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July 18, 2008

Via Hand Delivery

Renee Jenkins
Ohio Power Siting Board
Docketing Division
180 East Broad Street – 13th Floor
Columbus, Ohio 43215

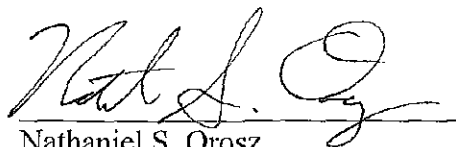
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**RE: OPSB Case No. 06-1357-EL-BTX
Correspondence Submitted to Staff**

Dear Ms. Jenkins:

Please docket the enclosed materials, which were submitted to Ohio Power Siting Board ("OPSB") Staff on July 18, 2008 with regard to the accepted, complete application in OPSB Case No. 06-1357-EL-BTX, In the Matter of the Application of American Municipal Power-Ohio, Inc., for a Certificate of Environmental Compatibility and Public Need for an Electric Power Transmission Line and Related Facilities.

Respectfully,



Nathaniel S. Orosz
Counsel for American Municipal Power-Ohio, Inc.

cc: Judge Gregory Price – 12th Floor

NID: 4834-2320-7938, v. 1

This is to certify that the above described is an accurate and complete reproduction of a case file document delivered in the regular course of business
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July 18, 2008

Via Hand Delivery

Klaus Lambeck
Chief
Facilities, Siting & Environmental Analysis Division
Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43215



**RE: OPSB Case No. 06-1357-EL-BTX
Modification of Transmission Line Route**

Dear Klaus:

I am writing on behalf of American Municipal Power-Ohio, Inc. ("AMP-Ohio") to provide documentation of a modification of the proposed transmission route related to AMP-Ohio's pending application before the Ohio Power Siting Board in OPSB Case No. 06-1357-EL-BTX, In the Matter of the Application of American Municipal Power-Ohio, Inc., for a Certificate of Environmental Compatibility and Public Need for an Electric Power Transmission Line and Related Facilities ("Application").

As set forth in O.A.C. 4906-5-10(A)(6), this modification is not an amendment to the accepted, complete Application because it is within 2,000 feet of the study corridor, will not impact any additional landowners, and will not create further impacts within the planned right-of-way of the proposed facility.

Please do not hesitate to contact me if you have any questions.

On Behalf of the Members,

Scott Kiesewetter
Manager of New Plant Engineering
American Municipal Power-Ohio, Inc.

Enclosures

cc: Docketing Division – 13th Floor
John Bentine – AMP-Ohio counsel
Jolene Thompson – AMP-Ohio

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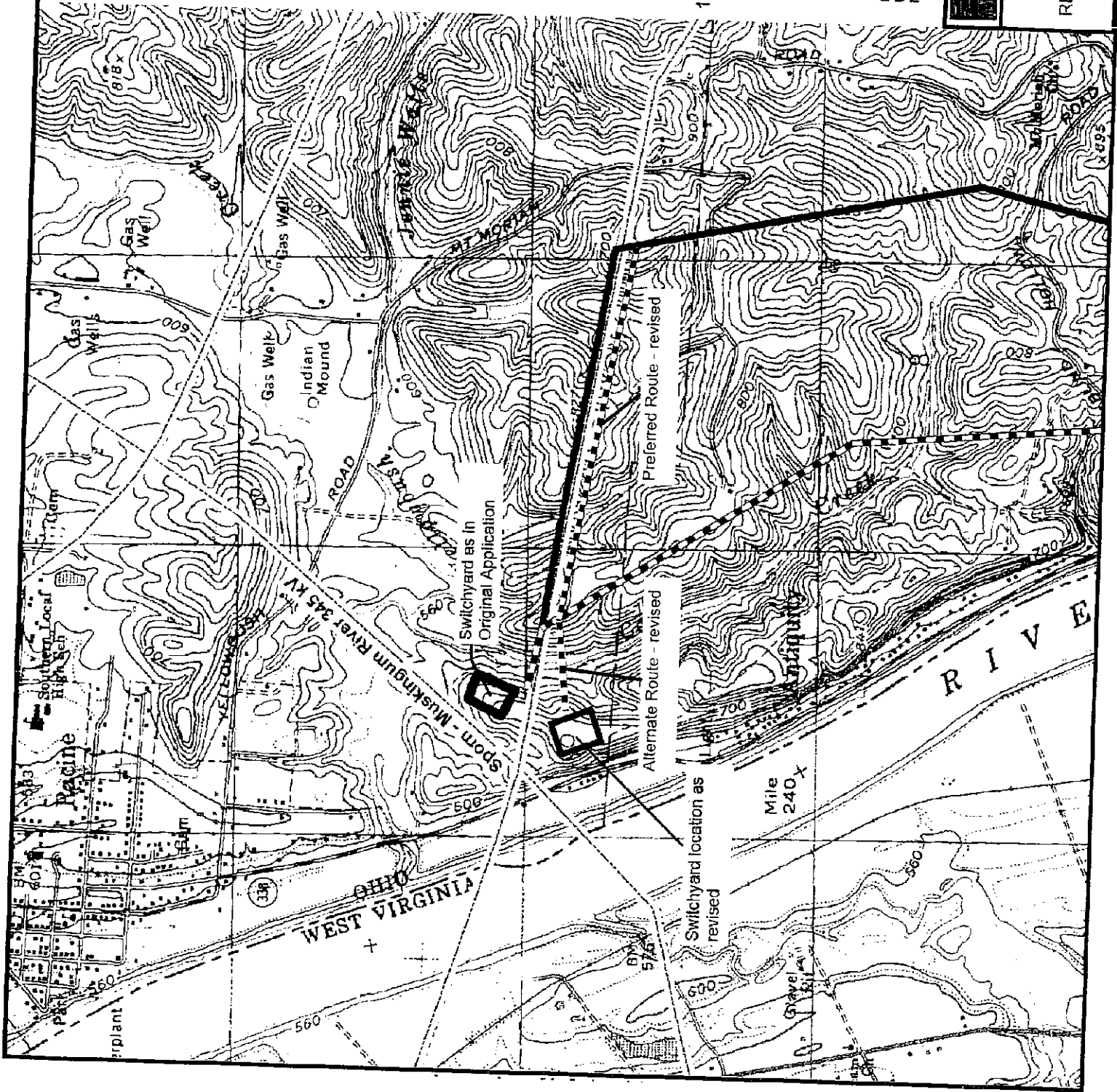
ATTACHMENT A

Figure depicting:

Revised section of preferred and alternate
transmission route and interconnection switchyard
location

and

Original preferred and alternate transmission route
and interconnection switchyard location.



BASE MAP SOURCE:
USGS 7.5 minute quadrangle
New Haven, WV-CH (1968, photo revised 1987)

**American Municipal Power
Generating Station**

CASE #06-1357-EL-BTX
345 kV TRANSMISSION LINE
REVISED SECTION OF PREFERRED
AND ALTERNATE ROUTES

ATTACHMENT B

Updated Wetland Delineation and Stream
Assessment Report covering the modified preferred
transmission route, alternate transmission route and
interconnection switchyard.

July 14, 2008

Via Electronic and U.S. Mail

Tom Harcarik
401 Section
Ohio EPA, Division of Surface Water
50 W. Town Street
Columbus, Ohio 43216



RE: Addendum to AMPGS 401 Application:
Alternate Transmission Route Assessment

Dear Mr. Harcarik:

On May 7, 2007, American Municipal Power-Ohio, Inc. ("AMP-Ohio") submitted a 401 Water Quality Certification Application to Ohio EPA to address impacts to streams and wetlands associated with AMP-Ohio's proposed new power generating station, AMPGS.

As you know, as part of Ohio's power siting process, AMP-Ohio has identified both a primary and an alternate route for the transmission line from AMPGS. In our May 19, 2008 submittal and May 28, 2008 follow-up letter, AMP-Ohio provided a Wetland Delineation and Stream Assessment Report, prepared by AMP-Ohio's consultant URS, for the alternate route. By this letter, AMP-Ohio submits the enclosed revised report. Specifically, the updated report, prepared by AMP-Ohio's consultant URS, includes stream assessment information for seven additional areas within the alternate transmission route not contained in the prior report. Please include this addendum updated report as part of AMP-Ohio's overall 401 Application.

Please do not hesitate to contact Randy Meyer or me at 614-337-6222 or via email, if you have any questions.

On behalf of the Members,

Scott Kiesewetter
Manager of New Plant Engineering
American Municipal Power-Ohio, Inc.

Enclosure

cc: Jolene Thompson/AMP-Ohio
Randy Meyer/AMP-Ohio
April Bott/CWS
Bill Fischbein/OEPA w/o enclosure.

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July 7, 2008

Mr. Scott Kiesewetter
American Municipal Power
2600 Airport Drive
Columbus, Ohio 43219

**Re: Alternate Route Wetland Delineation and Stream Assessment Report,
 AMP-Ohio 345 kV Transmission Line Project, Meigs County, Ohio**

Dear Mr. Kiesewetter:

American Municipal Power-Ohio, Inc. (AMP-Ohio) is planning to construct a transmission line that will connect its proposed 1,000-MW pulverized coal fired power plant to an interconnection switchyard located south of the existing American Electric Power (AEP) Sporn-Kaiser No. 1 138 kV transmission line. The proposed transmission line is located in the Letart Falls area of Meigs County, Ohio. This letter report summarizes the findings of the wetland delineation and stream assessment conducted by URS for the Alternate Route. The delineation and assessment was conducted in August 2006, June 2007, April, and July 2008. Figure 1 shows the proposed delineated area and the surrounding vicinity.

The ecological assessment for this project was conducted by a qualified URS biologist. The assessment was comprised of an Army Corps of Engineers (ACOE) jurisdictional wetland delineation, Ohio EPA Ohio Rapid Assessment Method (ORAM) version 5.0 qualitative wetland assessments, and Headwater Habitat Evaluation Index (HHEI) and Qualitative Habitat Evaluation Index (QHEI) for surface drainages.

Methods

The project site was investigated for the presence of wetlands using the procedures outlined in the ACOE Wetlands Delineation Manual (1987 Manual) (Environmental Laboratory, 1987). Completed ACOE wetland delineation forms for wetland W1 and Alt-W1 are included in Attachment 1. Additionally, URS prepared Ohio EPA ORAM version 5.0, (ORAM v5.0 Manual) qualitative wetland evaluation forms for these wetlands, which are included in Attachment 1. Habitat assessments for streams with a drainage area less than one square mile and located within the 150-foot construction right-of-way (ROW), were conducted using the methods described in the Ohio EPA's *Field Evaluation Manual for Ohio's Primary Headwater*

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Habitat Streams. Final Version 1.0 (Davie, 2001) (HHEI). The completed HHEI forms are included in Attachment 3. Habitat assessment of streams with a drainage area greater than one square mile and located within the 150-foot construction ROW, were conducted using the methods described in the Ohio EPA's *Methods for Assessing Habitat in Flowing Waters: Using the Qualitative Habitat Evaluation Index* (Rankin, 2006) (QHEI). The completed QHEI forms are included in Attachment 2. The locations and approximate extents of these features are provided on Figure 1.

Results

U.S. Army Corps of Engineers Evaluation

Two wetlands, totaling 1.13 acres were delineated within the 150-foot construction ROW. Wetland W1 covers an area of 0.90 acres. Wetland Alt-W1 covers an area of 0.22 acres. Wetland W1 is labeled PEM/PSS with a small PFO component based on Cowardin Wetland Classification. Wetland Alt-W1 is labeled PEM based on the Cowardin Wetland Classification. See Table 1 for details on both wetlands.

Based upon the procedure identified in the *1987 Manual*, the areas delineated in Figure 1 are wetlands, as they meet vegetation, soil and hydrology wetland criteria. Upland areas were observed to contain some wetland vegetation, but did not meet the hydrology and/or soils criteria of the *1987 Manual*.

Ohio EPA ORAM Evaluation

According to the Ohio EPA ORAM evaluation, wetland W1 scored 58.5/100, indicating it is a Category II wetland. Wetland Alt-W1 scored 42/100, indicating it is a Category II wetland. The Category II wetland exhibited moderate to high quality plant communities with few invasive species, moderate to good plant community interspersions, low to high intensity anthropogenic impact of surrounding land (i.e. farming, residential use, urban infrastructure, etc.), and recovered and/or no modification to natural hydrology and habitat. See Table 1 regarding delineated Alternate Route wetlands.

Ohio EPA QHEI Evaluation

Ohio EPA QHEI forms for stream habitat assessments were completed for one stream located within the 150-foot construction ROW. The completed QHEI stream form is included in Attachment 2. The location of these streams is provided on Figure 1.

The QHEI method is generally considered appropriate for streams with drainage basins greater than one square mile, if natural pools are greater than 40 cm, or if the water feature is shown as blue-line waterways on USGS 7.5-minute topographic quadrangle maps. In order to convey general stream habitat quality to the regulated public, the Ohio EPA has assigned narrative ratings to QHEI scores. The ranges vary slightly for headwater streams (H are those with a watershed area less than or equal to 20 square miles) versus larger streams (L are those with a watershed area greater than 20 square miles). The Narrative Rating System includes: Very Poor (<30 H and L), Poor (30 to 42 H, 30 to 44 L), Fair (43 to 54 H, 45 to 59 L), Good (55 to 69 H, 60 to 74 L) and Excellent (70+ H, 75+ L).

Field surveys along the Alternate Route identified one stream with a drainage area greater than one square mile. The QHEI evaluation of the stream resulted in a "good warmwater habitat" stream designation.

Ohio EPA HHEI Evaluation

Ohio EPA HHEI forms for stream habitat assessment were completed for 26 streams located within the 150-foot construction ROW. The completed HHEI stream forms are included in Attachment 3. The location of these streams is provided on Figure 1.

The HHEI methodology uses a 100-point scale for scoring. The score is based on composition of substrate, pool depth, and bankfull width. Once a score is obtained, it is applied to the decision-making flow chart. This chart serves to assign a class to streams based upon stream channel modifications, biotic communities, and percentage of substrate comprised of bedrock, boulder, boulder slabs, and cobble.

The Alternate Route contains 26 primary headwater streams including: seven Class I streams, two Modified Class II streams, and 17 Class II streams. Alternate Route streams are summarized in Table 2.

Class I Streams – Seven Class I headwater streams were identified during the field investigation with scores ranging from a low of 11 to a high of 28. The substrate composition of these streams is generally dominated by silt, clay, leafpack/woody debris. Muck, sand, and gravel are also noted as less dominant substrate types in this stream class. Maximum pool depth is less 0 inches. The bankfull width for this group of streams is less than 3 feet.

Class II Headwater Streams – Seventeen Class II headwater streams were identified during the field investigation with scores ranging from a low of 31 to a high of 57. The substrate composition of these streams is generally dominated by gravel, silt, and sand. Cobble, leafpack/woody debris, and boulder slabs are also noted as less dominant substrate types in this class of stream. The maximum pool depth is less than 12 inches. The bank full width for this group of streams is generally less than 11 feet.

Modified Class II Headwater Streams - Two Modified Class II headwater streams were evaluated during the field investigation with scores ranging from 37 to 45. The substrate of these streams is dominated by gravel and cobble. Muck, silt, and sand, are noted as less dominant substrate types. The maximum pool depth is 0 inches. The bank full width is between 3 and 7 feet. These headwater streams show evidence of stream channel modification (e.g. channelization, culverting, etc.), which in turn resulted in a modified class designation.

Interconnection Switchyard

Field surveys identified no wetlands within the interconnection switchyard (switchyard) boundary. Field surveys did identify one headwater stream, S37, within the switchyard boundary. Stream S37 scored 19/100, classifying it as a Class I stream as shown in Table 3. The

substrate of this stream is dominated by leafpack/woody debris and sand. Gravel, cobble, and fine detritus are noted as less dominant substrate types. The maximum pool depth is 0 inches. The bankfull width is 1 foot.

Comparison to Preferred Route

The Preferred Route contains 30 streams within the 150-foot construction ROW, one QHEI evaluated stream (same as crossed by Alternate Route) and 29 HHEI evaluated headwater streams. The QHEI evaluated stream received a "good warmwater habitat" narrative rating. Eleven Class I streams, 10 Class II streams, and eight Class III streams were evaluated using the HHEI method. See Table 4 for a description of streams found with the Preferred Route 150-foot construction ROW.

Two wetlands identified within the Preferred Route, totaling 0.91 acres were delineated within the 150-foot construction ROW. Wetland W1 covers an area of 0.90 acres. Wetland W2 covers an area of 0.01 acres. Wetland W1 is labeled PEM/PSS with a small PFO component based on Cowardin Wetland Classification. Wetland W2 is labeled PEM based on the Cowardin Wetland Classification. See Table 5 for details on both wetlands.

According to the Ohio EPA ORAM evaluation, wetland W1 scored 58.5/100, indicating it is a Category II wetland. Wetland W2 scored 54/100, indicating it is a Category II wetland. The Category II wetland exhibited moderate to high quality plant communities with few invasive species, moderate to good plant community interspersions, low to high intensity anthropogenic impact of surrounding land (i.e. farming, residential use, urban infrastructure, etc.), and recovered and/or no modification to natural hydrology and habitat. See Table 5 regarding Preferred Route wetlands.

Conclusions

Two jurisdictional (i.e. non-isolated), wetlands, totaling 1.13 acres, were identified within the 150-foot construction ROW of the Alternate Route. URS's Ohio EPA ORAM evaluation of both wetlands resulted in both wetlands being designated as Category II.

Twenty-seven streams were identified within the 150-foot construction ROW. One stream was evaluated using the QHEI methodology and resulted in a narrative rating of "good warmwater habitat" stream. Twenty-six headwater streams were evaluated using the HHEI methodology; seven Class I streams, 17 Class II streams, and two Modified Class II streams.

One HHEI evaluated Class I stream was identified within the interconnection switchyard boundary.

Two wetlands identified within the Preferred Route, totaling 0.91 acres, were delineated within the 150-foot construction ROW. Thirty streams within the Preferred Route 150-foot construction ROW were assessed, one QHEI evaluated stream, a "good warmwater habitat stream", and 29 HHEI evaluated headwater streams; 11 Class I streams, 10 Class II streams, and eight Class III streams.

Approximately 5 miles of new electric transmission line will be built to connect the project to the electric grid. No wetlands or streams will be filled as part of the transmission line construction or operation. Construction will require stream crossings but these will be temporary and will be discussed with the OEPA and OPSB during preconstruction meetings. The crossing method will vary according to width and quality of the stream, but will be designed in accordance with the Rainwater and Land Development Manual published by the ODNR/OEPA. Erosion control and restoration will be conducted according to the conditions of the Stormwater Pollution Prevention Plan and OPSB Application.

The construction of the interconnect switchyard will require minimum impact to stream S37, however impacts will be mitigated through the proposed off-site stream mitigation.

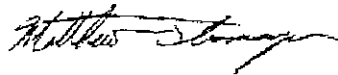
URS

Mr. Seon Kiesewetter
7/7/2008
Revision 1
Page 7

If you have any questions or comments regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

URS



Matthew Thomayer
Environmental Scientist



James Nicholas, Ph.D.
Principal Scientist

TABLE 1
WETLANDS LOCATED IN THE AMP-OHIO 345 kV TRANSMISSION LINE
ALTERNATE ROUTE CORRIDOR

Wetland ID	Cowardin Wetland Type	ORAM Score	ORAM Category	Linear Feet Crossed	Acreage within 150-foot Corridor
W1	PEM/SS with PFO Component	58.5	II	252	0.90
Alt-W1	PEM	42	II	75	0.22
Total: 2				327	1.13

TABLE 2
STREAMS LOCATED IN THE AMP-OHIO 345 KV TRANSMISSION LINE ALTERNATE ROUTE CORRIDOR

Name	Flow Regime	Bankfull Width (feet)	Maximum Pool Depth (inches)	Assessment Method	Score	Class/Narrative Rating	Length within 150-foot Corridor (feet)
S33	Perennial	6	12	HHEI	52	Class 2	189.7
Alt-S1	Intermittent	3	0	HHEI	11	Class 1	124.0
Alt-S2	Intermittent	3	0	HHEI	37	Modified Class 2	153.7
Alt-S3	Intermittent	3	0	HHEI	15	Class 1	216.9
Alt-S4	Ephemeral	3.5	0	HHEI	41	Class 2	147.5
Alt-S5	Ephemeral	7	0	HHEI	47	Class 2	125.1
Alt-S6	Ephemeral	7	0	HHEI	40	Class 2	196.7
Alt-S7	Intermittent	10.5	0	HHEI	50	Class 2	170.4
Alt-S8	Intermittent	7	0	HHEI	45	Modified Class 2	260.3
Alt-S9	Ephemeral	6	0	HHEI	57	Class 2	144.0
Alt-S10	Ephemeral	9.5	0	HHEI	53	Class 2	191.3
Alt-S11	Ephemeral	8	0	HHEI	40	Class 2	90.3
Alt-S12	Ephemeral	7	0	HHEI	31	Class 2	268.8
Alt-S13	Intermittent	6	0	HHEI	32	Class 2	380.8
Alt-S14	Ephemeral	6	0	HHEI	38	Class 2	165.2
Alt-S15	Ephemeral	11	0	HHEI	50	Class 2	92.6
Alt-S16	Ephemeral	11	0	HHEI	50	Class 2	155.0
Alt-S17	Ephemeral	10	0	HHEI	54	Class 2	155.0
S31	Perennial	7	24	QHHEI	63	Good Warmwater Habitat	160.9
S38	Ephemeral	2	0	HHEI	23	Class 1	150.5

July 2008
AMP-Ohio
14947859

Table 2
Revision 1

AMP-Ohio 345 kV Transmission
Line Project (Alternate Route)

TABLE 2
STREAMS LOCATED IN THE AMP-OHIO 345 kV TRANSMISSION LINE ALTERNATE ROUTE CORRIDOR

Name	Flow Regime	Bankfull Width (feet)	Maximum Pool Depth (inches)	Assessment Method	Score	Class/Narrative Rating	Length within 150-foot Corridor (feet)
S39	Perennial	3	6	HHEI	44	Class 2	215.7
S40	Perennial	2	2	HHEI	28	Class 1	171.3
S41	Perennial	1.5	1	HHEI	24	Class 1	148.4
S42	Perennial	2	1.5	HHEI	17	Class 1	174.2
S43	Perennial	3.5	3	HHEI	45	Class 2	192.8
S44	Perennial	3.5	3	HHEI	48	Class 2	189.8
S45	EpheMERal	2	0	HHEI	19	Class 1	164.3
Total: 27		151	53				4,795.4

TABLE 3
STREAMS LOCATED IN THE AMP-OHIO INTERCONNECT SWITCHYARD

Name	Flow Regime	Bankfull Width (feet)	Maximum Pool Depth (inches)	Assessment Method	Score	Class	Length within Switchyard (feet)
S37	Ephemeral	1	0	HHEI	19	Class 1	182
Total: 1		1	0				182

TABLE 4
STREAMS LOCATED IN THE AMP-OHIO 345 kV TRANSMISSION LINE
PREFERRED ROUTE CORRIDOR

Stream Name	Flow Regime	Bankfull Width (feet)	Maximum Pool Depth (inches)	Assessment Method	Score	Class/Narrative Rating	Length of Stream within 150-foot ROW
S01	Intermittent	4	3	HHEI	56	Class II	168.1
S02	Ephemeral	1.5	0	HHEI	19	Class I	162.1
S03	Intermittent	3	3	HHEI	39	Class II	226.0
S04	Ephemeral	1.5	0	HHEI	24	Class I	177.2
S06	Ephemeral	7	0	HHEI	37	Class II	177.6
S07	Ephemeral	3	0	HHEI	19	Class I	32.3
S08	Ephemeral	3	0	HHEI	27	Class I	177.5
S09	Ephemeral	6	0	HHEI	39	Class II	181.5
S10	Intermittent	7.5	2	HHEI	55	Class III	229.1
S11	Ephemeral	2	2	HHEI	34	Class II	158.8
S12	Intermittent	2.5	4	HHEI	45	Class III	309.4
S13	Perennial	2.5	3	HHEI	26	Class I	59.8
S14	Perennial	5.5	4	HHEI	64	Class III	152.8
S15	Perennial	7	2	HHEI	62	Class III	155.1
S16	Intermittent	5	3	HHEI	54	Class III	201.5
S17	Ephemeral	3	0	HHEI	18	Class I	227.1
S18	Ephemeral	2.5	0	HHEI	41	Class II	299.1
S19	Perennial	7	8	HHEI	82	Class III	213.0
S20	Ephemeral	4	0	HHEI	30	Class II	196.5

AMP-Ohio 345 kV Transmission
Line Project (Alternate Route)

Table 4

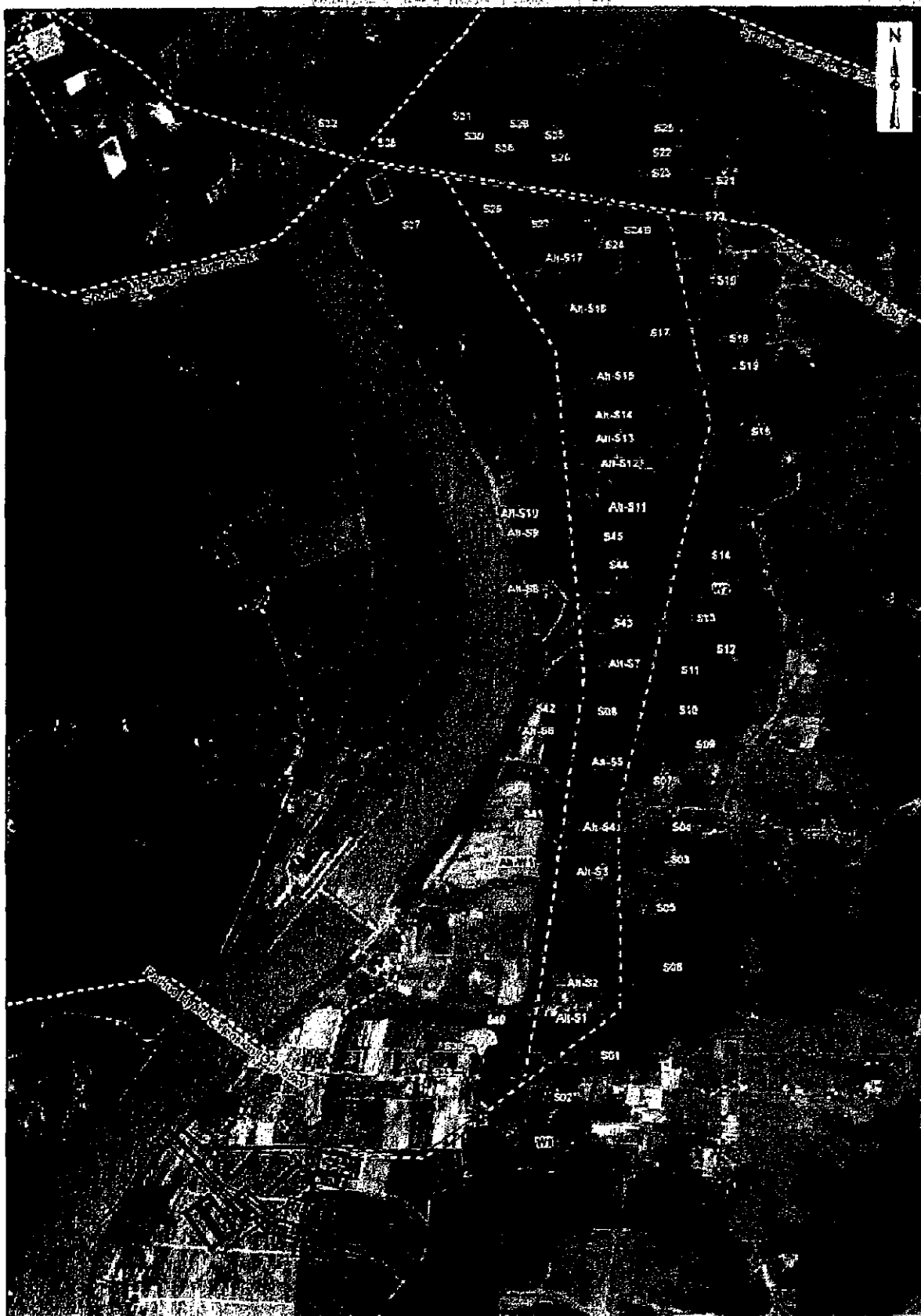
TABLE 4

STREAMS LOCATED IN THE AMP-OHIO 345 kV TRANSMISSION LINE
PREFERRED ROUTE CORRIDOR

Stream Name	Flow Regime	Bankfull Width (feet)	Maximum Pool Depth (inches)	Assessment Method	Score	Class/Narrative Rating	Length of Stream within 150-foot ROW
S21	Intermittent	6	3	HHEI	62	Class III	152.9
S22	Ephemeral	3	0	HHEI	9	Class I	152.0
S24	Ephemeral	2.5	0	HHEI	25	Class I	174.7
S25	Ephemeral	4	0	HHEI	35	Class II	190.3
S27	Intermittent	8	10	HHEI	71	Class III	173.4
S29	Ephemeral	1	0	HHEI	9	Class I	89.9
S31	Perennial	17	24	QHHEI	63	Good Warmwater Habitat	160.9
S33	Perennial	7	12	HHEI	52	Class II	189.7
S35	Intermittent	3	0	HHEI	19	Class I	298.1
S36	Ephemeral	3	0	HHEI	32	Class II	135.3
S38	Ephemeral	2	0	HHEI	23	Class I	150.8
Total:30		133	83				5372.5

TABLE 5
WETLANDS LOCATED IN THE AMP-OHIO 345 kV
TRANSMISSION LINE PREFERRED ROUTE CORRIDOR

Wetland ID	Cowardin Wetland Type	ORAM Score	ORAM Category	Linear Feet Crossed	Acreage within 150-foot Corridor
W1	PEM/SS with PFO Component	58.5	II	252	0.90
W2	PEM	54	II	9	0.01
Total: 2				261	0.91



LEGEND:

- - - Potential Revised Preferred Route
- - - Potential Revised Alternate Route
- - - Preferred Route 150 ft Right-of-Way
- - - Alternate Route 150 ft Right-of-Way
- - - Interconnection Switchyard
- Wetlands
- Streams
- Drainages
- Existing Transmission Line
- Generation Station

0 1,750 3,500

Scale in Feet

BASE MAP SOURCE:
National Agricultural Imagery Program
USDA Farm Service Agency, 2005



AMP - OHIO
BASELOAD GENERATING FACILITY

FIGURE 1
REVISION 1
WETLAND DELINEATION AND
STREAM ASSESSMENT MAP

JOB NO. 14540276

URS

ATTACHMENT 1

**U.S. ARMY CORPS OF ENGINEERS
AND
OHIO EPA ORAM
DATA SHEETS**

W

W. H. D.

VEGETATION

2001-56~

Technology

stinging nettles hydrology; stream insects

5708

Hydroxide Sub Hydroxide

WETLAND DETERMINATION

Summary

U.S. Department of Health and Human Services
45 CFR 117.101-117.102

Metric 1. Wetland Area (size).

[illegible]

Metric 2. Upland buffers and surrounding land use.

[illegible]

Metric 3. Hydrology.

[illegible]

Metric 4. Habitat Alteration and Development.

[illegible]

→ these disturbances originated in the surrounding vicinity but for most of us they have been

Matrix 5. Special Wetlands.

1	1. The first step in the process of the development of a new product is the identification of a market need.
2	2. The second step is the development of a concept for the product.
3	3. The third step is the development of a plan for the product.
4	4. The fourth step is the development of a prototype of the product.
5	5. The fifth step is the development of a marketing plan for the product.
6	6. The sixth step is the development of a production plan for the product.
7	7. The seventh step is the development of a distribution plan for the product.
8	8. The eighth step is the development of a sales plan for the product.
9	9. The ninth step is the development of a service plan for the product.
10	10. The tenth step is the development of a support plan for the product.

Metric 6. Plant communities, interspersed, microtopography.

[illegible]

Modified and Open Year Class Quality

[illegible]

GRAND TOTAL(max 100 pts)

22. 100% Approval & Praise

11/11/2019 11:11 AM

Figure 1

[illegible]

ROUTINE WETLAND DETERMINATION DATA FORM 1987 MANUAL

Project: ALT Trans Route
 Applicant/Owner: Ampl - OH
 Investigator(s): Peapack, L. Brown, L. H. H.
 Date: 6-18-07 Community ID: FO
 County: Meigs Transit ID:
 State: OH Plot ID: W-1 - UPL

Do Normal Circumstances exist on the site? YES
 Is the site significantly & recently disturbed? (Atypical Situation) YES
 Is the area a potential Problem Area? (Explain in final remarks) YES

VEGETATION

Dominant Plant Species	Symbol	Indicator
1. <u>Scirpus americanus</u>	<u>H</u>	<u>FCU</u>
2. <u>Lythrum hyssopifolium</u>	<u>H</u>	<u>FCU</u>
3. <u>Physalis peruviana</u>	<u>H</u>	<u>FCU</u>
4. <u>Rosa multiflora</u>	<u>S</u>	<u>FCU</u>
5. <u></u>	<u></u>	<u></u>
6. <u></u>	<u></u>	<u></u>
7. <u></u>	<u></u>	<u></u>
8. <u></u>	<u></u>	<u></u>
9. <u></u>	<u></u>	<u></u>
10. <u></u>	<u></u>	<u></u>

Percent of Dominant Species that are OBL, FACW, or FAC (including FAC) 25
 Hydrophytic Vegetation Present? Yes
 REMARKS

HYDROLOGY

RECORDED DATA (Describe in Remarks)
☐ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ None Available
 FIELD OBSERVATIONS
 Depth of Surface Water 1m
 Depth to Free Water in Pit 1m
 Depth to Saturated Soil 1m
 Wetland Hydrology Present? Yes
 REMARKS

SOILS

Map Unit Name Drainage Class
 (Series and Phase)
 Taxonomy (Subgroup) Field Observations Confirm Mapped Type Yes No

PROFILE DESCRIPTION

Depth (cm)	Soil Color (Munsell)	Moisture	Texture	Structure	Rooting
0-10	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
10-20	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
20-30	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
30-40	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
40-50	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
50-60	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
60-70	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
70-80	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
80-90	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
90-100	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1

HYDROLYTIC SOIL INDICATORS
☐ Manganese
☐ Iron
☐ Aluminum
☐ Sulfide
☐ Organic
☐ Other
 Wetland Hydrology Present? Yes
 REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes
 Wetland Hydrology Present? Yes
 Hydric Soils Present? Yes
 REMARKS

ROUTINE WETLAND DETERMINATION DATA FORM 1987 MANUAL

Project: ALT Trans Route
 Applicant/Owner: Ampl - OH
 Investigator(s): Peapack, L. Brown, L. H. H.
 Date: 6-18-07 Community ID: FO
 County: Meigs Transit ID:
 State: OH Plot ID: W-1

Do Normal Circumstances exist on the site? YES
 Is the site significantly & recently disturbed? (Atypical Situation) YES
 Is the area a potential Problem Area? (Explain in final remarks) YES

VEGETATION

Dominant Plant Species	Symbol	Indicator
1. <u>Bidens cernua</u>	<u>H</u>	<u>OBL</u>
2. <u>Impatiens capensis</u>	<u>H</u>	<u>FCU</u>
3. <u>Glycyrrhiza lewisi</u>	<u>H</u>	<u>OBL</u>
4. <u>Lespedeza bicolor</u>	<u>H</u>	<u>OBL</u>
5. <u></u>	<u></u>	<u></u>
6. <u></u>	<u></u>	<u></u>
7. <u></u>	<u></u>	<u></u>
8. <u></u>	<u></u>	<u></u>
9. <u></u>	<u></u>	<u></u>
10. <u></u>	<u></u>	<u></u>

Percent of Dominant Species that are OBL, FACW, or FAC (including FAC) 100
 Hydrophytic Vegetation Present? Yes
 REMARKS

HYDROLOGY

RECORDED DATA (Describe in Remarks)
☐ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ None Available
 FIELD OBSERVATIONS
 Depth of Surface Water 1m
 Depth to Free Water in Pit 1m
 Depth to Saturated Soil 1m
 Wetland Hydrology Present? Yes
 REMARKS

SOILS

Map Unit Name Drainage Class
 (Series and Phase)
 Taxonomy (Subgroup) Field Observations Confirm Mapped Type Yes No

PROFILE DESCRIPTION

Depth (cm)	Soil Color (Munsell)	Moisture	Texture	Structure	Rooting
0-10	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
10-20	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
20-30	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
30-40	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
40-50	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
50-60	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
60-70	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
70-80	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
80-90	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1
90-100	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1	10YR 5/1

HYDROLYTIC SOIL INDICATORS
☐ Manganese
☐ Iron
☐ Aluminum
☐ Sulfide
☐ Organic
☐ Other
 Wetland Hydrology Present? Yes
 REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes
 Wetland Hydrology Present? Yes
 Hydric Soils Present? Yes
 REMARKS

Alt-W1

DATE: 10/10/2001

Site: Alt-W1 Antelope: Rock Date: 6-18

Metric 1. Wetland Area (size).

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 2. Upland Buffers and surrounding land use.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 3. Hydrology.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 4. Habitat Alteration and Development.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 5. Special Wetlands.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 6. Plant communities, interspersed, microtopography.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 7. Grand Total (Index 100 pts)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

DATE: 10/10/2001

DATE: 10/10/2001

Site: Alt-W1 Antelope: Rock Date: 6-18

Metric 1. Wetland Area (size).

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 2. Upland Buffers and surrounding land use.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 3. Hydrology.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 4. Habitat Alteration and Development.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 5. Special Wetlands.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 6. Plant communities, interspersed, microtopography.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Metric 7. Grand Total (Index 100 pts)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

DATE: 10/10/2001

ATTACHMENT 2

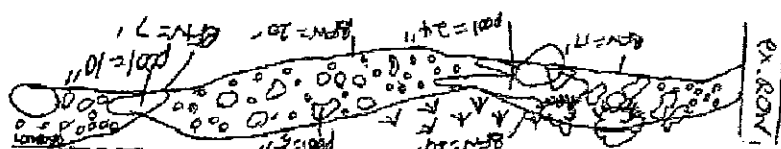
**OHIO EPA QHEI
DATA SHEETS**

FIN

ORIEPA Qualitative Habitat Evaluation Index Field Sheet QHEI Score: **63**

[illegible]

— Southern + Northern two-lined salamanders (larvae) identified in stream



Stream Drawing:

[illegible]

ATTACHMENT 3

**OHIO EPA HHEI
DATA SHEETS**

Alt. 58

On EPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3): 145

SITE NAME/LOCATION: ALT 10001 10011 - Alt. 58 COORDINATE AREA (N)

LENGTH OF STREAM REACH (m): 1000 RICH CODE: Alt. 58

DATE: 10-19-92 SCORER: APRIL CLOSS 2

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Fifth Stream for instructions.

STREAM CHANNEL: ☒ NOLE NATURAL CHANNEL ☐ DISCOVERED ☐ PRESENT OR NO INQUIRY

MODIFICATIONS:

TYPE	PERCENT	TYPE	PERCENT	TYPE	PERCENT
ROCK SLIDE (10-100 mm)	0	ROCK SLIDE (100-1000 mm)	0	ROCK SLIDE (1000-10000 mm)	0
ROCK SLIDE (1000-10000 mm)	0	ROCK SLIDE (10000-100000 mm)	0	ROCK SLIDE (100000-1000000 mm)	0
ROCK SLIDE (100000-1000000 mm)	0	ROCK SLIDE (1000000-10000000 mm)	0	ROCK SLIDE (10000000-100000000 mm)	0
ROCK SLIDE (10000000-100000000 mm)	0	ROCK SLIDE (100000000-1000000000 mm)	0	ROCK SLIDE (1000000000-10000000000 mm)	0
ROCK SLIDE (1000000000-10000000000 mm)	0	ROCK SLIDE (10000000000-100000000000 mm)	0	ROCK SLIDE (100000000000-1000000000000 mm)	0
ROCK SLIDE (100000000000-1000000000000 mm)	0	ROCK SLIDE (1000000000000-10000000000000 mm)	0	ROCK SLIDE (10000000000000-100000000000000 mm)	0
ROCK SLIDE (10000000000000-100000000000000 mm)	0	ROCK SLIDE (100000000000000-1000000000000000 mm)	0	ROCK SLIDE (1000000000000000-10000000000000000 mm)	0
ROCK SLIDE (1000000000000000-10000000000000000 mm)	0	ROCK SLIDE (10000000000000000-100000000000000000 mm)	0	ROCK SLIDE (100000000000000000-1000000000000000000 mm)	0
ROCK SLIDE (100000000000000000-1000000000000000000 mm)	0	ROCK SLIDE (1000000000000000000-10000000000000000000 mm)	0	ROCK SLIDE (10000000000000000000-100000000000000000000 mm)	0

SCORE OF TWO MOST UNDOMINANT SUBSTRATE TYPES: 21

SCORE OF TWO MOST UNDOMINANT SUBSTRATE TYPES: 21

SCORE OF TWO MOST UNDOMINANT SUBSTRATE TYPES: 21

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SCORE OF TWO MOST UNDOMINANT SUBSTRATE TYPES: 21

ADDITIONAL STREAM INFORMATION (This information must be completed)

ONSET FLOWING (Y/N) ☐ YES ☒ NO Alt. 58 (If YES, Attach Computed Chart Form)

DOWNSTREAM DESIGNATED USES: Alt. 58

DOWNSTREAM DESIGNATED USES: Alt. 58

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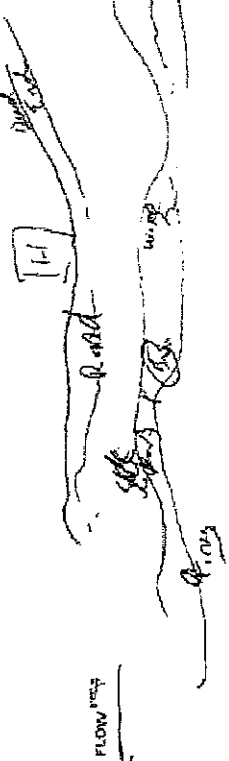
DOWNSTREAM DESIGNATED USES: Alt. 58

DOWNSTREAM DESIGNATED USES: Alt. 58

DOWNSTREAM DESIGNATED USES: Alt. 58

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)

Include important landmarks and other features in landscape in background and descriptive description of the stream's location.



A14-59

Chie EPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3): **57**

SITE INFORMATION: ALF PLANS OK
 LENGTH OF STREAM REACH IN: 1.5 MILES OK
 DATE: 6-2-02 SCORER: CHIE
 NOTE: Complete all items on this form. Refer to "Field Evaluation Manual for Ohio's Primary Streams" for instructions.
 STREAM CHANNEL: PERMANENT NATURAL CHANNEL ☒ RECOVERED ☐ INCORPORATING ☐ PRESENT OR NO COVER
 MODIFICATION:

1. SUBSTRATE (Percent of every type of substrate present. Check ONLY top predominant substrate TYPE. Note: Max of 321. And total amount of potential substrate types found (Max of 8). Filling in this area is sum of boxes A, B, C, D.
 TYPE: ☐ GRAVEL (16 pts) ☐ SAND (16 pts) ☐ SILT (16 pts) ☐ CLAY (16 pts) ☐ ROCK (16 pts) ☐ LOGS (16 pts) ☐ TWIGS (16 pts) ☐ OTHER (16 pts)
 PERCENT: 100 0 0 0 0 0 0 0
 SCORE OF THIS REACH: 160 0 0 0 0 0 0 0
 2. BANK FULL WIDTH (Measured as the average of 3 ft. measurements). (Check ONLY one box)
 < 40 ft. (16 pts) ☐ 40-60 ft. (16 pts) ☐ 60-80 ft. (16 pts) ☐ 80-100 ft. (16 pts) ☐ 100-120 ft. (16 pts) ☐ 120-140 ft. (16 pts) ☐ 140-160 ft. (16 pts) ☐ 160-180 ft. (16 pts) ☐ 180-200 ft. (16 pts) ☐ 200-220 ft. (16 pts) ☐ 220-240 ft. (16 pts) ☐ 240-260 ft. (16 pts) ☐ 260-280 ft. (16 pts) ☐ 280-300 ft. (16 pts) ☐ 300-320 ft. (16 pts) ☐ 320-340 ft. (16 pts) ☐ 340-360 ft. (16 pts) ☐ 360-380 ft. (16 pts) ☐ 380-400 ft. (16 pts) ☐ 400-420 ft. (16 pts) ☐ 420-440 ft. (16 pts) ☐ 440-460 ft. (16 pts) ☐ 460-480 ft. (16 pts) ☐ 480-500 ft. (16 pts) ☐ 500-520 ft. (16 pts) ☐ 520-540 ft. (16 pts) ☐ 540-560 ft. (16 pts) ☐ 560-580 ft. (16 pts) ☐ 580-600 ft. (16 pts) ☐ 600-620 ft. (16 pts) ☐ 620-640 ft. (16 pts) ☐ 640-660 ft. (16 pts) ☐ 660-680 ft. (16 pts) ☐ 680-700 ft. (16 pts) ☐ 700-720 ft. (16 pts) ☐ 720-740 ft. (16 pts) ☐ 740-760 ft. (16 pts) ☐ 760-780 ft. (16 pts) ☐ 780-800 ft. (16 pts) ☐ 800-820 ft. (16 pts) ☐ 820-840 ft. (16 pts) ☐ 840-860 ft. (16 pts) ☐ 860-880 ft. (16 pts) ☐ 880-900 ft. (16 pts) ☐ 900-920 ft. (16 pts) ☐ 920-940 ft. (16 pts) ☐ 940-960 ft. (16 pts) ☐ 960-980 ft. (16 pts) ☐ 980-1000 ft. (16 pts) ☐ 1000-1020 ft. (16 pts) ☐ 1020-1040 ft. (16 pts) ☐ 1040-1060 ft. (16 pts) ☐ 1060-1080 ft. (16 pts) ☐ 1080-1100 ft. (16 pts) ☐ 1100-1120 ft. (16 pts) ☐ 1120-1140 ft. (16 pts) ☐ 1140-1160 ft. (16 pts) ☐ 1160-1180 ft. (16 pts) ☐ 1180-1200 ft. (16 pts) ☐ 1200-1220 ft. (16 pts) ☐ 1220-1240 ft. (16 pts) ☐ 1240-1260 ft. (16 pts) ☐ 1260-1280 ft. (16 pts) ☐ 1280-1300 ft. (16 pts) ☐ 1300-1320 ft. (16 pts) ☐ 1320-1340 ft. (16 pts) ☐ 1340-1360 ft. (16 pts) ☐ 1360-1380 ft. (16 pts) ☐ 1380-1400 ft. (16 pts) ☐ 1400-1420 ft. (16 pts) ☐ 1420-1440 ft. (16 pts) ☐ 1440-1460 ft. (16 pts) ☐ 1460-1480 ft. (16 pts) ☐ 1480-1500 ft. (16 pts) ☐ 1500-1520 ft. (16 pts) ☐ 1520-1540 ft. (16 pts) ☐ 1540-1560 ft. (16 pts) ☐ 1560-1580 ft. (16 pts) ☐ 1580-1600 ft. (16 pts) ☐ 1600-1620 ft. (16 pts) ☐ 1620-1640 ft. (16 pts) ☐ 1640-1660 ft. (16 pts) ☐ 1660-1680 ft. (16 pts) ☐ 1680-1700 ft. (16 pts) ☐ 1700-1720 ft. (16 pts) ☐ 1720-1740 ft. (16 pts) ☐ 1740-1760 ft. (16 pts) ☐ 1760-1780 ft. (16 pts) ☐ 1780-1800 ft. (16 pts) ☐ 1800-1820 ft. (16 pts) ☐ 1820-1840 ft. (16 pts) ☐ 1840-1860 ft. (16 pts) ☐ 1860-1880 ft. (16 pts) ☐ 1880-1900 ft. (16 pts) ☐ 1900-1920 ft. (16 pts) ☐ 1920-1940 ft. (16 pts) ☐ 1940-1960 ft. (16 pts) ☐ 1960-1980 ft. (16 pts) ☐ 1980-2000 ft. (16 pts) ☐ 2000-2020 ft. (16 pts) ☐ 2020-2040 ft. (16 pts) ☐ 2040-2060 ft. (16 pts) ☐ 2060-2080 ft. (16 pts) ☐ 2080-2100 ft. (16 pts) ☐ 2100-2120 ft. (16 pts) ☐ 2120-2140 ft. (16 pts) ☐ 2140-2160 ft. (16 pts) ☐ 2160-2180 ft. (16 pts) ☐ 2180-2200 ft. (16 pts) ☐ 2200-2220 ft. (16 pts) ☐ 2220-2240 ft. (16 pts) ☐ 2240-2260 ft. (16 pts) ☐ 2260-2280 ft. (16 pts) ☐ 2280-2300 ft. (16 pts) ☐ 2300-2320 ft. (16 pts) ☐ 2320-2340 ft. (16 pts) ☐ 2340-2360 ft. (16 pts) ☐ 2360-2380 ft. (16 pts) ☐ 2380-2400 ft. (16 pts) ☐ 2400-2420 ft. (16 pts) ☐ 2420-2440 ft. (16 pts) ☐ 2440-2460 ft. (16 pts) ☐ 2460-2480 ft. (16 pts) ☐ 2480-2500 ft. (16 pts) ☐ 2500-2520 ft. (16 pts) ☐ 2520-2540 ft. (16 pts) ☐ 2540-2560 ft. (16 pts) ☐ 2560-2580 ft. (16 pts) ☐ 2580-2600 ft. (16 pts) ☐ 2600-2620 ft. (16 pts) ☐ 2620-2640 ft. (16 pts) ☐ 2640-2660 ft. (16 pts) ☐ 2660-2680 ft. (16 pts) ☐ 2680-2700 ft. (16 pts) ☐ 2700-2720 ft. (16 pts) ☐ 2720-2740 ft. (16 pts) ☐ 2740-2760 ft. (16 pts) ☐ 2760-2780 ft. (16 pts) ☐ 2780-2800 ft. (16 pts) ☐ 2800-2820 ft. (16 pts) ☐ 2820-2840 ft. (16 pts) ☐ 2840-2860 ft. (16 pts) ☐ 2860-2880 ft. (16 pts) ☐ 2880-2900 ft. (16 pts) ☐ 2900-2920 ft. (16 pts) ☐ 2920-2940 ft. (16 pts) ☐ 2940-2960 ft. (16 pts) ☐ 2960-2980 ft. (16 pts) ☐ 2980-3000 ft. (16 pts) ☐ 3000-3020 ft. (16 pts) ☐ 3020-3040 ft. (16 pts) ☐ 3040-3060 ft. (16 pts) ☐ 3060-3080 ft. (16 pts) ☐ 3080-3100 ft. (16 pts) ☐ 3100-3120 ft. (16 pts) ☐ 3120-3140 ft. (16 pts) ☐ 3140-3160 ft. (16 pts) ☐ 3160-3180 ft. (16 pts) ☐ 3180-3200 ft. (16 pts) ☐ 3200-3220 ft. (16 pts) ☐ 3220-3240 ft. (16 pts) ☐ 3240-3260 ft. (16 pts) ☐ 3260-3280 ft. (16 pts) ☐ 3280-3300 ft. (16 pts) ☐ 3300-3320 ft. (16 pts) ☐ 3320-3340 ft. (16 pts) ☐ 3340-3360 ft. (16 pts) ☐ 3360-3380 ft. (16 pts) ☐ 3380-3400 ft. (16 pts) ☐ 3400-3420 ft. (16 pts) ☐ 3420-3440 ft. (16 pts) ☐ 3440-3460 ft. (16 pts) ☐ 3460-3480 ft. (16 pts) ☐ 3480-3500 ft. (16 pts) ☐ 3500-3520 ft. (16 pts) ☐ 3520-3540 ft. (16 pts) ☐ 3540-3560 ft. (16 pts) ☐ 3560-3580 ft. (16 pts) ☐ 3580-3600 ft. (16 pts) ☐ 3600-3620 ft. (16 pts) ☐ 3620-3640 ft. (16 pts) ☐ 3640-3660 ft. (16 pts) ☐ 3660-3680 ft. (16 pts) ☐ 3680-3700 ft. (16 pts) ☐ 3700-3720 ft. (16 pts) ☐ 3720-3740 ft. (16 pts) ☐ 3740-3760 ft. (16 pts) ☐ 3760-3780 ft. (16 pts) ☐ 3780-3800 ft. (16 pts) ☐ 3800-3820 ft. (16 pts) ☐ 3820-3840 ft. (16 pts) ☐ 3840-3860 ft. (16 pts) ☐ 3860-3880 ft. (16 pts) ☐ 3880-3900 ft. (16 pts) ☐ 3900-3920 ft. (16 pts) ☐ 3920-3940 ft. (16 pts) ☐ 3940-3960 ft. (16 pts) ☐ 3960-3980 ft. (16 pts) ☐ 3980-4000 ft. (16 pts) ☐ 4000-4020 ft. (16 pts) ☐ 4020-4040 ft. (16 pts) ☐ 4040-4060 ft. (16 pts) ☐ 4060-4080 ft. (16 pts) ☐ 4080-4100 ft. (16 pts) ☐ 4100-4120 ft. (16 pts) ☐ 4120-4140 ft. (16 pts) ☐ 4140-4160 ft. (16 pts) ☐ 4160-4180 ft. (16 pts) ☐ 4180-4200 ft. (16 pts) ☐ 4200-4220 ft. (16 pts) ☐ 4220-4240 ft. (16 pts) ☐ 4240-4260 ft. (16 pts) ☐ 4260-4280 ft. (16 pts) ☐ 4280-4300 ft. (16 pts) ☐ 4300-4320 ft. (16 pts) ☐ 4320-4340 ft. (16 pts) ☐ 4340-4360 ft. (16 pts) ☐ 4360-4380 ft. (16 pts) ☐ 4380-4400 ft. (16 pts) ☐ 4400-4420 ft. (16 pts) ☐ 4420-4440 ft. (16 pts) ☐ 4440-4460 ft. (16 pts) ☐ 4460-4480 ft. (16 pts) ☐ 4480-4500 ft. (16 pts) ☐ 4500-4520 ft. (16 pts) ☐ 4520-4540 ft. (16 pts) ☐ 4540-4560 ft. (16 pts) ☐ 4560-4580 ft. (16 pts) ☐ 4580-4600 ft. (16 pts) ☐ 4600-4620 ft. (16 pts) ☐ 4620-4640 ft. (16 pts) ☐ 4640-4660 ft. (16 pts) ☐ 4660-4680 ft. (16 pts) ☐ 4680-4700 ft. (16 pts) ☐ 4700-4720 ft. (16 pts) ☐ 4720-4740 ft. (16 pts) ☐ 4740-4760 ft. (16 pts) ☐ 4760-4780 ft. (16 pts) ☐ 4780-4800 ft. (16 pts) ☐ 4800-4820 ft. (16 pts) ☐ 4820-4840 ft. (16 pts) ☐ 4840-4860 ft. (16 pts) ☐ 4860-4880 ft. (16 pts) ☐ 4880-4900 ft. (16 pts) ☐ 4900-4920 ft. (16 pts) ☐ 4920-4940 ft. (16 pts) ☐ 4940-4960 ft. (16 pts) ☐ 4960-4980 ft. (16 pts) ☐ 4980-5000 ft. (16 pts) ☐ 5000-5020 ft. (16 pts) ☐ 5020-5040 ft. (16 pts) ☐ 5040-5060 ft. (16 pts) ☐ 5060-5080 ft. (16 pts) ☐ 5080-5100 ft. (16 pts) ☐ 5100-5120 ft. (16 pts) ☐ 5120-5140 ft. (16 pts) ☐ 5140-5160 ft. (16 pts) ☐ 5160-5180 ft. (16 pts) ☐ 5180-5200 ft. (16 pts) ☐ 5200-5220 ft. (16 pts) ☐ 5220-5240 ft. (16 pts) ☐ 5240-5260 ft. (16 pts) ☐ 5260-5280 ft. (16 pts) ☐ 5280-5300 ft. (16 pts) ☐ 5300-5320 ft. (16 pts) ☐ 5320-5340 ft. (16 pts) ☐ 5340-5360 ft. (16 pts) ☐ 5360-5380 ft. (16 pts) ☐ 5380-5400 ft. (16 pts) ☐ 5400-5420 ft. (16 pts) ☐ 5420-5440 ft. (16 pts) ☐ 5440-5460 ft. (16 pts) ☐ 5460-5480 ft. (16 pts) ☐ 5480-5500 ft. (16 pts) ☐ 5500-5520 ft. (16 pts) ☐ 5520-5540 ft. (16 pts) ☐ 5540-5560 ft. (16 pts) ☐ 5560-5580 ft. (16 pts) ☐ 5580-5600 ft. (16 pts) ☐ 5600-5620 ft. (16 pts) ☐ 5620-5640 ft. (16 pts) ☐ 5640-5660 ft. (16 pts) ☐ 5660-5680 ft. (16 pts) ☐ 5680-5700 ft. (16 pts) ☐ 5700-5720 ft. (16 pts) ☐ 5720-5740 ft. (16 pts) ☐ 5740-5760 ft. (16 pts) ☐ 5760-5780 ft. (16 pts) ☐ 5780-5800 ft. (16 pts) ☐ 5800-5820 ft. (16 pts) ☐ 5820-5840 ft. (16 pts) ☐ 5840-5860 ft. (16 pts) ☐ 5860-5880 ft. (16 pts) ☐ 5880-5900 ft. (16 pts) ☐ 5900-5920 ft. (16 pts) ☐ 5920-5940 ft. (16 pts) ☐ 5940-5960 ft. (16 pts) ☐ 5960-5980 ft. (16 pts) ☐ 5980-6000 ft. (16 pts) ☐ 6000-6020 ft. (16 pts) ☐ 6020-6040 ft. (16 pts) ☐ 6040-6060 ft. (16 pts) ☐ 6060-6080 ft. (16 pts) ☐ 6080-6100 ft. (16 pts) ☐ 6100-6120 ft. (16 pts) ☐ 6120-6140 ft. (16 pts) ☐ 6140-6160 ft. (16 pts) ☐ 6160-6180 ft. (16 pts) ☐ 6180-6200 ft. (16 pts) ☐ 6200-6220 ft. (16 pts) ☐ 6220-6240 ft. (16 pts) ☐ 6240-6260 ft. (16 pts) ☐ 6260-6280 ft. (16 pts) ☐ 6280-6300 ft. (16 pts) ☐ 6300-6320 ft. (16 pts) ☐ 6320-6340 ft. (16 pts) ☐ 6340-6360 ft. (16 pts) ☐ 6360-6380 ft. (16 pts) ☐ 6380-6400 ft. (16 pts) ☐ 6400-6420 ft. (16 pts) ☐ 6420-6440 ft. (16 pts) ☐ 6440-6460 ft. (16 pts) ☐ 6460-6480 ft. (16 pts) ☐ 6480-6500 ft. (16 pts) ☐ 6500-6520 ft. (16 pts) ☐ 6520-6540 ft. (16 pts) ☐ 6540-6560 ft. (16 pts) ☐ 6560-6580 ft. (16 pts) ☐ 6580-6600 ft. (16 pts) ☐ 6600-6620 ft. (16 pts) ☐ 6620-6640 ft. (16 pts) ☐ 6640-6660 ft. (16 pts) ☐ 6660-6680 ft. (16 pts) ☐ 6680-6700 ft. (16 pts) ☐ 6700-6720 ft. (16 pts) ☐ 6720-6740 ft. (16 pts) ☐ 6740-6760 ft. (16 pts) ☐ 6760-6780 ft. (16 pts) ☐ 6780-6800 ft. (16 pts) ☐ 6800-6820 ft. (16 pts) ☐ 6820-6840 ft. (16 pts) ☐ 6840-6860 ft. (16 pts) ☐ 6860-6880 ft. (16 pts) ☐ 6880-6900 ft. (16 pts) ☐ 6900-6920 ft. (16 pts) ☐ 6920-6940 ft. (16 pts) ☐ 6940-6960 ft. (16 pts) ☐ 6960-6980 ft. (16 pts) ☐ 6980-7000 ft. (16 pts) ☐ 7000-7020 ft. (16 pts) ☐ 7020-7040 ft. (16 pts) ☐ 7040-7060 ft. (16 pts) ☐ 7060-7080 ft. (16 pts) ☐ 7080-7100 ft. (16 pts) ☐ 7100-7120 ft. (16 pts) ☐ 7120-7140 ft. (16 pts) ☐ 7140-7160 ft. (16 pts) ☐ 7160-7180 ft. (16 pts) ☐ 7180-7200 ft. (16 pts) ☐ 7200-7220 ft. (16 pts) ☐ 7220-7240 ft. (16 pts) ☐ 7240-7260 ft. (16 pts) ☐ 7260-7280 ft. (16 pts) ☐ 7280-7300 ft. (16 pts) ☐ 7300-7320 ft. (16 pts) ☐ 7320-7340 ft. (16 pts) ☐ 7340-7360 ft. (16 pts) ☐ 7360-7380 ft. (16 pts) ☐ 7380-7400 ft. (16 pts) ☐ 7400-7420 ft. (16 pts) ☐ 7420-7440 ft. (16 pts) ☐ 7440-7460 ft. (16 pts) ☐ 7460-7480 ft. (16 pts) ☐ 7480-7500 ft. (16 pts) ☐ 7500-7520 ft. (16 pts) ☐ 7520-7540 ft. (16 pts) ☐ 7540-7560 ft. (16 pts) ☐ 7560-7580 ft. (16 pts) ☐ 7580-7600 ft. (16 pts) ☐ 7600-7620 ft. (16 pts) ☐ 7620-7640 ft. (16 pts) ☐ 7640-7660 ft. (16 pts) ☐ 7660-7680 ft. (16 pts) ☐ 7680-7700 ft. (16 pts) ☐ 7700-7720 ft. (16 pts) ☐ 7720-7740 ft. (16 pts) ☐ 7740-7760 ft. (16 pts) ☐ 7760-7780 ft. (16 pts) ☐ 7780-7800 ft. (16 pts) ☐ 7800-7820 ft. (16 pts) ☐ 7820-7840 ft. (16 pts) ☐ 7840-7860 ft. (16 pts) ☐ 7860-7880 ft. (16 pts) ☐ 7880-7900 ft. (16 pts) ☐ 7900-7920 ft. (16 pts) ☐ 7920-7940 ft. (16 pts) ☐ 7940-7960 ft. (16 pts) ☐ 7960-7980 ft. (16 pts) ☐ 7980-8000 ft. (16 pts) ☐ 8000-8020 ft. (16 pts) ☐ 8020-8040 ft. (16 pts) ☐ 8040-8060 ft. (16 pts) ☐ 8060-8080 ft. (16 pts) ☐ 8080-8100 ft. (16 pts) ☐ 8100-8120 ft. (16 pts) ☐ 8120-8140 ft. (16 pts) ☐ 8140-8160 ft. (16 pts) ☐ 8160-8180 ft. (16 pts) ☐ 8180-8200 ft. (16 pts) ☐ 8200-8220 ft. (16 pts) ☐ 8220-8240 ft. (16 pts) ☐ 8240-8260 ft. (16 pts) ☐ 8260-8280 ft. (16 pts) ☐ 8280-8300 ft. (16 pts) ☐ 8300-8320 ft. (16 pts) ☐ 8320-8340 ft. (16 pts) ☐ 8340-8360 ft. (16 pts) ☐ 8360-8380 ft. (16 pts) ☐ 8380-8400 ft. (16 pts) ☐ 8400-8420 ft. (16 pts) ☐ 8420-8440 ft. (16 pts) ☐ 8440-8460 ft. (16 pts) ☐ 8460-8480 ft. (16 pts) ☐ 8480-8500 ft. (16 pts) ☐ 8500-8520 ft. (16 pts) ☐ 8520-8540 ft. (16 pts) ☐ 8540-8560 ft. (16 pts) ☐ 8560-8580 ft. (16 pts) ☐ 8580-8600 ft. (16 pts) ☐ 8600-8620 ft. (16 pts) ☐ 8620-8640 ft. (16 pts) ☐ 8640-8660 ft. (16 pts) ☐ 8660-8680 ft. (16 pts) ☐ 8680-8700 ft. (16 pts) ☐ 8700-8720 ft. (16 pts) ☐ 8720-8740 ft. (16 pts) ☐ 8740-8760 ft. (16 pts) ☐ 8760-8780 ft. (16 pts) ☐ 8780-8800 ft. (16 pts) ☐ 8800-8820 ft. (16 pts) ☐ 8820-8840 ft. (16 pts) ☐ 8840-8860 ft. (16 pts) ☐ 8860-8880 ft. (16 pts) ☐ 8880-8900 ft. (16 pts) ☐ 8900-8920 ft. (16 pts) ☐ 8920-8940 ft. (16 pts) ☐ 8940-8960 ft. (16 pts) ☐ 8960-8980 ft. (16 pts) ☐ 8980-9000 ft. (16 pts) ☐ 9000-9020 ft. (16 pts) ☐ 9020-9040 ft. (16 pts) ☐ 9040-9060 ft. (16 pts) ☐ 9060-9080 ft. (16 pts) ☐ 9080-9100 ft. (16 pts) ☐ 9100-9120 ft. (16 pts) ☐ 9120-9140 ft. (16 pts) ☐ 9140-9160 ft. (16 pts) ☐ 9160-9180 ft. (16 pts) ☐ 9180-9200 ft. (16 pts) ☐ 9200-9220 ft. (16 pts) ☐ 9220-9240 ft. (16 pts) ☐ 9240-9260 ft. (16 pts) ☐ 9260-9280 ft. (16 pts) ☐ 9280-9300 ft. (16 pts) ☐ 9300-9320 ft. (16 pts) ☐ 9320-9340 ft. (16 pts) ☐ 9340-9360 ft. (16 pts) ☐ 9360-9380 ft. (16 pts) ☐ 9380-9400 ft. (16 pts) ☐ 9400-9420 ft. (16 pts) ☐ 9420-9440 ft. (16 pts) ☐ 9440-9460 ft. (16 pts) ☐ 9460-9480 ft. (16 pts) ☐ 9480-9500 ft. (16 pts) ☐ 9500-9520 ft. (16 pts) ☐ 9520-9540 ft. (16 pts) ☐ 9540-9560 ft. (16 pts) ☐ 9560-9580 ft. (16 pts) ☐ 9580-9600 ft. (16 pts) ☐ 9600-9620 ft. (16 pts) ☐ 9620-9640 ft. (16 pts) ☐ 9640-9660 ft. (16 pts) ☐ 9660-9680 ft. (16 pts) ☐ 9680-9700 ft. (16 pts) ☐ 9700-9720 ft. (16 pts) ☐ 9720-9740 ft. (16 pts) ☐ 9740-9760 ft. (16 pts) ☐ 9760-9780 ft. (16 pts) ☐ 9780-9800 ft. (16 pts) ☐ 9800-9820 ft. (16 pts) ☐ 9820-9840 ft. (16 pts) ☐ 9840-9860 ft. (16 pts) ☐ 9860-9880 ft. (16 pts) ☐ 9880-9900 ft. (16 pts) ☐ 9900-9920 ft. (16 pts) ☐ 9920-9940 ft. (16 pts) ☐ 9940-9960 ft. (16 pts) ☐ 9960-9980 ft. (16 pts) ☐ 9980-10000 ft. (16 pts) ☐ 10000-10020 ft. (16 pts) ☐ 10020-10040 ft. (16 pts) ☐ 10040-10060 ft. (16 pts) ☐ 10060-10080 ft. (16 pts) ☐ 10080-10100 ft. (16 pts) ☐ 10100-10120 ft. (16 pts) ☐ 10120-10140 ft. (16 pts) ☐ 10140-10160 ft. (16 pts) ☐ 10160-10180 ft. (16 pts) ☐ 10180-10200 ft. (16 pts) ☐ 10200-10220 ft. (16 pts) ☐ 1022

Alt-511

Ohio EPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3): 40

STATION: Alt-511 SITE NUMBER: Alt-511 RIVER BASIN: Alt-511 RIVER: Alt-511 RIVER TYPE: Alt-511

LENGTH OF STREAM REACH: Alt-511 MILES: Alt-511 COMMENTS: Alt-511

NOTE: Complete all items on this form. Refer to "Field Evaluation Manual for Ohio's Stream Streams" for instructions.

STREAM CHANNEL: ☒ NONE / NATURAL CHANNEL ☐ RECOVERED ☐ RECOVERED DO NOT RECORD MODIFICATIONS

1. SUBSTRATE (percent of stream bed composed of substrate present. Check ONE box. Total score is sum of boxes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 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617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 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2176, 2177, 2178, 2179,

S 37

Class 1

Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3): 19

SITE LOCATION: 2026-27-10-2025
 RIVER NAME: _____ RIVER MILE: _____
 LENGTH OF STREAM REACH: _____ LAT: _____ LONG: _____ RIVER CODE: _____
 DATE: 4/12/06 SCORER: 20170 COMMENTS: _____

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's Primary Streams" for instructions.
 STREAM CHANNEL: ☒ NATURAL CHANNEL ☐ RECOVERED ☐ RECENT ON NO RECOVERY

MODIFICATIONS: 300 ft. of Substrate added to reach. 100 ft. of Bank added to reach.

SUBSTRATE		PERCENT		TOTAL NUMBER OF SUBSTRATE TYPES	
TYPE	PERCENT	TYPE	PERCENT	(A)	(B)
1. BLUE GLASS (10 mm)	☒	1. BLUE GLASS (10 mm)	☒	1	1
2. BOUNDED (10-20 mm) (10 mm)	☒	2. BOUNDED (10-20 mm) (10 mm)	☒	2	2
3. BEDROCK (10 mm)	☒	3. BEDROCK (10 mm)	☒	3	3
4. COBBLE (20-25 mm) (10 mm)	☒	4. COBBLE (20-25 mm) (10 mm)	☒	4	4
5. GRAVEL (25-50 mm) (10 mm)	☒	5. GRAVEL (25-50 mm) (10 mm)	☒	5	5
6. SAND (50-100 mm) (10 mm)	☒	6. SAND (50-100 mm) (10 mm)	☒	6	6

COMMENTS: Substrate added to reach. 100 ft. of Bank added to reach.

BANK FULL WIDTH		AVERAGE BANK FULL WIDTH (feet)	
TYPE	WIDTH	TYPE	WIDTH
1. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒	1. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒
2. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒	2. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒
3. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒	3. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒

COMMENTS: Bank full width measured on the average of 4-6 measurements.

FLOODPLAIN QUALITY		FLOODPLAIN QUALITY	
TYPE	QUALITY	TYPE	QUALITY
1. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒	1. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒
2. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒	2. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒
3. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒	3. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒

COMMENTS: Floodplain quality measured on the average of 4-6 measurements.

STREAM CHANNEL QUALITY		STREAM CHANNEL QUALITY	
TYPE	QUALITY	TYPE	QUALITY
1. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	1. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒
2. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	2. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒
3. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	3. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒

COMMENTS: Stream channel quality measured on the average of 4-6 measurements.

STREAM CHANNEL QUALITY		STREAM CHANNEL QUALITY	
TYPE	QUALITY	TYPE	QUALITY
1. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	1. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒
2. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	2. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒
3. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	3. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒

COMMENTS: Stream channel quality measured on the average of 4-6 measurements.

Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3): 19

SITE LOCATION: 2026-27-10-2025
 RIVER NAME: _____ RIVER MILE: _____
 LENGTH OF STREAM REACH: _____ LAT: _____ LONG: _____ RIVER CODE: _____
 DATE: 4/12/06 SCORER: 20170 COMMENTS: _____

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's Primary Streams" for instructions.
 STREAM CHANNEL: ☒ NATURAL CHANNEL ☐ RECOVERED ☐ RECENT ON NO RECOVERY

MODIFICATIONS: 300 ft. of Substrate added to reach. 100 ft. of Bank added to reach.

SUBSTRATE		PERCENT		TOTAL NUMBER OF SUBSTRATE TYPES	
TYPE	PERCENT	TYPE	PERCENT	(A)	(B)
1. BLUE GLASS (10 mm)	☒	1. BLUE GLASS (10 mm)	☒	1	1
2. BOUNDED (10-20 mm) (10 mm)	☒	2. BOUNDED (10-20 mm) (10 mm)	☒	2	2
3. BEDROCK (10 mm)	☒	3. BEDROCK (10 mm)	☒	3	3
4. COBBLE (20-25 mm) (10 mm)	☒	4. COBBLE (20-25 mm) (10 mm)	☒	4	4
5. GRAVEL (25-50 mm) (10 mm)	☒	5. GRAVEL (25-50 mm) (10 mm)	☒	5	5
6. SAND (50-100 mm) (10 mm)	☒	6. SAND (50-100 mm) (10 mm)	☒	6	6

COMMENTS: Substrate added to reach. 100 ft. of Bank added to reach.

BANK FULL WIDTH		AVERAGE BANK FULL WIDTH (feet)	
TYPE	WIDTH	TYPE	WIDTH
1. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒	1. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒
2. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒	2. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒
3. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒	3. BANK FULL WIDTH (measured on the average of 4-6 measurements)	☒

COMMENTS: Bank full width measured on the average of 4-6 measurements.

FLOODPLAIN QUALITY		FLOODPLAIN QUALITY	
TYPE	QUALITY	TYPE	QUALITY
1. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒	1. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒
2. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒	2. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒
3. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒	3. FLOODPLAIN QUALITY (measured on the average of 4-6 measurements)	☒

COMMENTS: Floodplain quality measured on the average of 4-6 measurements.

STREAM CHANNEL QUALITY		STREAM CHANNEL QUALITY	
TYPE	QUALITY	TYPE	QUALITY
1. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	1. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒
2. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	2. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒
3. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	3. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒

COMMENTS: Stream channel quality measured on the average of 4-6 measurements.

STREAM CHANNEL QUALITY		STREAM CHANNEL QUALITY	
TYPE	QUALITY	TYPE	QUALITY
1. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	1. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒
2. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	2. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒
3. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒	3. STREAM CHANNEL QUALITY (measured on the average of 4-6 measurements)	☒

COMMENTS: Stream channel quality measured on the average of 4-6 measurements.

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

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

[illegible][illegible][illegible]

2010-2011

ADDITIONAL SYNOPSIS INFORMATION: This information must also be completed:

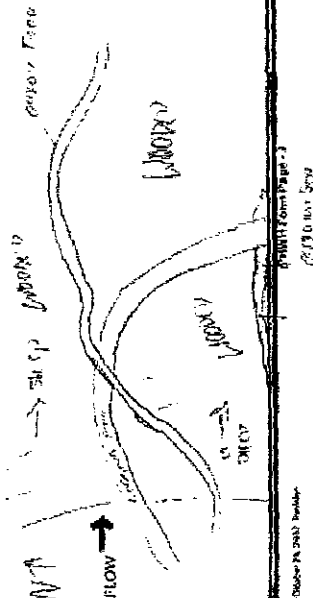
[illegible]

MOISTURE AND ALKALINITY

[illegible]

DRAWING AND NARRATIVE DESCRIPTION OF SYSTEM REACH THIS DATE TO COMPLETE:

For more information on the program, visit www.azdhs.gov.



Telephone 29 72337 Dundalk

ChicPEA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3): 24

DATE: 2 July 2008 TIME: 14:00 LOCATION: Albion Creek

WATER BODY: Albion Creek WATERSHED: Albion Creek

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Data's Primary Stream for instructions.

STREAM CHANNEL MODIFICATIONS: ☒ None ☐ Dam ☐ Diversion ☐ Other

1. SUBSTRATE (Evaluate percent of substrate types of substrate present. Check box for the percentage indicated. Enter total HHEI score in the box.)

PERCENT	HHEI	PERCENT	HHEI
0-10%	1	40-50%	4
11-20%	2	51-60%	5
21-30%	3	61-70%	6
31-40%	4	71-80%	7
41-50%	5	81-90%	8
51-60%	6	91-100%	9

2. DEPTH (Evaluate percent of stream depth. Check box for the percentage indicated. Enter total HHEI score in the box.)

PERCENT	HHEI
0-10%	1
11-20%	2
21-30%	3
31-40%	4
41-50%	5
51-60%	6
61-70%	7
71-80%	8
81-90%	9
91-100%	10

3. VEGETATION (Evaluate percent of stream bank vegetation. Check box for the percentage indicated. Enter total HHEI score in the box.)

PERCENT	HHEI
0-10%	1
11-20%	2
21-30%	3
31-40%	4
41-50%	5
51-60%	6
61-70%	7
71-80%	8
81-90%	9
91-100%	10

4. BANK FULL WIDTH (Measured as the average of 5 measurements) (Check box for the percentage indicated. Enter total HHEI score in the box.)

PERCENT	HHEI
0-10%	1
11-20%	2
21-30%	3
31-40%	4
41-50%	5
51-60%	6
61-70%	7
71-80%	8
81-90%	9
91-100%	10

5. AVERAGE CHANNEL WIDTH (measured)

Channel width (m): 1.5

6. COMMENTS

The information here is for completion only. It does not affect the HHEI score.

WATER QUALITY (Check box for the percentage indicated. Enter total HHEI score in the box.)

PERCENT	HHEI
0-10%	1
11-20%	2
21-30%	3
31-40%	4
41-50%	5
51-60%	6
61-70%	7
71-80%	8
81-90%	9
91-100%	10

7. STREAM CHANNEL MODIFICATIONS

Channel modifications: ☒ None ☐ Dam ☐ Diversion ☐ Other

CHICPEA Stream Water Quality (For Information Only) (To be Completed)

DATE: 2 July 2008 TIME: 14:00 LOCATION: Albion Creek

WATER BODY: Albion Creek WATERSHED: Albion Creek

1. WATER QUALITY

Temperature (°C): 14.5

Dissolved Oxygen (mg/L): 8.5

pH: 7.5

Conductivity (µmhos/cm): 150

Turbidity (NTU): 1.5

2. WATER QUALITY

Ammonia (mg/L): 0.1

Nitrate (mg/L): 0.5

Nitrite (mg/L): 0.1

Phosphate (mg/L): 0.1

3. WATER QUALITY

Calcium (mg/L): 100

Magnesium (mg/L): 50

Sulfate (mg/L): 100

4. WATER QUALITY

Chloride (mg/L): 100

Total Dissolved Solids (mg/L): 150

5. WATER QUALITY

Total Suspended Solids (mg/L): 1.5

Total Phosphorus (mg/L): 0.1

Total Nitrogen (mg/L): 0.5

6. WATER QUALITY

Ammonia (mg/L): 0.1

Nitrate (mg/L): 0.5

Nitrite (mg/L): 0.1

Phosphate (mg/L): 0.1

7. WATER QUALITY

Calcium (mg/L): 100

Magnesium (mg/L): 50

Sulfate (mg/L): 100

8. WATER QUALITY

Chloride (mg/L): 100

Total Dissolved Solids (mg/L): 150

9. WATER QUALITY

Total Suspended Solids (mg/L): 1.5

Total Phosphorus (mg/L): 0.1

Total Nitrogen (mg/L): 0.5

10. WATER QUALITY

Ammonia (mg/L): 0.1

Nitrate (mg/L): 0.5

Nitrite (mg/L): 0.1

Phosphate (mg/L): 0.1

11. DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACHES

Draw a sketch of the reach and other features of interest. Indicate the location of the stream's head and tail.

Flow direction: North

Stream reach: Albion Creek

Stream width: 1.5 m

Stream depth: 0.1 m

Stream velocity: 0.1 m/s

Stream temperature: 14.5 °C

Stream dissolved oxygen: 8.5 mg/L

Stream pH: 7.5

Stream conductivity: 150 µmhos/cm

Stream turbidity: 1.5 NTU

Stream ammonia: 0.1 mg/L

Stream nitrate: 0.5 mg/L

Stream nitrite: 0.1 mg/L

Stream phosphate: 0.1 mg/L

Stream calcium: 100 mg/L

Stream magnesium: 50 mg/L

Stream sulfate: 100 mg/L

Stream chloride: 100 mg/L

Stream total dissolved solids: 150 mg/L

Stream total suspended solids: 1.5 mg/L

Stream total phosphorus: 0.1 mg/L

Stream total nitrogen: 0.5 mg/L

OhioEPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3): **45**

DATE OF EVALUATION: **July 2008** NAME OF AGENCY: **St. Lawrence** COUNTY: **Franklin**

WATER BODY: **St. Lawrence River** REACH: **1000-1500** REACH ID: **1000-1500**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

1. SURVEY DATA		2. HHEI METRIC POINTS		3. COMMENTS	
DATE	7/20/08	DATE	7/20/08	DATE	7/20/08
TIME	10:00 AM	TIME	10:00 AM	TIME	10:00 AM
WATER BODY	St. Lawrence River	WATER BODY	St. Lawrence River	WATER BODY	St. Lawrence River
REACH	1000-1500	REACH	1000-1500	REACH	1000-1500
REACH ID	1000-1500	REACH ID	1000-1500	REACH ID	1000-1500
MODIFICATORS	None	MODIFICATORS	None	MODIFICATORS	None
NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.		NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.		NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.	

THE FOLLOWING METRIC POINTS WERE OBSERVED:

1. **WATER QUALITY** (1000-1500)

2. **WATER QUALITY** (1000-1500)

3. **WATER QUALITY** (1000-1500)

4. **WATER QUALITY** (1000-1500)

5. **WATER QUALITY** (1000-1500)

6. **WATER QUALITY** (1000-1500)

7. **WATER QUALITY** (1000-1500)

8. **WATER QUALITY** (1000-1500)

9. **WATER QUALITY** (1000-1500)

10. **WATER QUALITY** (1000-1500)

11. **WATER QUALITY** (1000-1500)

12. **WATER QUALITY** (1000-1500)

13. **WATER QUALITY** (1000-1500)

14. **WATER QUALITY** (1000-1500)

15. **WATER QUALITY** (1000-1500)

16. **WATER QUALITY** (1000-1500)

17. **WATER QUALITY** (1000-1500)

18. **WATER QUALITY** (1000-1500)

19. **WATER QUALITY** (1000-1500)

20. **WATER QUALITY** (1000-1500)

21. **WATER QUALITY** (1000-1500)

22. **WATER QUALITY** (1000-1500)

23. **WATER QUALITY** (1000-1500)

24. **WATER QUALITY** (1000-1500)

25. **WATER QUALITY** (1000-1500)

26. **WATER QUALITY** (1000-1500)

27. **WATER QUALITY** (1000-1500)

28. **WATER QUALITY** (1000-1500)

29. **WATER QUALITY** (1000-1500)

30. **WATER QUALITY** (1000-1500)

ADDITIONAL STREAM INFORMATION (If this information must be completed)

COMPLETION DATE: **7/20/08** (If this date is not the date of completion, please indicate the date of completion)

COMPLETION LOCATION: **St. Lawrence River**

COMPLETION TIME: **10:00 AM**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**

DATE: **7/20/08** TIME: **10:00 AM** LOCATION: **St. Lawrence River**

COMPLETION BY: **St. Lawrence**

COMPLETION BY: **St. Lawrence**

NOTE: Complete all items on this form. Refer to Field Evaluation Manual for Ohio's Primary Stream for instructions.

STREAM CHANNEL: **St. Lawrence River** TYPE OF CHANNEL: **Channel** TYPE OF BANK: **Channel**

MODIFICATORS: **None**



PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream S33



Stream Alt-S1



URS

PHOTOGRAPHIC RECORD AMP-Ohio 345 kV Alternate Transmission Line Streams

Client Name: American Municipal Power-Ohio (AMP-OH)	Site Location: Meigs County, Ohio	Project No. 14946376
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Stream Alt-S2	
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Stream Alt-S3	NO PICTURE
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URS

PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream Alt-S4



Stream Alt-S5





PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream Alt-S6



Stream Alt-S7



URS

PHOTOGRAPHIC RECORD AMP-Ohio 345 kV Alternate Transmission Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream Alt-S8



Stream Alt-S9





PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream Alt-S10



Stream Alt-S11





PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream Alt-S12



Stream Alt-S13



URS

PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream Alt-S14



Stream Alt-S15



URS

PHOTOGRAPHIC RECORD AMP-Ohio 345 kV Alternate Transmission Line Streams

Client Name: American Municipal Power-Ohio (AMP-OH)	Site Location: Meigs County, Ohio	Project No. 14946376
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Stream Alt-S16



Stream Alt-S17

NO PICTURE

URS

PHOTOGRAPHIC RECORD AMP-Ohio 345 kV Alternate Transmission Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream S31



Stream S37





PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name: American Municipal Power-Ohio (AMP-OH)	Site Location: Meigs County, Ohio	Project No. 14946376
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Stream S38



Stream S39



URS

PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream S40



Stream S41



URS

PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream S42



Stream S43



URS

PHOTOGRAPHIC RECORD
AMP-Ohio 345 kV Alternate Transmission
Line Streams

Client Name:

American Municipal Power-Ohio (AMP-OH)

Site Location:

Meigs County, Ohio

Project No.

14946376

Stream S44



Stream S45

