]) > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS hank is narrower with	TTE TYPES: 2 TOTAL NUM num pool depth within the 61 meter (2 liverts or storm water pipes) (Check OM > 5 cm - 10 cm < 5 cm [5 pts] NO WATER OR hours price MAXIMUM trage of 3-4 measurements) (C > 1.0 m - 1.5 m (< 1.0 m (<=3' 3')	VLY one box): [15 pts] R MOIST CHANNEL [0 pts] M POOL DEPTH (centimeters): heck ONLY one box): (> 3' 3" - 4' 8") [15 pts]	Pool Depth Max = 30 5 Bankfull Width Max=30 5
L R (Per Bank) U Wide >10m Moderate 5-10m Moderate 5-10m None COMMENTS FLOW REGIME (At Time of Evaluat Stream Flowing Subsurface flow with isolated pools (I COMMENTS SINUOSITY (Number of bends per 6 None	L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture Power powering F ion) (Check ONLY one box):	and Right (R) as looking downstream L R Conservation Tillage Urban or Industrial Open Pasture, Row (Mining or Construction Mining or Construction hannel, isolated pools, no flow (Intermitter nnel, no water (Ephemeral)	Crop 2n

ADDITIONAL STREAM INFORMATION (This information Must Al	so be Completed):
	/ A (If Yes, Attach Completed QHEi Form)
DOWNSTREAM DESIGNATED USE(S)	2 Gra ET
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
	ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	NRCS Soil Map Page:NRCS Soil Map Stream Order
county: MONROL COUNTY TOW	nship / City: Ohio Twp
MISCELLANEOUS	the second se
Base Flow Conditions? (Y/N):	122 2019 Quantity: 1.11 inches
Photograph Information:See Attachmen	F COP Wetthemo
Elevated Turbidity? (Y/N): NO Canopy (% open): 95	
Were samples collected for water chemistry? (Y/N): NO (Note I	
	pH (S.U.) Conductivity (µmhos/cm)
	t, please explain:
	n, piease explain
~N/F	No. of the second s
Additional comments/description of pollution Impacts:	
NIA	
ID number. Include appropriate field de Fish Observed? (Y/N) NO Voucher? (Y/N) N ⁶ Salamanders	ner collections optional. NOTE: all voucher samples must be labeled with the si ata sheets from the Primary Headwater Habitat Assessment Manual) Observed? (Y/N) NO Voucher? (Y/N) NO natic Macroinvertebrates Observed? (Y/N) NO Voucher? (Y/N) NO
	N OF STREAM REACH (This <u>must</u> be completed):
	for site evaluation and a narrative description of the stream's location
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PHW	Form Page - 2

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Reset Form

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Site:	El	ЯP	478		Rater(s):	E.M	1 clung	Date:	4/2/A
0	0			Wetland .	Area (siz	e).	Ne Fla	unds W-	-190402-
max 6 pts.	subtotal	Select	>50 acres 25 to <50 10 to <25 3 to <10 a 0.3 to <3 0.1 to <0.	s and assign score. ; (>20.2ha) (6 pts) acres (10.1 to <20.2 acres (4 to <10.1ha) acres (1.2 to <4ha) (3 acres (0.12 to <1.2ha 3 acres (0.04 to <0.1 s (0.04ha) (0 pts)) (4 pts) 3 pts) a) (2pts)	(-	540,	1545	+ 1555
)	Me	tric 2.	Upland b	uffers an	id surro	unding la	and use.	
max 14 pts.	subtotal		WIDE. B MEDIUM MARROV VERY NA Nensity of sun VERY LC LOW. OI	age buffer width. Sel uffers average 50m (. Buffers average 25 V. Buffers average 1 .RROW. Buffers ave rounding land use. S .W. 2nd growth or ol d field (>10 years), s .TELY HIGH. Reside rban, industrial, open	164ft) or more aroum to <50m (82 to 0m to <25m (32ft) arage <10m (<32ft) Select one or doub der forest, prairie, hrubland, young se	und wetland peri <164ft) around w to <82ft) around around wetland le check and ave savannah, wildlif econd growth for ure, park, conser	meter (7) etland perimeter (4 wetland perimeter perimeter (0) erage. ie area, etc. (7)	(1)	e pipeline
B	Q	Me	tric 3.	Hydrolog	ıy.			150	201
max 30 pts.	subiqual	3a. S 3c. M 3e. N	iources of Wa High pH g Other gro Precipitat Seasonal Perennial Naximum wate >0.7 (27.0 0.4 to 0.7 <0.4 to 0.7 <0.	ter. Score all that ap groundwater (5) undwater (3) ion (1) /Intermittent surface surface water (lake r depth. Select only 5in) (3) m (15.7 to 27.6in) (2 15.7in) (1) o natural hydrologic r none apparent (12) ed (7)	ply. water (3) or stream) (5) one and assign sc)	3d. ore. <u>or double check</u> ances observed	Connectivity. Sco 100 year floo Between stre Part of wetla Part of ripari Duration Inundatio Semi- to per Regularly in Seasonally is seasonally is and average.	ore all that apply. odplain (1) eam/lake and other hur ind/upland (e.g. forest), an or upland corridor (on/saturation. Score or manently inundated/saturated (3) nundated/saturated (3) nundated (2) saturated in upper 30cr (nonstormwater) g	man use (1) , complex (1) 1) ne or dbi check. iturated (4)
4	B	Me	etric 4.	Habitat A	Iteration	and De			,
max 20 pts.	subtotal	4a. S 4b. H	Substrate distu None or r Recovering Recent o tabitat develop Excellent Very goo Good (5) Moderate Fair (3) Poor to fa Poor of 1 tabitat alteration None or r Recovering	arbance. Score one of one apparent (4) ed (3) ng (2) r no recovery (1) pment. Select only of (7) d (6) ely good (4) air (2) on. Score one or do none apparent (9) ed (6)	or double check an	d average. re. erage. ances observed itting is removal	shrub/saplin	g removal /aquatic bed removal on	





End of Quantitative Rating. Complete Categorization Worksheets.

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Present in moderate amounts, but not of highest quality or in small amounts of highest quality

Present in moderate or greater amounts

and of highest quality

ATTACHMENT C

PHOTO DOCUMENTATION



Client: Equitrans Midstream, LLC Site Name: EHP418_000 Pipeline

Site Location: Ohio Township, Monroe County, OH Project Number: 102502114

Photo 1

Date Taken: July 24, 2019

Comments:

View of the upland forest habitat near sample point SP-190724-1000.



Photo 2

Date Taken: July 24, 2019

Comments: Downstream view of ephemeral stream STR-190724-1000.



Client: Equitrans Midstream, LLC Site Name: EHP418_000 Pipeline

Site Location: Ohio Township, Monroe County, OH Project Number: 102502114

Photo 3

Date Taken: July 24, 2019

Comments: Upstream view of perennial stream STR-190724-1020 (Stetson Run).



Photo 4

Date Taken: July 24, 2019

Comments: Downstream view of ephemeral stream STR-190724-1100.



Client: Equitrans Midstream, LLC Site Name: EHP418_000 Pipeline

Site Location: Ohio Township, Monroe County, OH Project Number: 102502114

Photo 5

Date Taken: July 24, 2019

Comments:

Upstream view of ephemeral stream STR-190724-1115.



Photo 6

Date Taken: April 2, 2019

Comments: Upstream view of intermittent stream STR-190402-1440.



Client: Equitrans Midstream, LLC Site Name: EHP418_000 Pipeline **Site Location:** Ohio Township, Monroe County, OH Project Number: 102502114

Photo 7

Date Taken: April 2, 2019

Comments: Downstream view of ephemeral stream STR-190402-1500.



Photo 8

Date Taken: April 2, 2019

Comments: Downstream view of ephemeral stream STR-190402-1510.



Client: Equitrans Midstream, LLC Site Name: EHP418_000 Pipeline

Site Location: Ohio Township, Monroe County, OH Project Number: 102502114

Photo 9

Date Taken: April 2, 2019

Comments: View of PEM wetland W-190402-1530. Ephemeral stream STR-190402-1530, which drains into the wetland, is visible in the top left corner.



Photo 10

Date Taken: April 2, 2019

Comments: View of PEM wetland W-190402-1545.

Client: Equitrans Midstream, LLC Site Name: EHP418_000 Pipeline

Site Location: Ohio Township, Monroe County, OH Project Number: 102502114

Photo 11

Date Taken: April 2, 2019

Comments: Upstream view of intermittent stream STR-190402-1545.



Photo 12

Date Taken: July 24, 2019

Comments: View of PEM wetland W-190402-1555.

Client: Equitrans Midstream, LLC Site Name: EHP418_000 Pipeline

Site Location: Ohio Township, Monroe County, OH Project Number: 102502114

Photo 13

Date Taken: April 2, 2019

Comments: Upstream view of intermittent stream STR-190402-1600.

Photo 14

Date Taken: April 2, 2019

Comments: Upstream view of intermittent stream STR-190402-1605.



Client: Equitrans Midstream, LLC Site Name: EHP418_000 Pipeline

Site Location: Ohio Township, Monroe County, OH Project Number: 102502114

Photo 15

Date Taken: July 24, 2019

Comments: Upstream view of ephemeral stream STR-190402-1620.



Photo 16

Date Taken: July 24, 2019

Comments: View of the upland forest habitat near sample point SP-190402-1630.



This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

11/19/2019 3:19:06 PM

in

Case No(s). 19-1742-GA-BLN

Summary: Letter of Notification Attachment I (Part 2 of 2) electronically filed by Mr. Michael J. Settineri on behalf of Long Ridge Energy Generation LLC