

GPD Group
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- | | | |
|---------------------------|----------------------------------|--------------------------|
| Proposed Route Adjustment | Existing Substation | Delineated Stream |
| OPSB Approved Route | Existing 69kV Transmission Line | Non-Jurisdictional Ditch |
| Survey Corridor | Existing 138kV Transmission Line | NWI Wetlands |
| | Existing 345kV Transmission Line | |

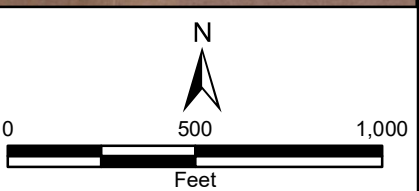
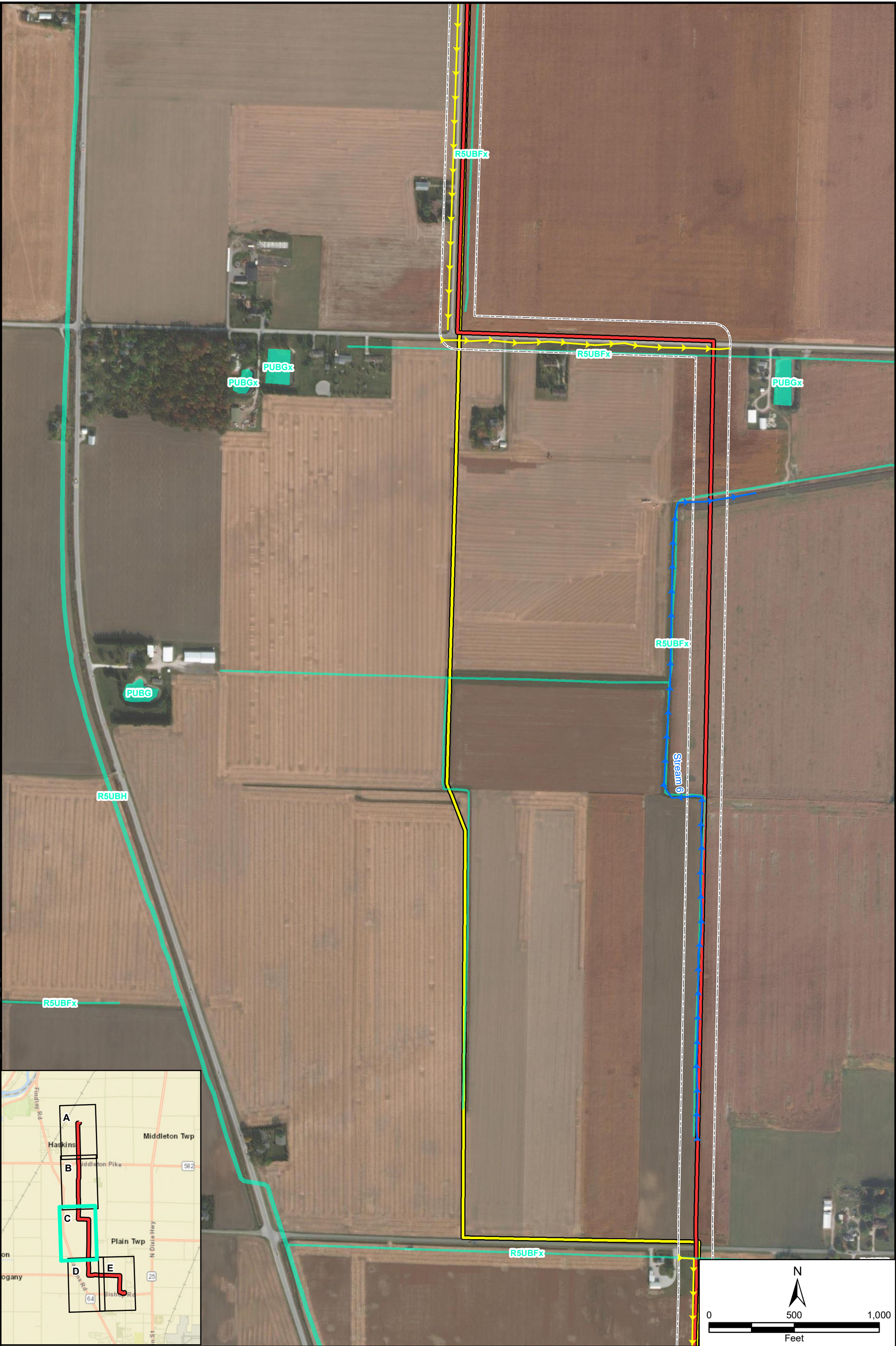


Figure 2-B
Aquatic Features Location Map

Wood County 138kV
Reinforcement Project

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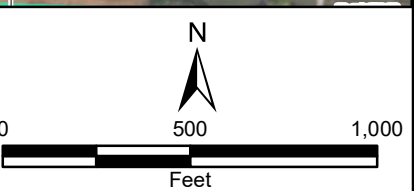
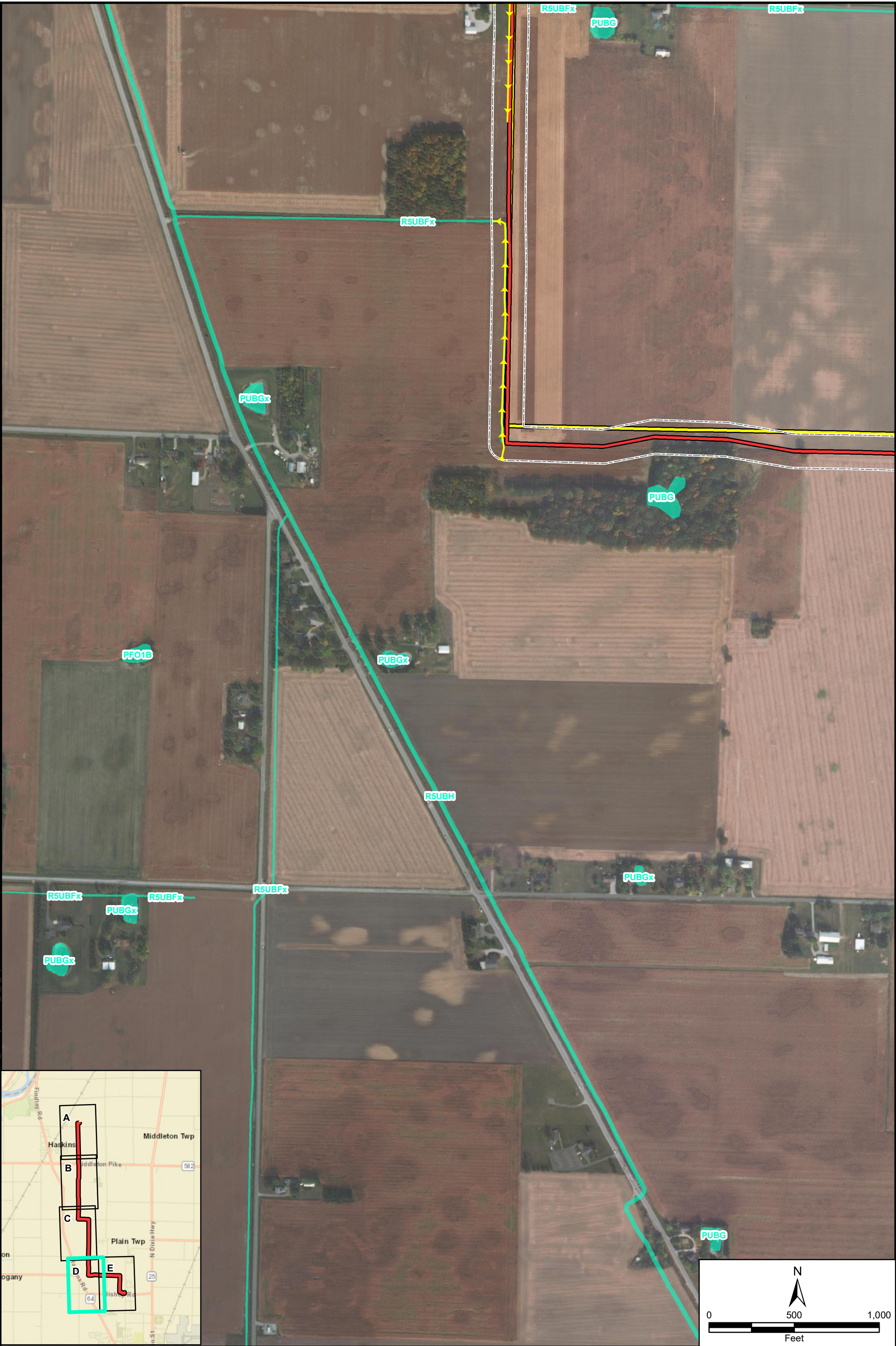


Figure 2-C
Aquatic Features Location Map

Wood County 138kV
Reinforcement Project

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| | Existing 345kV Transmission Line | |

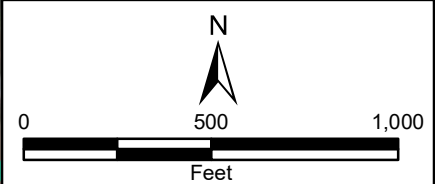
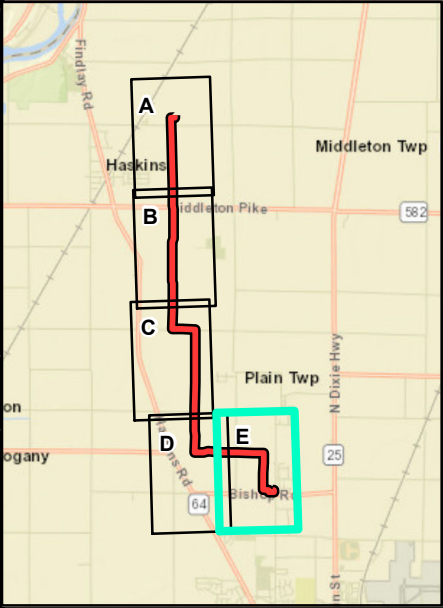
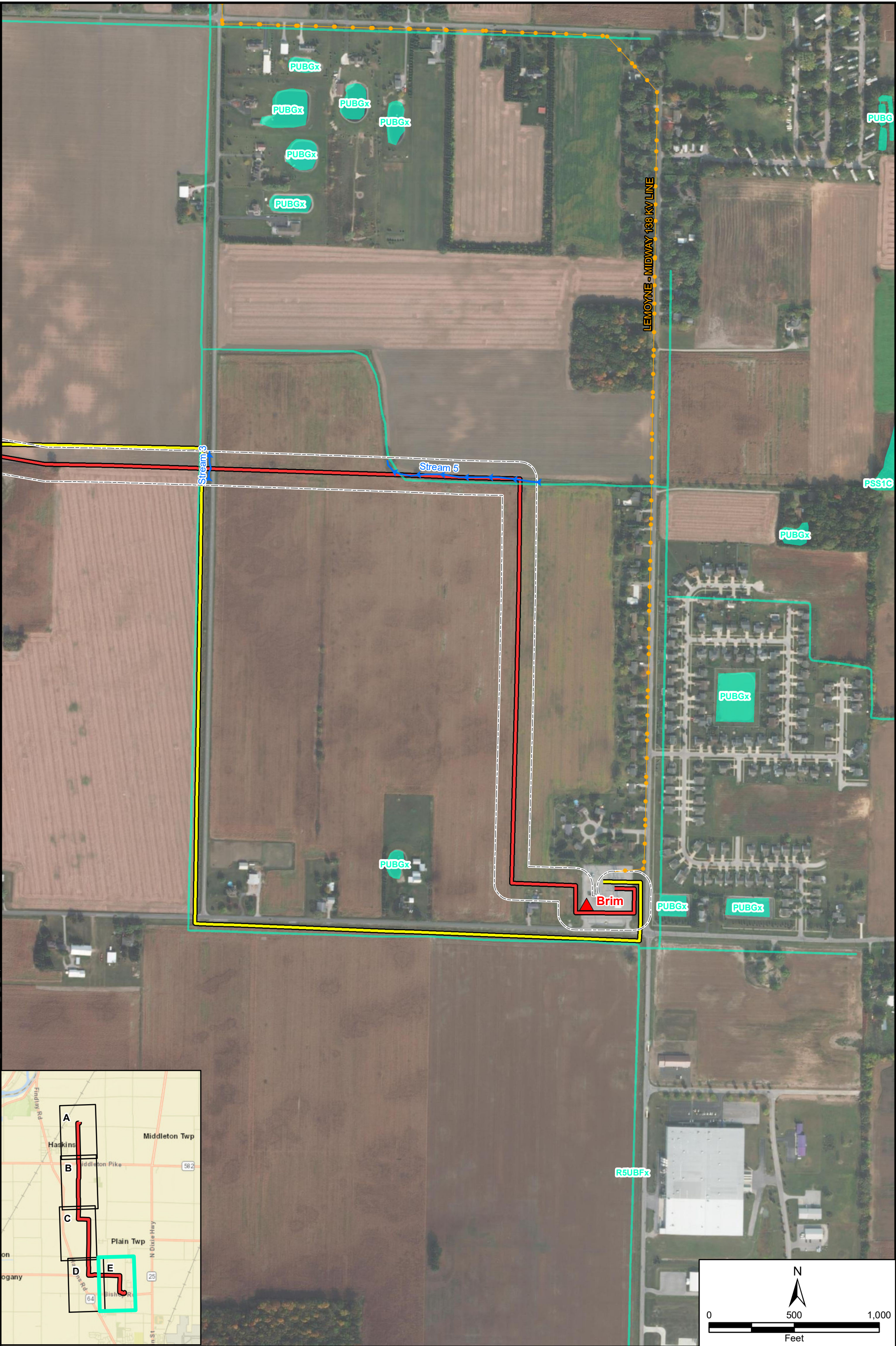


Figure 2-D
Aquatic Features Location Map

Wood County 138kV
Reinforcement Project

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| Proposed Route Adjustment | Existing Substation | Delineated Stream |
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| | Existing 345kV Transmission Line | |

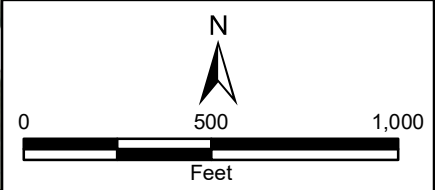
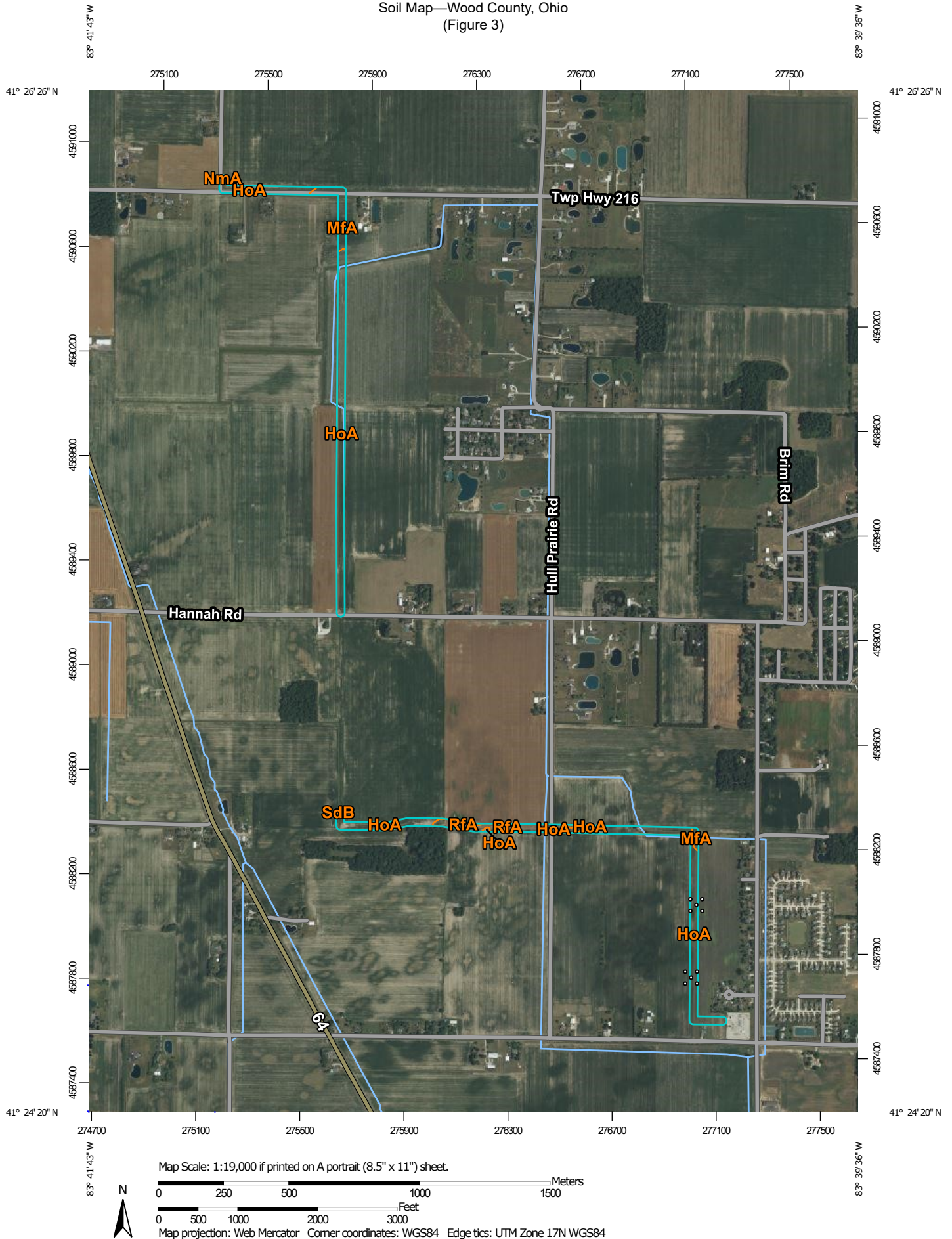


Figure 2-E
Aquatic Features Location Map

Wood County 138kV
Reinforcement Project

Soil Map—Wood County, Ohio
(Figure 3)



Soil Map—Wood County, Ohio
(Figure 3)


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Wood County, Ohio

Survey Area Data: Version 24, Sep 12, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

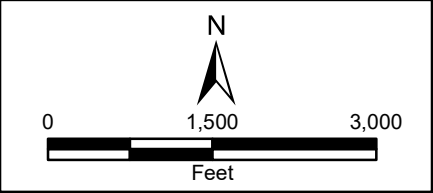
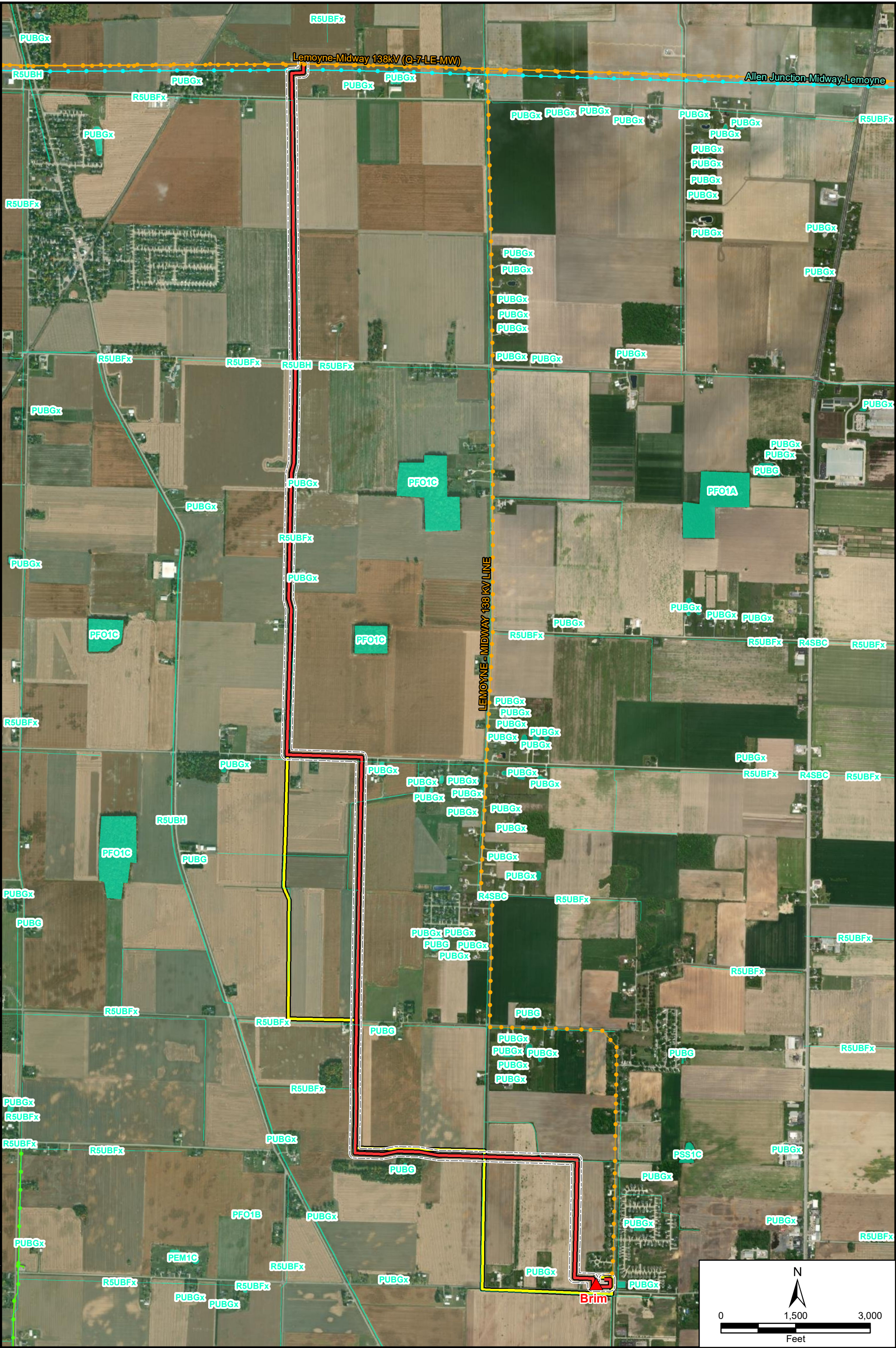
Date(s) aerial images were photographed: Jul 4, 2020—Jul 5, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HoA	Hoytville clay loam, 0 to 1 percent slopes	27.2	82.2%
MfA	Mermill-Aurand complex, 0 to 1 percent slopes	2.9	8.9%
NmA	Nappanee sandy loam, 0 to 2 percent slopes	0.1	0.4%
RfA	Rimer and Tedrow, till substratum, loamy fine sands, 0 to 2 percent slopes	1.1	3.2%
SdA	Seward and Ottokee, till substratum, loamy fine sands, 0 to 2 percent slopes	1.7	5.2%
SdB	Seward and Ottokee, till substratum, loamy fine sands, 2 to 6 percent slopes	0.0	0.1%
Totals for Area of Interest		33.2	100.0%

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Figure 4
National Wetlands Inventory Map

Wood County 138kV
Reinforcement Project

Appendices

- Appendix A Field Data Forms
- Appendix B Representative Photographs
- Appendix C List of Preparers

Appendix A

Field Data Forms

HHEI Forms

Perennial
Small Drainage
warmwater Stream



Primary Headwater Habitat Field Evaluation Form

HHEI Score (sum of metrics 1+2+3)

52

SITE NAME/LOCATION Stream 3 / Wood county 138 kV Reinforcement Project
SITE NUMBER 0721-02 RIVER BASIN Maumee River RIVER CODE _____ DRAINAGE AREA (mi²) 1.11
LENGTH OF STREAM REACH (ft) 5563 LAT 41.4154 LONG -83.6742 RIVER MILE _____
DATE 07-21-21 SCORER EN, LS COMMENTS _____

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PWHH Streams" for Instructions

STREAM CHANNEL MODIFICATIONS: ☐ NONE / NATURAL CHANNEL ☐ RECOVERED ☐ RECOVERING ☒ RECENT OR NO RECOVERY

<p>1. SUBSTRATE (Estimate percent of every type 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</p>				<p>HHEI Metric Points</p> <p>Substrate Max = 40</p> <p>7</p> <p>A + B</p>
TYPE	PERCENT	TYPE	PERCENT	
<input type="checkbox"/> BLDR SLABS [16 pts] <input type="checkbox"/> BOULDER (>256 mm) [16 pts] <input type="checkbox"/> BEDROCK [16 pts] <input type="checkbox"/> COBBLE (65-256 mm) [12 pts] <input type="checkbox"/> GRAVEL (2-64 mm) [9 pts] <input type="checkbox"/> SAND (<2 mm) [6 pts]	<input type="checkbox"/> SLT [3 pt] <input type="checkbox"/> LEAF PACK/WOODY DEBRIS [3 pts] <input type="checkbox"/> FINE DETRITUS [3 pts] <input type="checkbox"/> CLAY or HARDPAN [0 pt] <input type="checkbox"/> MUCK [0 pts] <input type="checkbox"/> ARTIFICIAL [3 pts]	<input checked="" type="checkbox"/> 20 <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 60 <input type="checkbox"/> 10		
<p>Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock _____ (A) <u>3</u> (B) <u>7</u></p>				
<p>SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: <u>3</u> TOTAL NUMBER OF SUBSTRATE TYPES: <u>7</u></p>				
<p>2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):</p>				<p>Pool Depth Max = 30</p> <p>25</p>
<p> <input type="checkbox"/> > 30 centimeters [20 pts] <input type="checkbox"/> > 22.5 - 30 cm [30 pts] <input checked="" type="checkbox"/> > 10 - 22.5 cm [25 pts] </p>				
<p>COMMENTS _____ MAXIMUM POOL DEPTH (centimeters): <u>18</u></p>				
<p>3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):</p>				<p>Bankfull Width Max = 30</p> <p>20</p>
<p> <input type="checkbox"/> > 4.0 meters (> 13') [30 pts] <input type="checkbox"/> > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] <input checked="" type="checkbox"/> > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] </p>				
<p>COMMENTS _____ AVERAGE BANKFULL WIDTH (meters): <u>1.6</u></p>				

This information must also be completed

RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream.

RIPARIAN WIDTH (Per Bank)		FLOODPLAIN QUALITY (Most Predominant per Bank)	
L	R	L	R
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS _____

FLOW REGIME (At Time of Evaluation) (Check ONLY one box):

<input checked="" type="checkbox"/> Stream Flowing	<input type="checkbox"/> Moist Channel, isolated pools, no flow (intermittent)
<input type="checkbox"/> Subsurface flow with isolated pools (interstitial)	<input type="checkbox"/> Dry channel, no water (ephemeral)

COMMENTS Stream is flowing slowly

SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):

<input checked="" type="checkbox"/> None	<input type="checkbox"/> 1.0	<input type="checkbox"/> 2.0	<input type="checkbox"/> 3.0
<input type="checkbox"/> 0.5	<input type="checkbox"/> 1.5	<input type="checkbox"/> 2.5	<input type="checkbox"/> >3

STREAM GRADIENT ESTIMATE

☒ Flat (0.5 ± 100 %)
 ☐ Flat to Moderate
 ☐ Moderate (2 ± 100 %)
 ☐ Moderate to Severe
 ☐ Severe (10 ± 100 %)

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

QHEI PERFORMED? ☐ Yes ☐ No QHEI Score _____ (If Yes, Attach Completed QHEI form)

DOWNSTREAM DESIGNATED USE(S)
☒ WWH Name: Tontogany Creek

☐ CWH Name: _____ Distance from Evaluated Stream 2.0 miles

☐ EWH Name: _____ 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: Bowling Green North NRCS Soil Map Page: _____ NRCS Soil Map Stream Order: _____

County: Wood Township/City: Plain Township

MISCELLANEOUS

Base Flow Conditions? (Y/N): Y Date of last precipitation: 07-20-21 Quantity: 40.1

Photo-documentation Notes: _____

Elevated Turbidity? (Y/N): N Canopy (% open): 100%

Were samples collected for water chemistry? (Y/N): Y Lab Sample # or ID (attach results): _____

Field Measures: Temp (°C) N/A Dissolved Oxygen (mg/l) N/A pH (S.U.) 7.45 Conductivity (umhos/cm) N/A

Is the sampling reach representative of the stream (Y/N) Y If not, explain: _____

Additional comments/description of pollution impacts: _____

BIOLOGICAL OBSERVATIONS

(Record all observations below)

Fish Observed? (Y/N) Y Species observed (if known): _____

Frogs or Tadpoles Observed? (Y/N) Y Species observed (if known): _____

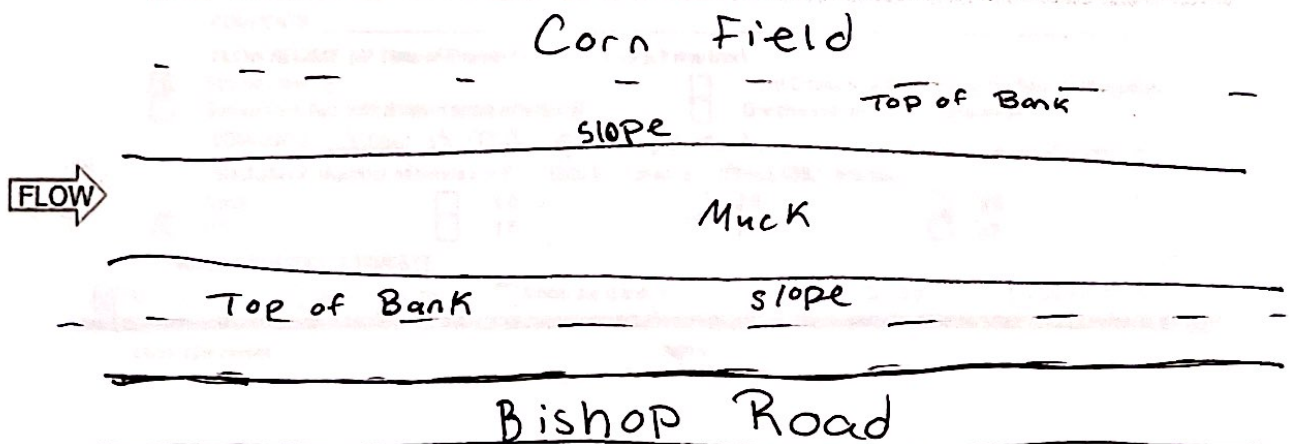
Salamanders Observed? (Y/N) N Species observed (if known): _____

Aquatic Macroinvertebrates Observed? (Y/N) N Species observed (if known): _____

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



Perennial
Small Drainage
Warmwater
Stream



Primary Headwater Habitat Field Evaluation Form

HHEI Score (sum of metrics 1+2+3)

44

SITE NAME/LOCATION Stream 5 / Wood County 138 KV Reinforcement Project
SITE NUMBER 0721-01 RIVER BASIN Maumee River RIVER CODE 041000900 DRAINAGE AREA (m²) 1.0
LENGTH OF STREAM REACH (ft) 945 LAT 41.4152 LONG -83.6689 RIVER MILE _____
DATE 07-21-21 SCORER EBN, LS COMMENTS _____

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions

STREAM CHANNEL MODIFICATIONS: ☐ NONE / NATURAL CHANNEL ☐ RECOVERED ☒ RECOVERING ☐ RECENT OR NO RECOVERY

<p>1. SUBSTRATE (Estimate percent of every type present). Check ONLY <u>two</u> 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</p> <table border="1"> <thead> <tr> <th>TYPE</th> <th>PERCENT</th> <th>TYPE</th> <th>PERCENT</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> BLDR SLABS [16 pts]</td> <td>_____</td> <td><input type="checkbox"/> SLT [3 pt]</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> BOULDER (>256 mm) [16 pts]</td> <td>_____</td> <td><input type="checkbox"/> LEAF PACK/WOODY DEBRIS [3 pts]</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> BEDROCK [16 pts]</td> <td>_____</td> <td><input type="checkbox"/> FINE DETRITUS [3 pts]</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> COBBLE (65-256 mm) [12 pts]</td> <td>_____</td> <td><input type="checkbox"/> CLAY or HARDPAN [0 pt]</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> GRAVEL (2-64 mm) [9 pts]</td> <td>_____</td> <td><input checked="" type="checkbox"/> MUCK [0 pts]</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> SAND (<2 mm) [6 pts]</td> <td>_____</td> <td><input type="checkbox"/> ARTIFICIAL [3 pts]</td> <td>_____</td> </tr> </tbody> </table> <p>Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock _____ (A) <u>0</u> (B) <u>4</u></p> <p>SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: <u>0</u> TOTAL NUMBER OF SUBSTRATE TYPES: <u>4</u></p>		TYPE	PERCENT	TYPE	PERCENT	<input type="checkbox"/> BLDR SLABS [16 pts]	_____	<input type="checkbox"/> SLT [3 pt]	_____	<input type="checkbox"/> BOULDER (>256 mm) [16 pts]	_____	<input type="checkbox"/> LEAF PACK/WOODY DEBRIS [3 pts]	_____	<input type="checkbox"/> BEDROCK [16 pts]	_____	<input type="checkbox"/> FINE DETRITUS [3 pts]	_____	<input type="checkbox"/> COBBLE (65-256 mm) [12 pts]	_____	<input type="checkbox"/> CLAY or HARDPAN [0 pt]	_____	<input type="checkbox"/> GRAVEL (2-64 mm) [9 pts]	_____	<input checked="" type="checkbox"/> MUCK [0 pts]	_____	<input type="checkbox"/> SAND (<2 mm) [6 pts]	_____	<input type="checkbox"/> ARTIFICIAL [3 pts]	_____	<p>HHEI Metric Points</p> <p>Substrate Max = 40</p> <p><u>4</u></p> <p>A + B</p>
TYPE	PERCENT	TYPE	PERCENT																											
<input type="checkbox"/> BLDR SLABS [16 pts]	_____	<input type="checkbox"/> SLT [3 pt]	_____																											
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<p>3. BANK FULL WIDTH (Measured as the average of 3 - 4 measurements) (Check ONLY one box):</p> <table border="1"> <tbody> <tr> <td><input type="checkbox"/> > 4.0 meters (> 13') [30 pts]</td> <td><input checked="" type="checkbox"/> > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]</td> </tr> <tr> <td><input type="checkbox"/> > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]</td> <td><input type="checkbox"/> ≤ 1.0 m (≤ 3' 3") [5 pts]</td> </tr> <tr> <td><input type="checkbox"/> > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]</td> <td></td> </tr> </tbody> </table> <p>COMMENTS _____ AVERAGE BANKFULL WIDTH (meters): <u>1.1</u></p>		<input type="checkbox"/> > 4.0 meters (> 13') [30 pts]	<input checked="" type="checkbox"/> > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	<input type="checkbox"/> > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	<input type="checkbox"/> ≤ 1.0 m (≤ 3' 3") [5 pts]	<input type="checkbox"/> > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]		<p>Bankfull Width Max = 30</p> <p><u>15</u></p>																						
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<input type="checkbox"/> > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]																														

This information must also be completed

RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream.

RIPARIAN WIDTH (Per Bank)		FLOODPLAIN QUALITY (Most Predominant per Bank)	
L	R	L	R
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS _____

FLOW REGIME (At Time of Evaluation) (Check ONLY one box):

<input checked="" type="checkbox"/> Stream Flowing	<input type="checkbox"/> Moist Channel, isolated pools, no flow (intermittent)
<input type="checkbox"/> Subsurface flow with isolated pools (interstitial)	<input type="checkbox"/> Dry channel, no water (ephemeral)

COMMENTS Slow is moving very slow

SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):

<input type="checkbox"/> None	<input type="checkbox"/> 1.0	<input type="checkbox"/> 2.0	<input type="checkbox"/> 3.0
<input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.5	<input type="checkbox"/> 2.5	<input type="checkbox"/> >3

STREAM GRADIENT ESTIMATE

<input checked="" type="checkbox"/> Flat (0.5 ± 100 ft)	<input type="checkbox"/> Flat to Moderate	<input type="checkbox"/> Moderate (2 ± 100 ft)	<input type="checkbox"/> Moderate to Severe	<input type="checkbox"/> Severe (10 ± 100 ft)
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ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):

QHEI PERFORMED? ☐ Yes ☒ No QHEI Score _____ (If Yes, Attach Completed QHEI form)

DOWNSTREAM DESIGNATED USE(S)

☒ WWH Name: Tontogany Creek Distance from Evaluated Stream 2.0 miles
☐ 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: Bowling Green North NRCS Soil Map Page: _____ NRCS Soil Map Stream Order: _____
County: Wood Township/City: Plain Township

MISCELLANEOUS

Base Flow Conditions? (Y/N) Y Date of last precipitation: 07-20-21 Quantity: <0.1

Photo-documentation Notes: _____

Elevated Turbidity? (Y/N) N Canopy (% open): 100%

Were samples collected for water chemistry? (Y/N) N Lab Sample # or ID (attach results): _____

Field Measures: Temp (°C) N/A Dissolved Oxygen (mg/l) N/A pH (S.U.) 6.5 Conductivity (umhos/cm) N/A

Is the sampling reach representative of the stream (Y/N) Y If not, explain: _____

Additional comments/description of pollution impacts: _____

BIOLOGICAL OBSERVATIONS

(Record all observations below)

Fish Observed? (Y/N) Y Species observed (if known): _____

Frogs or Tadpoles Observed? (Y/N) Y Species observed (if known): _____

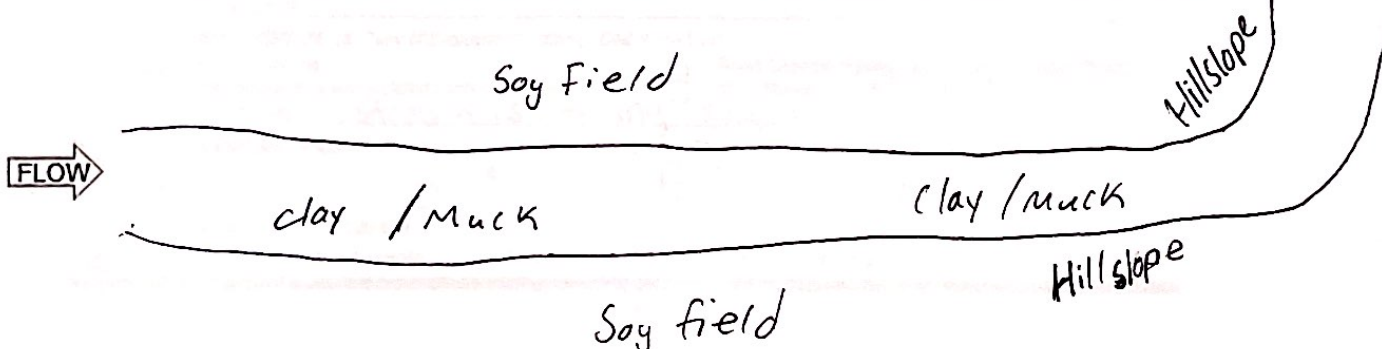
Salamanders Observed? (Y/N) N Species observed (if known): _____

Aquatic Macroinvertebrates Observed? (Y/N) N Species observed (if known): _____

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



**This foregoing document was electronically filed with the Public Utilities
Commission of Ohio Docketing Information System on**

9/26/2023 11:30:50 AM

in

Case No(s). 18-1335-EL-BTX, 23-0844-EL-BTA

Summary: Application Application to Amend the Certificate of Environmental Compatibility and Public Need Issued for the Wood County 138kV Reinforcement Project (Part IV of V) electronically filed by Mr. Lawrence B. Hughes on behalf of American Transmission Systems, Inc..