



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL DIVISION
ENVIRONMENTAL TECHNICAL STUDIES OFFICE
SUITE 900, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TENNESSEE 37243-1402
(615) 741-3655**

WILL REID
COMMISSIONER

BILL LEE
GOVERNOR

MEMORANDUM

To: Steve Sellers, Manager
Region 4 Alternative Delivery

From: Rita Thompson
Tech Studies Office, Ecology Unit *Rita M. Thompson*

Date: 08/14/2025

Subject: Environmental Boundaries Report for:
PIN 136185.10 (Old PIN 134858.00): SR-87 Bridge Replacement at LM 6.42
(Bridge #48)
Lauderdale County, TN

An ecological evaluation of the subject project has been conducted in response to a request for initial feature identification with the following result:

STREAMS: Three (3) streams and two (2) wet weather conveyance/ephemeral streams were noted within the project limits.

WETLANDS: No wetlands were noted within the project limits.

OTHER FEATURES: No other features were noted within the project limits

SPECIES:

- *USFWS:* USFWS coordination was completed on May 21, 2025. USFWS did not have concerns for listed species. TDOT has determined there will be no effect to listed species as a result of the project.
- *TWRA:* TWRA coordination was completed on May 21, 2025. TWRA did not have species concerns
- *TDEC DNA:* This project fits condition #1 of the TDEC DNA MOA

COMMITMENTS: There are no project commitments.

Please note the fieldwork and coordination for the project was completed under the old PIN referenced above. If you have any questions or concerns, please contact me at (615) 253-2459 or rita.m.thompson@tn.gov.

xc: TDOT.Env.Ecology@tn.gov
 TDOT.Env.Permits@tn.gov
 TDOT.ENV.Mitigation@tn.gov
 TDOT.ENV.NEPA@tn.gov
 R4.EnvTechOffice@tn.gov

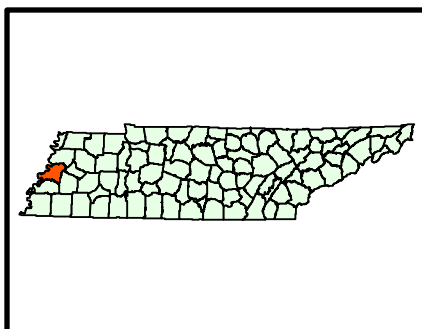
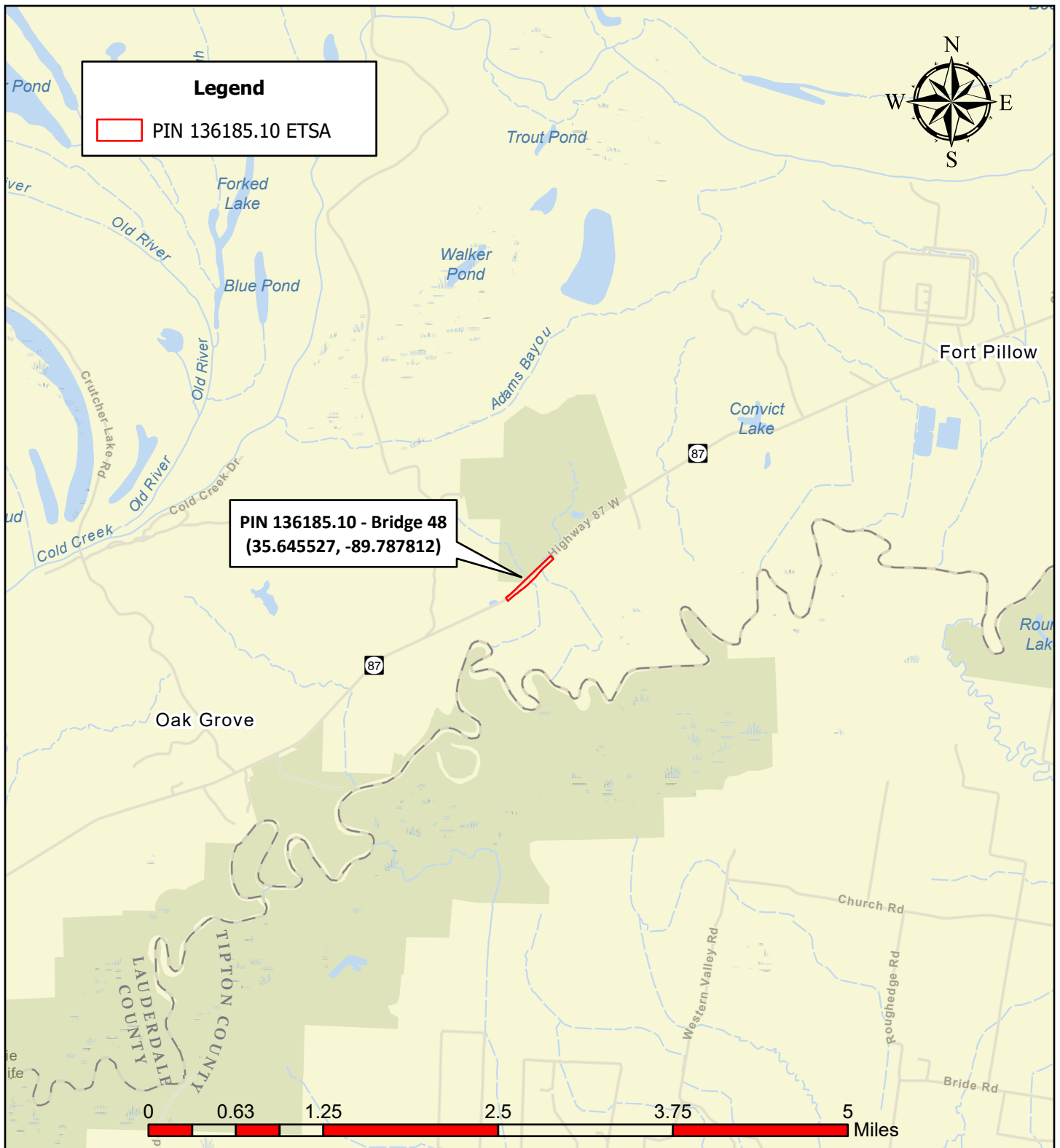
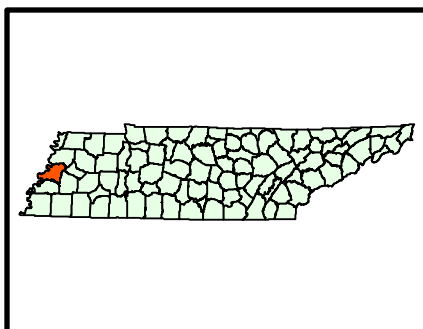
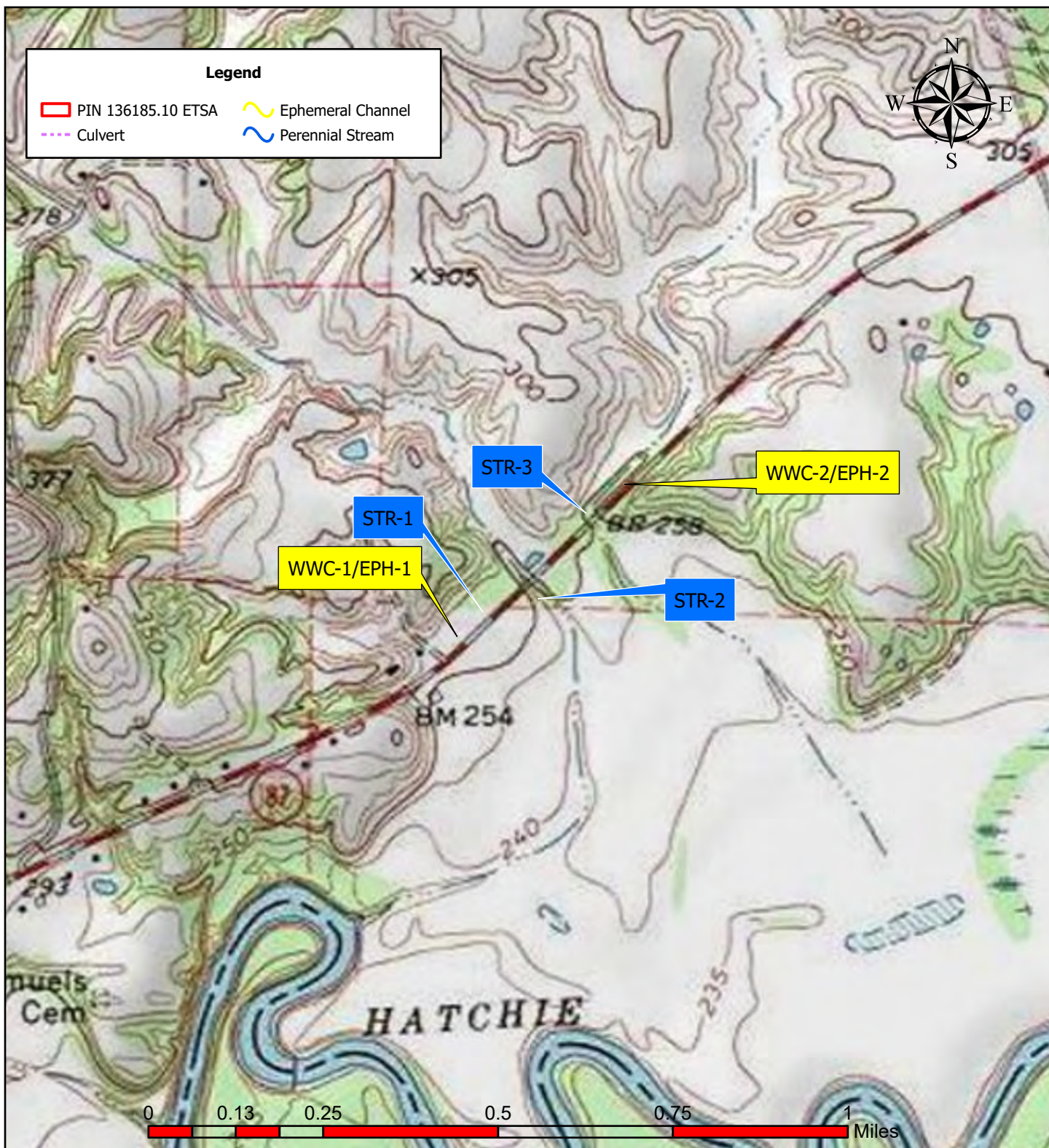


Figure 1: Vicinity Map
Lauderdale County, R4 Timber Bridge Bundle - Bridge 48

ESRI World Street Map Basemap
August 6, 2025

PIN 136185.10

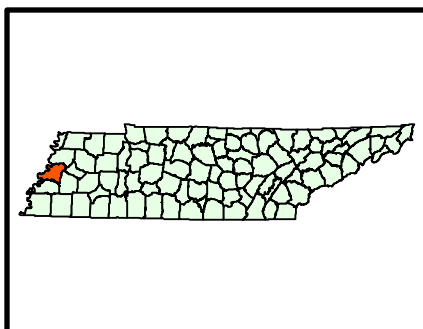
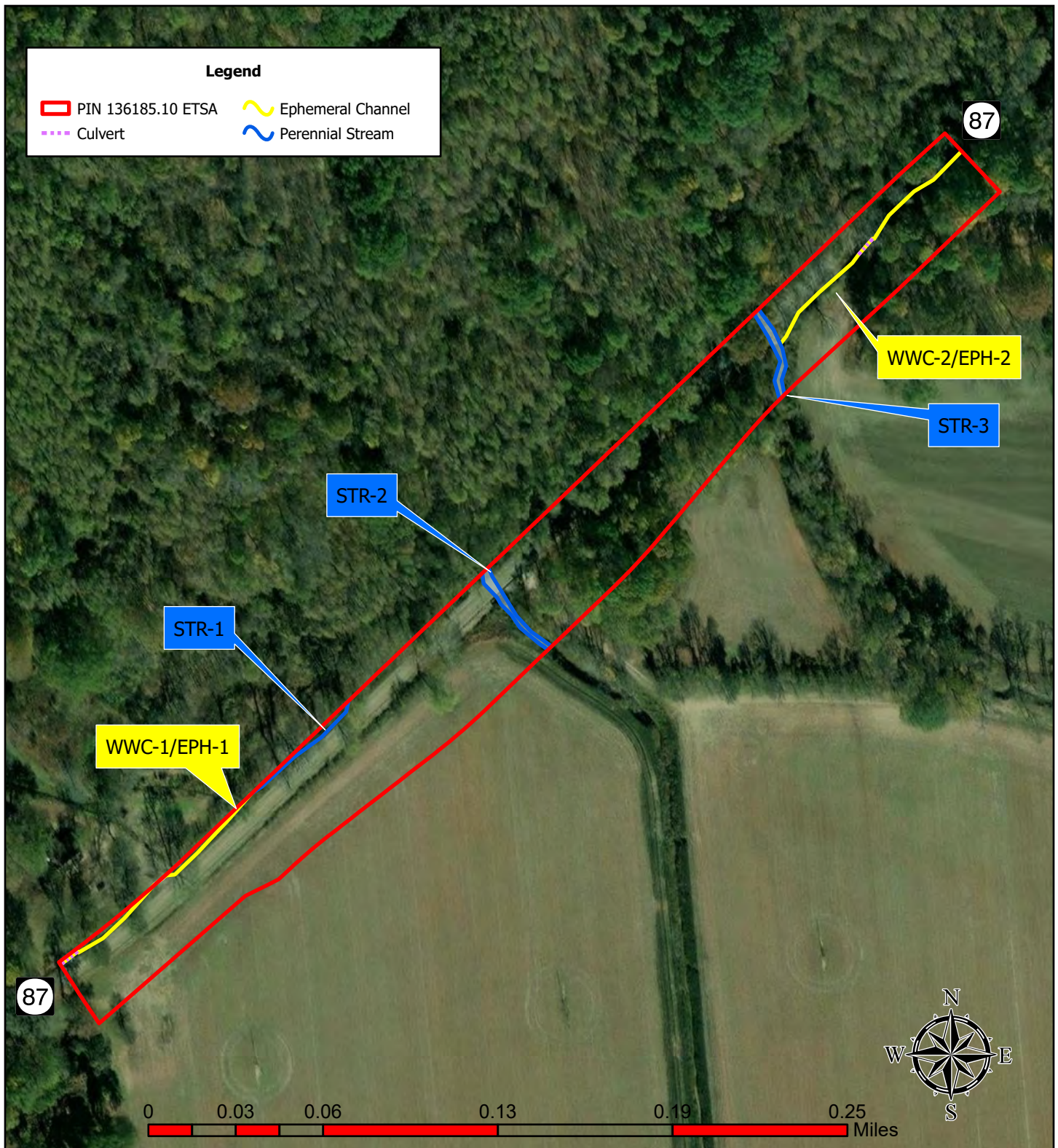




**Figure 2: Water Resources Topographic Map
Lauderdale County, R4 Timber Bridge Bundle - Bridge 48**

Gates, TN USGS Quadrangle
August 6, 2025

PIN 136185.10



**Figure 3: Water Resources Aerial Map
Lauderdale County, R4 Timber Bridge Bundle - Bridge 48**

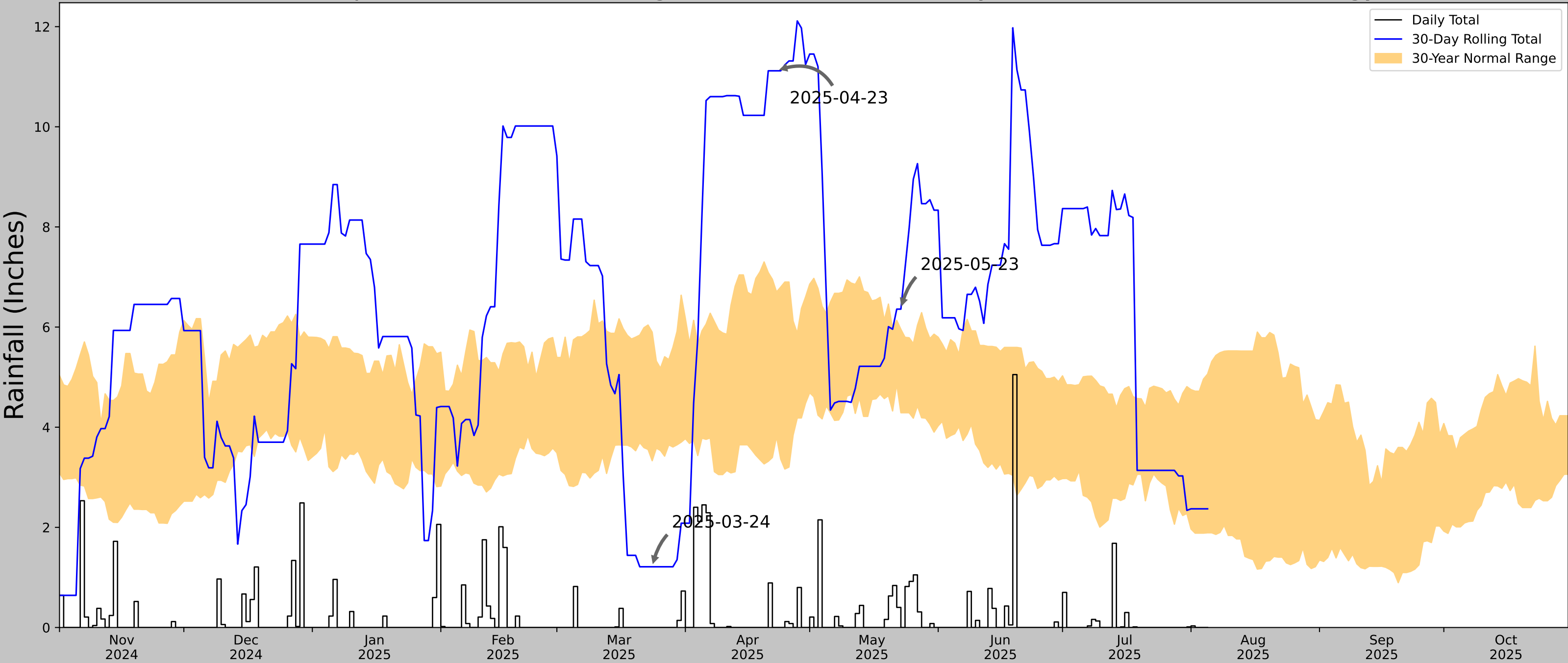
**2022 Maxar Vivid Standard Imagery
August 6, 2025**

PIN 136185.10




Project Name: Lauderdale County SR-87 R4 Timber Bridge Bundle Project		PIN: 136185.10					
<div>Water Resource Table for NEPA Documentation</div> <div>Based on: ETSA</div> <div>Date: 5/23/2025, 7/31/2025</div> <div>Table Amounts are based on (choose only one): Estimated extent of resource within ETSA</div>							
Water Resources (Non-Wetland)							
Label	Type	Latitude	Longitude	Receiving Waters		USACE Jurisdiction	Quality
WWC-1/EPH-1	Wet Weather Conveyance/Ephemeral	35.644357	-89.790302	Hatchie River		No	Not Applicable
STR-1	Perennial Stream	35.644740	-89.789118	Hatchie River		Yes	Unassessed
STR-2	Perennial Stream	35.645439	-89.788082	Hatchie River		Yes	Unassessed
STR-3	Perennial Stream	35.646554	-89.786586	Hatchie River		Yes	Unassessed
WWC-2/EPH-2	Wet Weather Conveyance/Ephemeral	35.644357	-89.790302	Hatchie River		No	Not Applicable
Note- Features and estimated amounts referenced in this table are based on information available and may change as the project is further refined throughout project development.							

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network




Coordinates	35.64548, -89.78781
Observation Date	2025-05-23
Elevation (ft)	253.842
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2025-05-23	4.288583	5.955512	6.358268	Wet	3	3	9
2025-04-23	3.812992	6.701969	11.118111	Wet	3	2	6
2025-03-24	3.329921	5.898425	1.212598	Dry	1	1	1
Result							Wetter than Normal - 16



**US Army Corps
of Engineers**



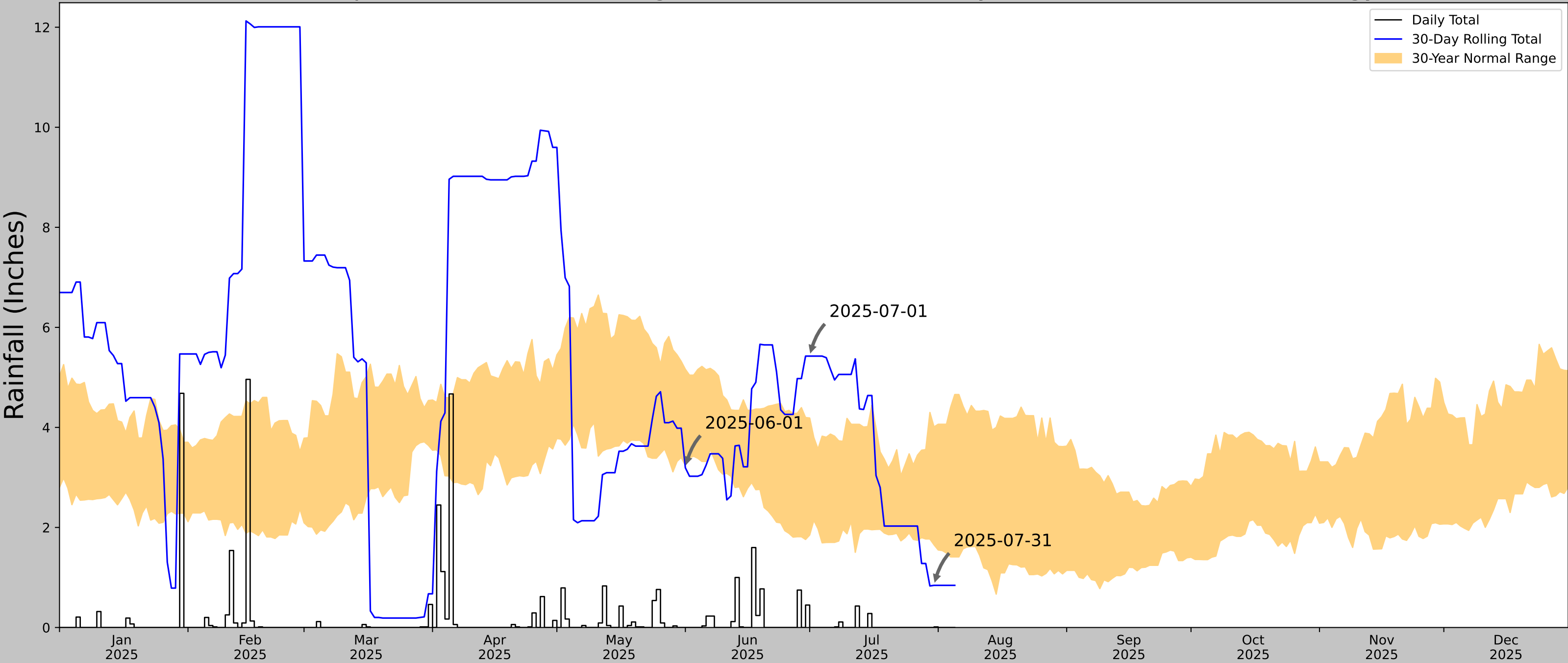
ERDC
ENGINEERING RESEARCH AND
DEVELOPMENT CENTER

Figures and tables made by the
Antecedent Precipitation Tool
Version 3.0

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
KEISER	35.6744, -90.0842	223.097	16.758	30.745	8.056	11274	86
MANILA 3.6 SSW	35.8337, -90.1778	232.94	12.194	9.843	5.607	2	0
BLYTHEVILLE	35.9239, -89.9044	251.969	19.967	28.872	9.562	3	0
BLYTHEVILLE 0.9 NE	35.9421, -89.9128	259.843	20.841	36.746	10.144	23	4
BLYTHEVILLE 1.8 E	35.9371, -89.8926	258.858	21.088	35.761	10.244	7	0
BLYTHEVILLE 1.9 ENE	35.9427, -89.8926	258.858	21.422	35.761	10.406	1	0
MUNFORD 6.8 WNW	35.4725, -89.9227	403.871	16.643	180.774	10.498	1	0
BLYTHEVILLE MUNI AP	35.9378, -89.8331	254.921	23.004	31.824	11.084	40	0
ARLINGTON 7.1 WNW	35.3065, -89.7873	328.084	30.416	104.987	16.88	2	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network




Coordinates	35.64548, -89.78781
Observation Date	2025-07-31
Elevation (ft)	253.842
Drought Index (PDSI)	Moderate wetness (2025-06)
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2025-07-31	1.652362	4.011024	0.84252	Dry	1	3	3
2025-07-01	1.848425	4.188583	5.425197	Wet	3	2	6
2025-06-01	3.244882	5.162205	3.192913	Dry	1	1	1
Result							Normal Conditions - 10



US Army Corps
of Engineers



ERDC

Figures and tables made by the
Antecedent Precipitation Tool
Version 3.0

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
BLYTHEVILLE MUNI AP	35.9378, -89.8331	254.921	20.356	1.079	9.182	9328	84
BLYTHEVILLE 6.1 E	35.9496, -89.8179	253.937	1.178	0.984	0.531	27	6
BLYTHEVILLE 1.8 E	35.9371, -89.8926	258.858	3.329	3.937	1.511	10	0
BLYTHEVILLE 1.9 ENE	35.9427, -89.8926	258.858	3.346	3.937	1.519	8	0
BLYTHEVILLE	35.9239, -89.9044	251.969	4.103	2.952	1.858	1940	0
BLYTHEVILLE 0.9 NE	35.9421, -89.9128	259.843	4.468	4.922	2.033	14	0
KEISER	35.6744, -90.0842	223.097	23.004	31.824	11.084	24	0
GATES 1.9 S	35.8115, -89.406	390.092	25.454	135.171	14.895	1	0
BARTLETT 3.1 NNE	35.2546, -89.8068	287.074	47.228	32.153	22.771	1	0

Ecology Field Data Sheet: **Water Resources**

Project: PN136185.10									
Biologist:		I. Maldonado / L. Niven		Affiliation:		Athena EE		Date: 5/23/2025	
1-Station: from plans									
2-Map label and name		LM 6.42 / WWC-1 / EPH-1							
3-Latitude/Longitude		35.644357, -89.790302							
4-Feature description:									
-channel identification		perennial stream <input type="checkbox"/>		intermittent stream <input type="checkbox"/>		ephemeral stream <input type="checkbox"/>		wwc <input checked="" type="checkbox"/>	
-HD score (if applicable)		16.5							
-OHWM indicators		bed & banks <input checked="" type="checkbox"/>		deposition <input type="checkbox"/>		presence of litter debris <input type="checkbox"/>		scour <input type="checkbox"/>	
		change in plant community <input type="checkbox"/>		destruction of terrestrial veg <input type="checkbox"/>		multiple observe flow events <input type="checkbox"/>		sediment sorting <input checked="" type="checkbox"/>	
		change in soil character <input type="checkbox"/>		leaf litter disturb or absent <input checked="" type="checkbox"/>		natural line impressed on bank <input checked="" type="checkbox"/>		shelving <input type="checkbox"/>	
-channel bottom width		1.5'				-top of bank width		3'	
-width and max depth at ordinary high water mark		2' and 0.5'							
-width at bankfull		3'							
-bank height		LDB - 1.5'				RDB - 1.5'			
-riffle/pool complex or other specialized habitat present?		N/A							
-dominant riparian species:		LDB: grasses							
------(LDB /RDB)-----		RDB: grasses							
-particle size distribution %		Silt/Sand: 90		Gravel: 10		Cobble:		Boulder:	
								Bedrock: 0	
5-photo numbers		1-6							
6-HUC -8 Code & Name		08010208 - Lower Hatchie							
7-Assessed		yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>					
8-ETW		yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>					
9-303 (d) List		yes <input type="checkbox"/>		siltation <input type="checkbox"/>		habitat: <input type="checkbox"/>		other: <input type="checkbox"/>	
		no <input checked="" type="checkbox"/>							
10-Notes		Roadside ditch originates from pond overflow.							



Hydrologic Determination Field Data Sheet

Tennessee Division of Water Resources, Version 1.5 (Fillable Form)

Named Waterbody: UNT to Hatchie River		Date/Time: 5/23
Assessors/Affiliation: I. Maldonado / L. Niven		Project ID : 136185.10
Site Name/Description: Bridge Repair Over Branch		
Site Location: WWC-1 / EPH-1 (LM 6.42)		
HUC (12 digit): 080102080806 - Hatchie River Outlet	Latitude: 35.644357	
Previous Rainfall (7-days) : 2.87"	Longitude: -89.790302	
Precipitation this Season vs. Normal : average Source of recent & seasonal precip. data : NOAA / weather.gov		
Watershed Size : <2.0 sq. mi.	County: Lauderdale	
Soil Type(s) / Geology : Ad - Adler silt loam, 0 to 2 percent slopes, frequently flooded	Source: Web Soil Survey	
Surrounding Land Use : Forested / Agricultural		
Degree of historical alteration to natural channel morphology & hydrology (select one & describe fully in Notes) : Moderate		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	<input checked="" type="checkbox"/>	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	<input checked="" type="checkbox"/>	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	N/A <input checked="" type="checkbox"/>	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	<input checked="" type="checkbox"/>	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	<input checked="" type="checkbox"/>	Stream
6. Presence of fish (except <i>Gambusia</i>)	<input checked="" type="checkbox"/>	Stream
7. Presence of naturally occurring ground water table connection	<input checked="" type="checkbox"/>	Stream
8. Flowing water in channel and 7 days since last precip >0.1" in local watershed	<input checked="" type="checkbox"/>	Stream
9. Evidence watercourse has been used as a supply of drinking water	<input checked="" type="checkbox"/>	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in
TDEC-DWR Guidance For Making Hydrologic Determinations, Version 1.5

Overall Hydrologic Determination = WET WEATHER CONVEYANCE

Secondary Indicator Score (if applicable) = 16.50

Justification / Notes :

Roadside ditch sourced from pond overflow upgradient. forms confluence with STR-1 where STR-1 enters ROW
moderate sorting
flow in channel

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 7.25)	Absent	Weak	Moderate	Strong	
1. Continuous bed and bank	0	1	2	3	2
2. Sinuous channel	0	1	2	3	0.5
3. In-channel structure: riffle-pool sequences	0	1	2	3	0.5
4. Sorting of soil textures or other substrate	0	1	2	3	2
5. Active/relic floodplain	0	0.5	1	1.5	0
6. Depositional bars or benches	0	1	2	3	0.5
7. Braided channel	0	1	2	3	0
8. Recent alluvial deposits	0	0.5	1	1.5	1
9. Natural levees	0	1	2	3	0
10. Headcuts	0	1	2	3	0
11. Grade controls	0	0.5	1	1.5	0.5
12. Natural valley or drainageway	0	0.5	1	1.5	0.25
13. At least second order channel on existing USGS or NRCS map	0	1	2	3	0

B. Hydrology (Subtotal = 6.25)	Absent	Weak	Moderate	Strong	
14. Subsurface flow/discharge into channel	0	1	2	3	1
15. Water in channel and >48 hours since sig. rain	0	1	2	3	1.5
16. Leaf litter in channel	1.5	1	0.5	0	1
17. Sediment on plants or on debris	0	0.5	1	1.5	0.75
18. Organic debris lines or piles (wrack lines)	0	0.5	1	1.5	0.5
19. Hydric soils in channel bed or sides of channel	No = 0		Yes = 1.5		1.5

C. Biology (Subtotal = 3.00)	Absent	Weak	Moderate	Strong	
20. Fibrous roots in channel bed ¹	3	2	1	0	1.5
21. Rooted plants in the thalweg ¹	3	2	1	0	1.5
22. Crayfish in stream (exclude in floodplain)	0	1	2	3	0
23. Bivalves/mussels	0	1	2	3	0
24. Amphibians	0	0.5	1	1.5	0
25. Macroinvertebrates (record type & abundance)	0	1	2	3	0
26. Filamentous algae; periphyton	0	1	2	3	0
27. Iron oxidizing bacteria/fungus	0	0.5	1	1.5	0
28. Wetland plants in channel bed ²	0	0.5	1	1.5	0

¹ Focus is on the presence of terrestrial plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 16.50

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes :

clear turbidity

no biology present (dead rat snake in channel)

Ecology Field Data Sheet: **Water Resources**

Project: PN136185.10										
Biologist:	I. Maldonado / L. Niven		Affiliation:	Athena EE		Date:	5/23/2025			
1-Station: from plans										
2-Map label and name	LM 6.42 / STR-1									
3-Latitude/Longitude	35.644740, -89.789118									
4-Feature description:										
-channel identification	perennial stream	<input checked="" type="checkbox"/>	intermittent stream	<input type="checkbox"/>	ephemeral stream	<input type="checkbox"/>	wwc	<input type="checkbox"/>		
-HD score (if applicable)	19.75									
-OHWM indicators	bed & banks	<input checked="" type="checkbox"/>	deposition	<input type="checkbox"/>	presence of litter debris	<input type="checkbox"/>	scour	<input checked="" type="checkbox"/>	veg absent, bent, matted	<input type="checkbox"/>
	change in plant community	<input type="checkbox"/>	destruction of terrestrial veg	<input checked="" type="checkbox"/>	multiple observe flow events	<input type="checkbox"/>	sediment sorting	<input checked="" type="checkbox"/>	water staining	<input type="checkbox"/>
	change in soil character	<input type="checkbox"/>	leaf litter disturb or absent	<input checked="" type="checkbox"/>	natural line impressed on bank	<input checked="" type="checkbox"/>	shelving	<input type="checkbox"/>	wracking	<input type="checkbox"/>
-channel bottom width	1.5'			-top of bank width			3'			
-width and max depth at ordinary high water mark	1.8' and .5'									
-width at bankfull	3'									
-bank height	LDB - 2.5'				RDB - 2.5'					
-riffle/pool complex or other specialized habitat present?	N/A									
-dominant riparian species: ------(LDB /RDB)-----	LDB: grasses									
	RDB: grasses									
-particle size distribution %	Silt/Sand:	75	Gravel:	20	Cobble:	5	Boulder:		Bedrock:	0
5-photo numbers	7-10									
6-HUC -8 Code & Name	08010208 - Lower Hatchie									
7-Assessed	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>						
8-ETW	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>						
9-303 (d) List	yes	<input type="checkbox"/>	siltation	<input type="checkbox"/>	habitat:	<input type="checkbox"/>	<input type="checkbox"/>	other:	<input type="checkbox"/>	<input type="checkbox"/>
	no	<input checked="" type="checkbox"/>								
10-Notes										



Hydrologic Determination Field Data Sheet

Tennessee Division of Water Resources, Version 1.5 (Fillable Form)

Named Waterbody: UNT to Hatchie River		Date/Time: 5/23
Assessors/Affiliation: I. Maldonado / L. Niven		Project ID : 136185.10
Site Name/Description: Bridge Repair Over Branch		
Site Location: STR-1 (LM 6.42)		
HUC (12 digit): 080102080806 - Hatchie River Outlet	Latitude: 35.644740	
Previous Rainfall (7-days) : 2.87"	Longitude: -89.789118	
Precipitation this Season vs. Normal : average Source of recent & seasonal precip. data : NOAA / weather.gov		
Watershed Size : 0.7 sq. mi.	County: Lauderdale	
Soil Type(s) / Geology : Ad - Adler silt loam, 0 to 2 percent slopes, frequently flooded	Source: Web Soil Survey	
Surrounding Land Use : Forested / Agricultural		
Degree of historical alteration to natural channel morphology & hydrology (select one & describe fully in Notes) : Moderate		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	<input checked="" type="checkbox"/>	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	<input checked="" type="checkbox"/>	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	<input checked="" type="checkbox"/> N/A	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	<input checked="" type="checkbox"/>	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	<input checked="" type="checkbox"/>	Stream
6. Presence of fish (except <i>Gambusia</i>)	<input checked="" type="checkbox"/>	Stream
7. Presence of naturally occurring ground water table connection	<input checked="" type="checkbox"/>	Stream
8. Flowing water in channel and 7 days since last precip >0.1" in local watershed	<input checked="" type="checkbox"/>	Stream
9. Evidence watercourse has been used as a supply of drinking water	<input checked="" type="checkbox"/>	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in
TDEC-DWR Guidance For Making Hydrologic Determinations, Version 1.5

Overall Hydrologic Determination = STREAM

Secondary Indicator Score (if applicable) = 19.75

Justification / Notes :

flow from off site forested / pasture area, directed into roadside ditch. ultimate forms confluence with main stream in project (STR-2)

good / average flow

frogs observed

good riparian buffer outside of project

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 8.50)	Absent	Weak	Moderate	Strong	
1. Continuous bed and bank	0	1	2	3	3
2. Sinuous channel	0	1	2	3	1
3. In-channel structure: riffle-pool sequences	0	1	2	3	1
4. Sorting of soil textures or other substrate	0	1	2	3	1
5. Active/relic floodplain	0	0.5	1	1.5	0
6. Depositional bars or benches	0	1	2	3	1
7. Braided channel	0	1	2	3	0
8. Recent alluvial deposits	0	0.5	1	1.5	0.5
9. Natural levees	0	1	2	3	0
10. Headcuts	0	1	2	3	0
11. Grade controls	0	0.5	1	1.5	0.5
12. Natural valley or drainageway	0	0.5	1	1.5	0.5
13. At least second order channel on existing USGS or NRCS map	0	1	2	3	0

B. Hydrology (Subtotal = 7.75)	Absent	Weak	Moderate	Strong	
14. Subsurface flow/discharge into channel	0	1	2	3	1.5
15. Water in channel and >48 hours since sig. rain	0	1	2	3	2
16. Leaf litter in channel	1.5	1	0.5	0	1
17. Sediment on plants or on debris	0	0.5	1	1.5	0.75
18. Organic debris lines or piles (wrack lines)	0	0.5	1	1.5	1
19. Hydric soils in channel bed or sides of channel	No = 0		Yes = 1.5		1.5

C. Biology (Subtotal = 3.50)	Absent	Weak	Moderate	Strong	
20. Fibrous roots in channel bed ¹	3	2	1	0	2
21. Rooted plants in the thalweg ¹	3	2	1	0	1.5
22. Crayfish in stream (exclude in floodplain)	0	1	2	3	0
23. Bivalves/mussels	0	1	2	3	0
24. Amphibians	0	0.5	1	1.5	0
25. Macroinvertebrates (record type & abundance)	0	1	2	3	0
26. Filamentous algae; periphyton	0	1	2	3	0
27. Iron oxidizing bacteria/fungus	0	0.5	1	1.5	0
28. Wetland plants in channel bed ²	0	0.5	1	1.5	0

¹ Focus is on the presence of terrestrial plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 19.75

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes :

clear turbidity

matted down vegetation along banks of roadside

Rip rap located at exit point of ROW in channel

farm field with no culvert through channel outside of ROW

Ecology Field Data Sheet: **Water Resources**

Project: PN136185.10									
Biologist:		I. Maldonado / L. Niven		Affiliation:		Athena EE		Date: 5/23/2025	
1-Station: from plans									
2-Map label and name LM 6.42 / STR-2									
3-Latitude/Longitude 35.645439, -89.788082									
4-Feature description:									
-channel identification		perennial stream <input checked="" type="checkbox"/>		intermittent stream <input type="checkbox"/>		ephemeral stream <input type="checkbox"/>		wwc <input type="checkbox"/>	
-HD score (if applicable)		28.00							
-OHWM indicators		bed & banks <input checked="" type="checkbox"/>		deposition <input type="checkbox"/>		presence of litter debris <input type="checkbox"/>		scour <input type="checkbox"/>	
		change in plant community <input checked="" type="checkbox"/>		destruction of terrestrial veg <input type="checkbox"/>		multiple observe flow events <input type="checkbox"/>		sediment sorting <input checked="" type="checkbox"/>	
		change in soil character <input checked="" type="checkbox"/>		leaf litter disturb or absent <input type="checkbox"/>		natural line impressed on bank <input type="checkbox"/>		shelving <input checked="" type="checkbox"/>	
-channel bottom width		8'			-top of bank width			20'	
-width and max depth at ordinary high water mark		13' and 1.5'							
-width at bankfull		20'							
-bank height		LDB - 2.5'				RDB - 2.5'			
-riffle/pool complex or other specialized habitat present?		N/A							
-dominant riparian species:		LDB: Equisetum sp							
------(LDB /RDB)-----		RDB: Equisetum sp							
-particle size distribution %		Silt/Sand: 65		Gravel: 20		Cobble: 15		Boulder: <input type="text"/>	
								Bedrock: 0	
5-photo numbers		11-14							
6-HUC -8 Code & Name		08010208 - Lower Hatchie							
7-Assessed		yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>					
8-ETW		yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>					
9-303 (d) List		yes <input type="checkbox"/>		siltation <input type="checkbox"/>		habitat: <input type="text"/>		other: <input type="text"/>	
		no <input checked="" type="checkbox"/>							
10-Notes									



Hydrologic Determination Field Data Sheet

Tennessee Division of Water Resources, Version 1.5 (Fillable Form)

Named Waterbody: UNT to Hatchie River		Date/Time: 5/23
Assessors/Affiliation: I. Maldonado / L. Niven		Project ID :
Site Name/Description: Bridge Repair Over Branch		136185.10
Site Location: STR-2 (LM 6.42)		
HUC (12 digit): 080102080806 - Hatchie River Outlet	Latitude: 35.645439	
Previous Rainfall (7-days) : 2.87"	Longitude: -89.788082	
Precipitation this Season vs. Normal : average NOAA / weather.gov Source of recent & seasonal precip. data :		
Watershed Size : 0.48 sq. mi.	County: Lauderdale	
Soil Type(s) / Geology : Ad - Adler silt loam, 0 to 2 percent slopes, frequently flooded	Source: Web Soil Survey	
Surrounding Land Use : Forested / Agricultural		
Degree of historical alteration to natural channel morphology & hydrology (select one & describe fully in Notes) : Slight		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	<input checked="" type="checkbox"/>	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	<input checked="" type="checkbox"/>	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	N/A <input checked="" type="checkbox"/>	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	<input checked="" type="checkbox"/>	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	<input checked="" type="checkbox"/>	Stream
6. Presence of fish (except <i>Gambusia</i>)	<input checked="" type="checkbox"/>	Stream
7. Presence of naturally occurring ground water table connection	<input checked="" type="checkbox"/>	Stream
8. Flowing water in channel and 7 days since last precip >0.1" in local watershed	<input checked="" type="checkbox"/>	Stream
9. Evidence watercourse has been used as a supply of drinking water	<input checked="" type="checkbox"/>	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in
TDEC-DWR Guidance For Making Hydrologic Determinations, Version 1.5

Overall Hydrologic Determination = STREAM

Secondary Indicator Score (if applicable) = 28.00

Justification / Notes :

Main channel beneath bridge flowing NW to SE ultimately forms confluence with the Hatchie River
Riprap reinforcement under bridge piers, creating associated riffles. so runs up and down stream of bridge
good / average flow
frogs observed
good riparian buffer outside of project

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 13.75)	Absent	Weak	Moderate	Strong	
1. Continuous bed and bank	0	1	2	3	3
2. Sinuous channel	0	1	2	3	1
3. In-channel structure: riffle-pool sequences	0	1	2	3	1.5
4. Sorting of soil textures or other substrate	0	1	2	3	2
5. Active/relic floodplain	0	0.5	1	1.5	0.5
6. Depositional bars or benches	0	1	2	3	2
7. Braided channel	0	1	2	3	0
8. Recent alluvial deposits	0	0.5	1	1.5	1
9. Natural levees	0	1	2	3	0
10. Headcuts	0	1	2	3	0
11. Grade controls	0	0.5	1	1.5	0.75
12. Natural valley or drainageway	0	0.5	1	1.5	1
13. At least second order channel on existing USGS or NRCS map	0	1	2	3	1

B. Hydrology (Subtotal = 10.25)	Absent	Weak	Moderate	Strong	
14. Subsurface flow/discharge into channel	0	1	2	3	3
15. Water in channel and >48 hours since sig. rain	0	1	2	3	3
16. Leaf litter in channel	1.5	1	0.5	0	1.5
17. Sediment on plants or on debris	0	0.5	1	1.5	0.75
18. Organic debris lines or piles (wrack lines)	0	0.5	1	1.5	0.5
19. Hydric soils in channel bed or sides of channel	No = 0		Yes = 1.5		1.5

C. Biology (Subtotal = 4.00)	Absent	Weak	Moderate	Strong	
20. Fibrous roots in channel bed ¹	3	2	1	0	NA
21. Rooted plants in the thalweg ¹	3	2	1	0	3
22. Crayfish in stream (exclude in floodplain)	0	1	2	3	0
23. Bivalves/mussels	0	1	2	3	0
24. Amphibians	0	0.5	1	1.5	1
25. Macroinvertebrates (record type & abundance)	0	1	2	3	0
26. Filamentous algae; periphyton	0	1	2	3	0
27. Iron oxidizing bacteria/fungus	0	0.5	1	1.5	0
28. Wetland plants in channel bed ²	0	0.5	1	1.5	0

¹ Focus is on the presence of terrestrial plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 28.00

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes :

raised turbidity

Ecology Field Data Sheet: **Water Resources**

Project: PN136185.10									
Biologist:		I. Maldonado / L. Niven		Affiliation:		Athena EE		Date: 5/23/2025	
1-Station: from plans									
2-Map label and name LM 6.42 / STR-3									
3-Latitude/Longitude 35.646554, -89.786586									
4-Feature description:									
-channel identification		perennial stream <input checked="" type="checkbox"/>		intermittent stream <input type="checkbox"/>		ephemeral stream <input type="checkbox"/>		wwc <input type="checkbox"/>	
-HD score (if applicable)		30.50							
-OHWM indicators		bed & banks <input checked="" type="checkbox"/>		deposition <input type="checkbox"/>		presence of litter debris <input type="checkbox"/>		scour <input type="checkbox"/>	
		change in plant community <input checked="" type="checkbox"/>		destruction of terrestrial veg <input type="checkbox"/>		multiple observe flow events <input type="checkbox"/>		sediment sorting <input type="checkbox"/>	
		change in soil character <input checked="" type="checkbox"/>		leaf litter disturb or absent <input type="checkbox"/>		natural line impressed on bank <input checked="" type="checkbox"/>		shelving <input type="checkbox"/>	
-channel bottom width		8'			-top of bank width			20'	
-width and max depth at ordinary high water mark		11' and 1.0'							
-width at bankfull		20'							
-bank height		LDB - 8'				RDB - 4'			
-riffle/pool complex or other specialized habitat present?		N/A							
-dominant riparian species:		LDB: Acer sp							
------(LDB /RDB)-----		RDB: Acer sp							
-particle size distribution %		Silt/Sand: 65		Gravel: 20		Cobble: 15		Boulder:	
								Bedrock: 0	
5-photo numbers		15-22							
6-HUC -8 Code & Name		08010208 - Lower Hatchie							
7-Assessed		yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>					
8-ETW		yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>					
9-303 (d) List		yes <input type="checkbox"/>		siltation <input type="checkbox"/>		habitat: <input type="checkbox"/>		other: <input type="checkbox"/>	
		no <input checked="" type="checkbox"/>							
10-Notes									



Hydrologic Determination Field Data Sheet

Tennessee Division of Water Resources, Version 1.5 (Fillable Form)

Named Waterbody: UNT to Hatchie River		Date/Time: 5/23
Assessors/Affiliation: I. Maldonado / L. Niven		Project ID :
Site Name/Description: Bridge Repair Over Branch		136185.10
Site Location: STR-3 (LM 6.42)		
HUC (12 digit): 080102080806 - Hatchie River Outlet	Latitude: 35.646554	
Previous Rainfall (7-days) : 2.87"	Longitude: -89.786586	
Precipitation this Season vs. Normal : average NOAA / weather.gov Source of recent & seasonal precip. data :		
Watershed Size : 0.56 sq. mi.	County: Lauderdale	
Soil Type(s) / Geology : Ad - Adler silt loam, 0 to 2 percent slopes, frequently flooded	Source: Web Soil Survey	
Surrounding Land Use : Forested / Agricultural		
Degree of historical alteration to natural channel morphology & hydrology (select one & describe fully in Notes) : Slight		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	<input checked="" type="checkbox"/>	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	<input checked="" type="checkbox"/>	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	<input checked="" type="checkbox"/> N/A	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	<input checked="" type="checkbox"/>	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	<input checked="" type="checkbox"/>	Stream
6. Presence of fish (except <i>Gambusia</i>)	<input checked="" type="checkbox"/>	Stream
7. Presence of naturally occurring ground water table connection	<input checked="" type="checkbox"/>	Stream
8. Flowing water in channel and 7 days since last precip >0.1 " in local watershed	<input checked="" type="checkbox"/>	Stream
9. Evidence watercourse has been used as a supply of drinking water	<input checked="" type="checkbox"/>	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in
TDEC-DWR Guidance For Making Hydrologic Determinations, Version 1.5

Overall Hydrologic Determination = STREAM

Secondary Indicator Score (if applicable) = 30.50

Justification / Notes :

Main channel beneath north bridge flowing NW to SE ultimately forms confluence with the Hatchie River
slow runs up and down stream of bridge. large culvert (10') acts as a grade control. creates large pool at outlet of culvert.
good / average flow
frogs observed
good riparian buffer outside of project

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 13.25

A. Geomorphology (Subtotal = 13.25)	Absent	Weak	Moderate	Strong	
1. Continuous bed and bank	0	1	2	3	3
2. Sinuous channel	0	1	2	3	1
3. In-channel structure: riffle-pool sequences	0	1	2	3	1
4. Sorting of soil textures or other substrate	0	1	2	3	2
5. Active/relic floodplain	0	0.5	1	1.5	0.5
6. Depositional bars or benches	0	1	2	3	2
7. Braided channel	0	1	2	3	0
8. Recent alluvial deposits	0	0.5	1	1.5	1
9. Natural levees	0	1	2	3	0
10. Headcuts	0	1	2	3	0
11. Grade controls	0	0.5	1	1.5	0.75
12. Natural valley or drainageway	0	0.5	1	1.5	1
13. At least second order channel on existing USGS or NRCS map	0	1	2	3	1

B. Hydrology (Subtotal = 10.25

B. Hydrology (Subtotal = 10.25)	Absent	Weak	Moderate	Strong	
14. Subsurface flow/discharge into channel	0	1	2	3	3
15. Water in channel and >48 hours since sig. rain	0	1	2	3	3
16. Leaf litter in channel	1.5	1	0.5	0	1.5
17. Sediment on plants or on debris	0	0.5	1	1.5	0.75
18. Organic debris lines or piles (wrack lines)	0	0.5	1	1.5	0.5
19. Hydric soils in channel bed or sides of channel	No = 0		Yes = 1.5		1.5

C. Biology (Subtotal = 7.00

C. Biology (Subtotal = 7.00)	Absent	Weak	Moderate	Strong	
20. Fibrous roots in channel bed ¹	3	2	1	0	3
21. Rooted plants in the thalweg ¹	3	2	1	0	3
22. Crayfish in stream (exclude in floodplain)	0	1	2	3	0
23. Bivalves/mussels	0	1	2	3	0
24. Amphibians	0	0.5	1	1.5	1
25. Macrobenthos (record type & abundance)	0	1	2	3	0
26. Filamentous algae; periphyton	0	1	2	3	0
27. Iron oxidizing bacteria/fungus	0	0.5	1	1.5	0
28. Wetland plants in channel bed ²	0	0.5	1	1.5	0

¹ Focus is on the presence of terrestrial plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 30.50

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes :

raised turbidity

Ecology Field Data Sheet: **Water Resources**

Project: PN136185.10									
Biologist:		I. Maldonado / L. Niven		Affiliation:		Athena EE		Date: 5/23/2025	
1-Station: from plans									
2-Map label and name		LM 6.42 / WWC-2 / EPH-2							
3-Latitude/Longitude		35.644357, -89.790302							
4-Feature description:									
-channel identification		perennial stream <input type="checkbox"/>		intermittent stream <input type="checkbox"/>		ephemeral stream <input type="checkbox"/>		wwc <input checked="" type="checkbox"/>	
-HD score (if applicable)		12							
-OHWM indicators		bed & banks <input checked="" type="checkbox"/>		deposition <input type="checkbox"/>		presence of litter debris <input type="checkbox"/>		scour <input type="checkbox"/>	
		change in plant community <input type="checkbox"/>		destruction of terrestrial veg <input type="checkbox"/>		multiple observe flow events <input type="checkbox"/>		sediment sorting <input checked="" type="checkbox"/>	
		change in soil character <input type="checkbox"/>		leaf litter disturb or absent <input checked="" type="checkbox"/>		natural line impressed on bank <input checked="" type="checkbox"/>		shelving <input type="checkbox"/>	
-channel bottom width		4'				-top of bank width		6'	
-width and max depth at ordinary high water mark		2' and 1.5'							
-width at bankfull		6'							
-bank height		LDB - 4'				RDB - 4'			
-riffle/pool complex or other specialized habitat present?		N/A							
-dominant riparian species:		LDB: Agriculture							
------(LDB /RDB)-----		RDB: grasses							
-particle size distribution %		Silt/Sand: 85		Gravel: 10		Cobble: 5		Boulder:	
								Bedrock: 0	
5-photo numbers		23-30							
6-HUC -8 Code & Name		08010208 - Lower Hatchie							
7-Assessed		yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>					
8-ETW		yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>					
9-303 (d) List		yes <input type="checkbox"/>		siltation <input type="checkbox"/>		habitat: <input type="checkbox"/>		other: <input type="checkbox"/>	
		no <input checked="" type="checkbox"/>							
10-Notes									



Hydrologic Determination Field Data Sheet

Tennessee Division of Water Resources, Version 1.5 (Fillable Form)

Named Waterbody: UNT to Hatchie River		Date/Time: 5/23
Assessors/Affiliation: I. Maldonado / L. Niven		Project ID :
Site Name/Description: Bridge Repair Over Branch		136185.10
Site Location: WWC-2 / EPH-2 (LM 6.42)		
HUC (12 digit): 080102080806 - Hatchie River Outlet	Latitude: 35.644357	
Previous Rainfall (7-days) : 2.87"	Longitude: -89.790302	
Precipitation this Season vs. Normal : average NOAA / weather.gov Source of recent & seasonal precip. data :		
Watershed Size : <2.0 sq. mi.	County: Lauderdale	
Soil Type(s) / Geology : Ad - Adler silt loam, 0 to 2 percent slopes, frequently flooded	Source: Web Soil Survey	
Surrounding Land Use : Forested / Agricultural		
Degree of historical alteration to natural channel morphology & hydrology (select one & describe fully in Notes) : Moderate		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	<input checked="" type="checkbox"/>	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	<input checked="" type="checkbox"/>	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	<input checked="" type="checkbox"/> N/A	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	<input checked="" type="checkbox"/>	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	<input checked="" type="checkbox"/>	Stream
6. Presence of fish (except <i>Gambusia</i>)	<input checked="" type="checkbox"/>	Stream
7. Presence of naturally occurring ground water table connection	<input checked="" type="checkbox"/>	Stream
8. Flowing water in channel and 7 days since last precip >0.1" in local watershed	<input checked="" type="checkbox"/>	Stream
9. Evidence watercourse has been used as a supply of drinking water	<input checked="" type="checkbox"/>	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in
TDEC-DWR Guidance For Making Hydrologic Determinations, Version 1.5

Overall Hydrologic Determination = WET WEATHER CONVEYANCE

Secondary Indicator Score (if applicable) = 12.00

Justification / Notes :

Roadside ditch forms confluence with STR-3 down stream of culvert at bridge

little sorting

moist channel

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 7.00)	Absent	Weak	Moderate	Strong	
1. Continuous bed and bank	0	1	2	3	2
2. Sinuous channel	0	1	2	3	0
3. In-channel structure: riffle-pool sequences	0	1	2	3	1
4. Sorting of soil textures or other substrate	0	1	2	3	1.5
5. Active/relic floodplain	0	0.5	1	1.5	0
6. Depositional bars or benches	0	1	2	3	0.5
7. Braided channel	0	1	2	3	0
8. Recent alluvial deposits	0	0.5	1	1.5	1
9. Natural levees	0	1	2	3	0
10. Headcuts	0	1	2	3	0
11. Grade controls	0	0.5	1	1.5	0.75
12. Natural valley or drainageway	0	0.5	1	1.5	0.25
13. At least second order channel on existing USGS or NRCS map	0	1	2	3	0

B. Hydrology (Subtotal = 2.00)	Absent	Weak	Moderate	Strong	
14. Subsurface flow/discharge into channel	0	1	2	3	0
15. Water in channel and >48 hours since sig. rain	0	1	2	3	0
16. Leaf litter in channel	1.5	1	0.5	0	1
17. Sediment on plants or on debris	0	0.5	1	1.5	0.5
18. Organic debris lines or piles (wrack lines)	0	0.5	1	1.5	0.5
19. Hydric soils in channel bed or sides of channel	No = 0		Yes = 1.5		0

C. Biology (Subtotal = 3.00)	Absent	Weak	Moderate	Strong	
20. Fibrous roots in channel bed ¹	3	2	1	0	1.5
21. Rooted plants in the thalweg ¹	3	2	1	0	1.5
22. Crayfish in stream (exclude in floodplain)	0	1	2	3	0
23. Bivalves/mussels	0	1	2	3	0
24. Amphibians	0	0.5	1	1.5	0
25. Macroinvertebrates (record type & abundance)	0	1	2	3	0
26. Filamentous algae; periphyton	0	1	2	3	0
27. Iron oxidizing bacteria/fungus	0	0.5	1	1.5	0
28. Wetland plants in channel bed ²	0	0.5	1	1.5	0

¹ Focus is on the presence of terrestrial plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 12.00

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes :

some roots across channel acting as grade controls

becomes deeply channelized at end before confluence with STR-3

between road and ag field

silt/gravel substrate



Photo 1: WWC-1/EPH-1 Sourced from pond



Photo 2: WWC-1/EPH-1 End upgradient



Photo 3: WWC-1/EPH-1 Downgradient



Photo 4: WWC-1/EPH-1 Upgradient



Photo 5: WWC-1/EPH-1 Left top bank



Photo 6: WWC-1/EPH-1 Right top bank



Photo 7: STR-1 Downstream



Photo 8: STR-1 Upstream



Photo 9: STR-1 Left top bank



Photo 10: STR-1 Right top bank

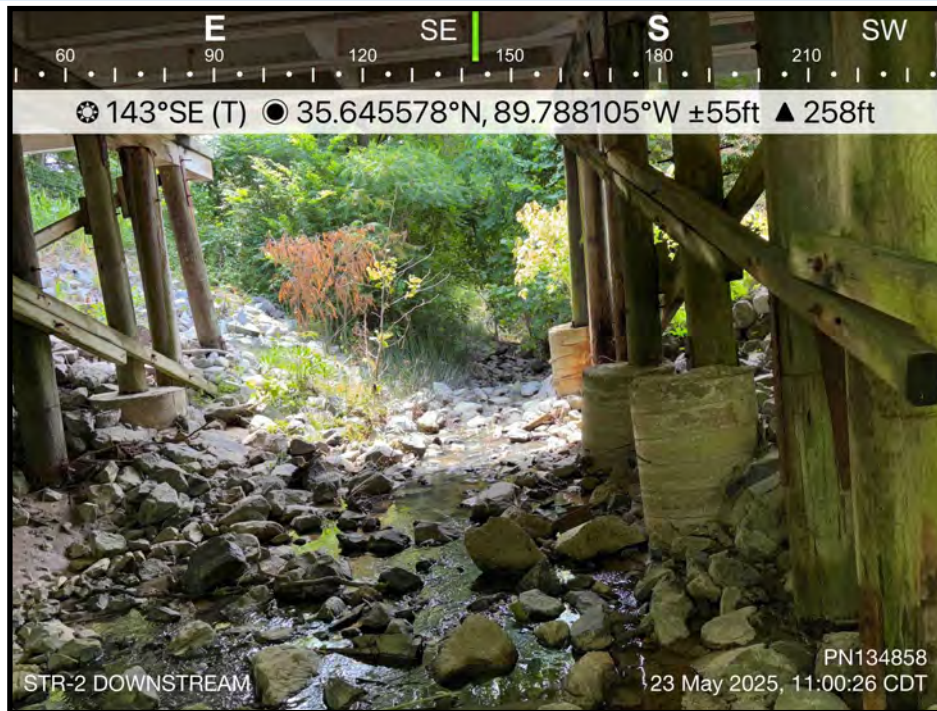


Photo 11: STR-2 Downstream



Photo 12: STR-2 Upstream



Photo 13: STR-2 Left top bank



Photo 14: STR-2 Right top bank



Photo 15: STR-3 Downstream



Photo 16: STR-3 Upstream

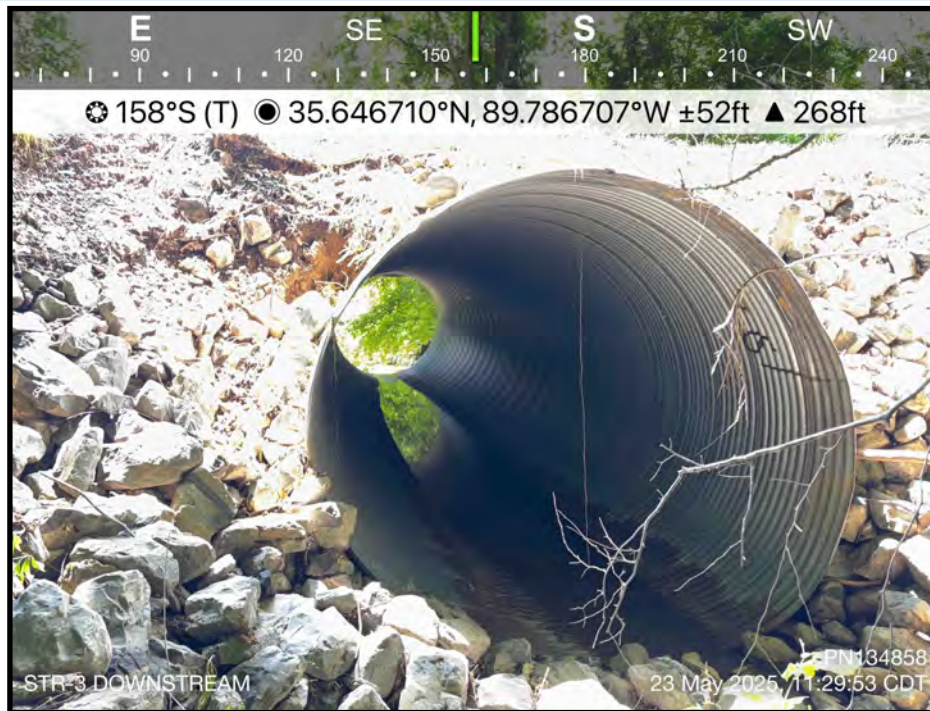


Photo 17: STR-3 downstream under TN-87; Culvert 10'

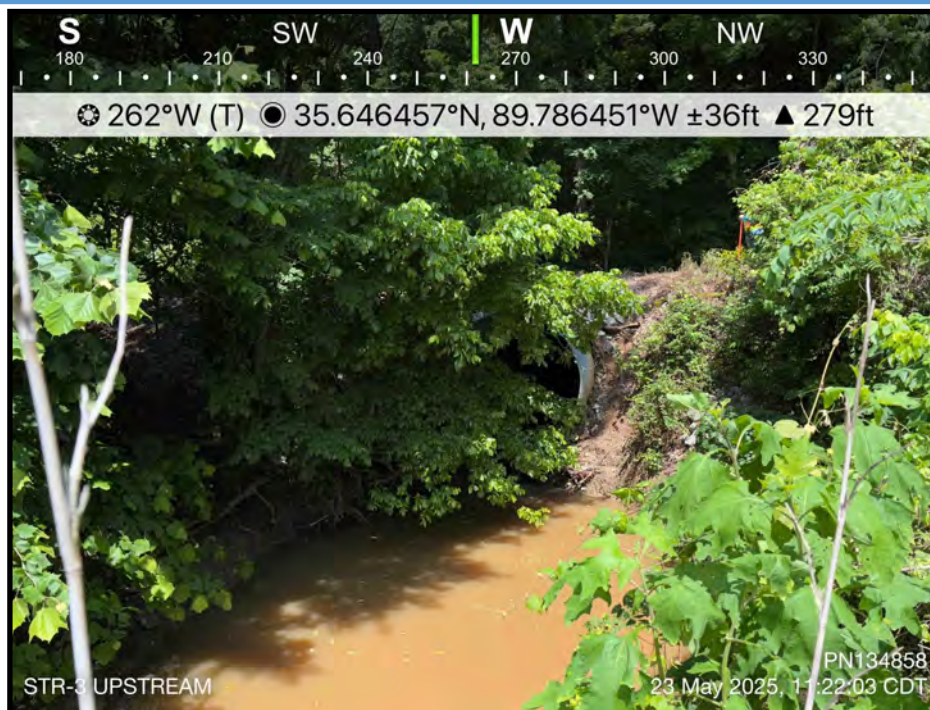


Photo 18: STR-3 Upstream



Photo 19: STR-3 Downstream



Photo 20: STR-3 Upstream



Photo 21: STR-3 Right top bank



Photo 22: STR-3 Left top bank (photo caption error)



Photo 23: WWC-2/EPH-2 Downgradient at STR-3 confluence



Photo 24: WWC-2/EPH-2 Upgradient at STR-3 confluence



Photo 25: WWC-2/EPH-2 Downgradient



Photo 26: WWC-2/EPH-2 Upgradient



Photo 27: WWC-2/EPH-2 Downgradient culvert 36"

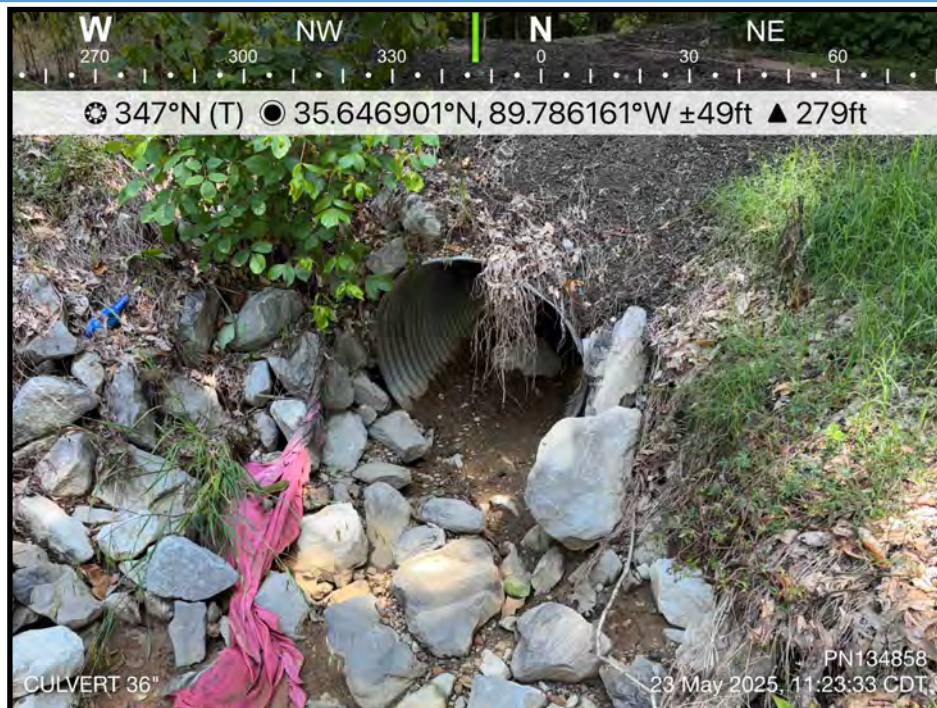


Photo 28: WWC-2/EPH-2 Upgradient culvert 36"



Photo 29: WWC-2/EPH-2 Downgradient near north end study area



Photo 30: WWC-2/EPH-2 Upgradient near north end study area



Outlook

Fw: IPaC delivered Official Species List for project: 134858.00, ETSA_Bridge over Branch, LM 6.42

From William Methvin <William.Methvin@tn.gov>**Date** Wed 6/18/2025 7:58 AM**To** Steve A. Walker <Steve.A.Walker@tn.gov>

Image preview

Will Methvin | TDOT Consultant

Environmental Division / Tech Studies Office – Ecology Unit

James K. Polk, 9th Floor

505 Deadrick Street

Nashville, TN 37243-0334

P. (931) 2442-5571

William.methvin@tn.gov

From: TDOT_USFWS <tdot_usfws@fws.gov>**Sent:** Wednesday, May 21, 2025 3:00 PM**To:** William Methvin <William.Methvin@tn.gov>**Cc:** Rita M. Thompson <Rita.M.Thompson@tn.gov>; Sikula, Nicole R <nicole_sikula@fws.gov>; Harris, Abigail N <abigail_harris@fws.gov>; DeVore, Christopher <Christopher_DeVore@fws.gov>**Subject:** [EXTERNAL] Re: IPaC delivered Official Species List for project: 134858.00, ETSA_Bridge over Branch, LM 6.42

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Will,

Thank you for your correspondence regarding the ETSA bridge replacement over Branch at LM 6.42 in Lauderdale County, Tennessee (PIN: 134858.00). You are requesting a list of federally threatened or endangered species that may be present in the project area.

A review of our database does not indicate that any federally listed or proposed species or designated critical habitat would be impacted by the project. Therefore, based on the best information available at this time, we believe that the requirements of the Endangered Species Act (ESA) are fulfilled for all species that currently receive protection under the ESA. Obligations under section 7 of the ESA should be reconsidered if (1) new information reveals impacts of the proposed action that may affect listed species or critical habitat in a manner

not previously considered, (2) the proposed action is subsequently modified to include activities which were not considered during this consultation, or (3) new species are listed or critical habitat designated that might be affected by the proposed action.

This email will serve as our official project response. Please let me know if we can offer further assistance.

Thank you,

Wesley Giddens
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Tennessee Ecological Services Field Office
446 Neal Street
Cookeville, TN 38501
Email: david_giddens@fws.gov
Cell Phone: (931)260-6938

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From: Administrator Email <ecosphere_support@ecosphere.fws.gov>

Sent: Tuesday, April 29, 2025 10:16 AM

To: Griffith, John <John_Griffith@fws.gov>; Tennessee ES, FWS <tennesseeES@fws.gov>; Sykes, Robbie <robbie_sykes@fws.gov>; TDOT_USFWS <tdot_usfws@fws.gov>; Alexander, Steven <steven_alexander@fws.gov>

Subject: IPaC delivered Official Species List for project: 134858.00, ETSA_Bridge over Branch, LM 6.42

To: IPaC point(s) of contact for Tennessee Ecological Services Field Office

Project Location: Lauderdale County, Tennessee

IPaC has delivered an official Section 7 species list on behalf of your office. For your convenience, IPaC has created an ETK project ([2025-0089602](#)) with a new associated 'Species List Provided' event. A PDF file of the species list document is attached to the event and contact information for the project can be found on the last page of the PDF.

IPaC has automatically set the Project status to "Closed". If you need to do any additional work in this project (e.g., add staff, add events, change lead office, etc.), you must first change the Project status to "active" so that you can edit the project. You can access the project via the link, above.

Lead FWS Office:

The Tennessee Ecological Services Field Office is currently designated as the lead office for Section 7 on this project. The following additional offices have jurisdiction and have been notified: None. If another office is the lead office on this project, please access the project (via the link above) and update it. IPaC will not reset the Lead Office once it has been updated by a biologist.

*Projects created in ETK by IPaC have not been assigned to an FWS staff member. To identify the staff assigned to this project, please access the project (via the link above) and add their name(s).



**TENNESSEE WILDLIFE
RESOURCES AGENCY**
WWW.TNWILDLIFE.ORG
(615) 781-6500

**STATE OF TENNESSEE
ELLINGTON AGRICULTURAL CENTER**
5107 EDMONDSON PIKE
NASHVILLE, TN 37211

May 21, 2025

Re: Lauderdale County Bridge replacement SR-87 LM 6.42 PIN 134858.00

Mr. William Methvin,

The Tennessee Wildlife Resources Agency has reviewed the information that you provided regarding the subject project in Lauderdale County, Tennessee. Your letter to us requested comments by our agency regarding potential impacts to endangered species, wetlands, and other areas of concern as we may think pertinent due to the proposed project.

This project involves the proposed bridge replacement on SR-87 at LM 11.75 in Lauderdale County. The initial information provided by TDOT and the data I have reviewed and compared to the proposed project, conclude that the project is not anticipated to adversely affect any federally or state-listed Endangered, Threatened, or Deemed-In-Need-of-Management species. Based upon these understandings, TWRA does not anticipate adverse impacts upon listed species under our authority due to the project and we have no concerns or objection to the proposed project. Re-coordination will be required if new species records are found or if the proposed project plans incorporate critical habitat for listed species of concern.

Thank you for the opportunity to review and comment on this proposed project. If you have further questions regarding this matter; please contact me at (731) 431-0012.

Sincerely,

Casey Parker
West TN Transportation Biologist

