GROW
ENVIRONMENTAL SOLUTIONS

1406 Wilson Avenue
Tullahoma, TN 37388
(931) 273-4681

December 1, 2021

Tennessee Department of Environment and Conservation
Division of Water Resources
Nashville Environmental Field Office
711 R.S. Gass Boulevard
Nashville, TN 37216

RE: Hydrologic Determination Report – Beckwith Point, Mt. Juliet, Wilson County

The attached hydrologic determination (Attachment 1) was conducted on the approximate 75-acre site to identify water resources. The site investigation identified the following wet weather conveyance (WWC), stream and wetland features:

WWC 1 – Start: 36.175302, -86.473899, End: 36.175441, -86.474280
WWC 2 – Start: 36.174943, -86.473727, End: 36.174726, -86.474070
WWC 3 – Start: 36.174237, -86.472515, End: 36.174809, -86.472450
WWC 4 – Start: 36.175666, -86.471367, End: 36.176017, -86.471597
WWC 5 – Start: 36.175545, -86.471721, End: 36.175727, -86.471662
WWC 6 – Start: 36.176203, -86.468288, End: 36.176476, -86.468309
WWC 7 – Start: 36.176090, -86.467628, End: 36.176532, -86.467907
WWC 8 – Start: 36.176536, -86.466566, End: 36.176697, -86.466566
WWC 9 – Start: 36.176389, -86.465557, End: 36.176099, -86.463942
WWC 10 – Start: 36.176103, -86.464608, End: 36.175995, -86.464050
WWC 11 – Start: 36.176077, -86.464892, End: 36.175839, -86.464050
WWC 12 – Start: 36.174909, -86.467699, End: 36.174785, -86.467138
WWC 13 – Start: 36.175181, -86.467559, End: 36.174945, -86.467592
WWC 14 – Start: 36.174435, -86.467480, End: 36.174667, -86.467444
WWC 15 – Start: 36.173564, -86.466487, End: 36.174229, -86.466238
WWC 16 – Start: 36.173513, -86.466130, End: 36.173673, -86.466245
WWC 17 – Start: 36.173302, -86.465244, End: 36.173467, -86.464407
WWC 18 – Start: 36.172617, -86.465517, End: 36.172344, -86.465326
Stream 1 – Start: 36.174527, -86.471144, End: 36.175799, -86.472324
Stream 2 – Start: 36.175841, -86.470308, End: 36.175846, -86.470021
Stream 3 – Start: 36.176005, -86.469817, End: 36.176232, -86.470002
Stream 4 – Start: 36.174945, -86.467592, End: 36.174440, -86.464950
Stream 5 – Start: 36.173693, -86.463938, End: 36.175919, -86.464047
Stream 6 – Start: 36.174888, -86.465309, End: 36.174793, -86.464064
Stream 7 – Start: 36.171159, -86.465742, End: 36.172426, -86.463865
Stream 8 – Start: 36.171042, -86.465074, End: 36.171399, -86.465471
Stream 9 – Start: 36.174298, -86.467378, End: 36.174522, -86.467339
Wetland 1 – 36.175721, -86.470544
Wetland 2 – 36.175755, -86.469664

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1406 Wilson Avenue
Tullahoma, TN 37388
(931) 273-4681

The property consists of 1 parcel owned by VOMJ Investment Partners (Parcel ID 095 078 05808 000 2022).

Please contact me via my cell phone or email if you have any questions. All submitted information is true, accurate and complete.

Sincerely,

Christopher Grow
TNQHP #1128-TN15

Attachments:

1. Hydrologic Determination Report
2. Property Access Permission Letter

HYDROLOGIC DETERMINATION REPORT

Beckwith Point
Wilson County, Tennessee

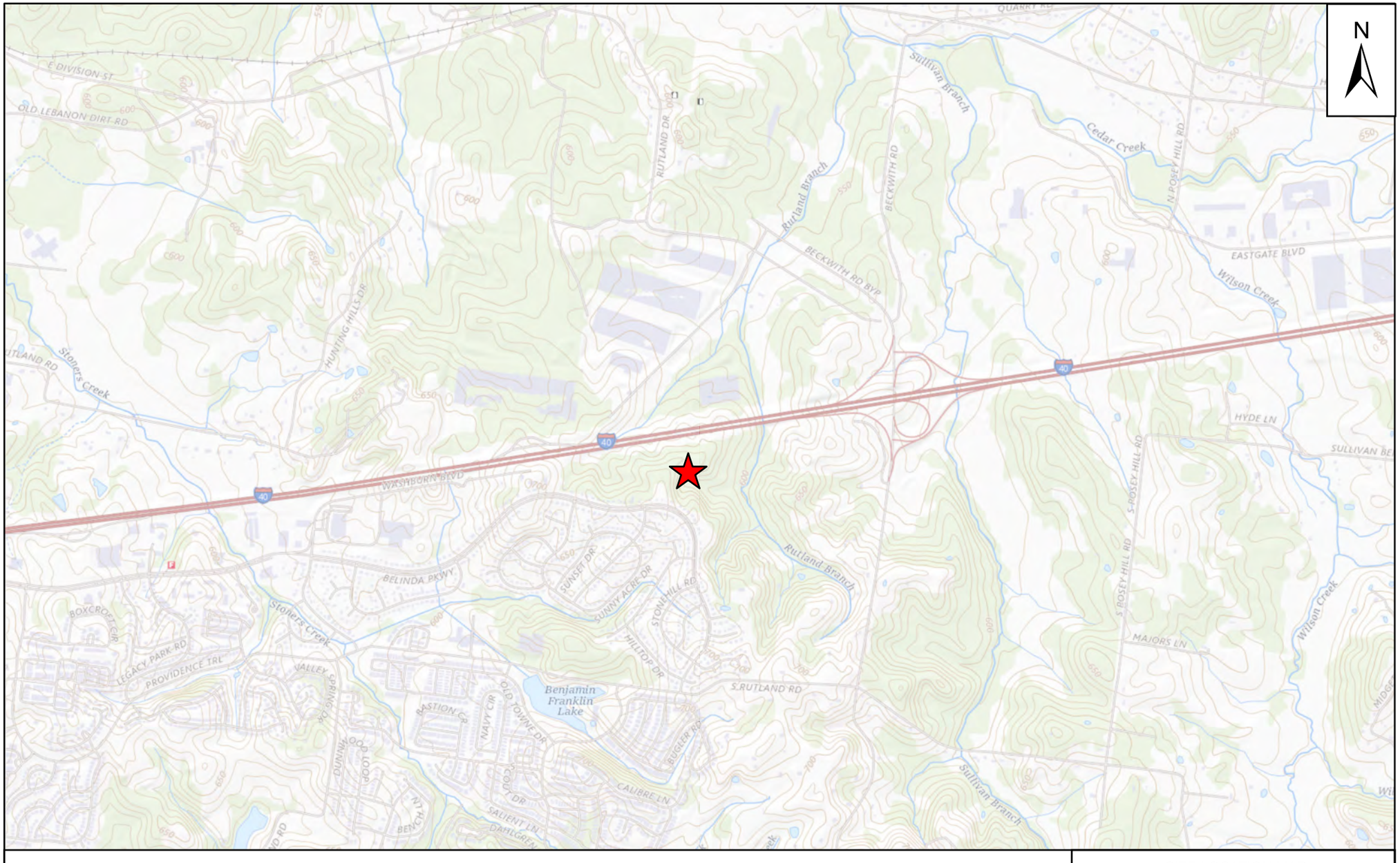
Prepared by:

Anthony Grow
TNQHP #1128-TN15

September 30, 2021

Contents

Site Maps



LEGEND

SITE LOCATION

0 2,000 4,000

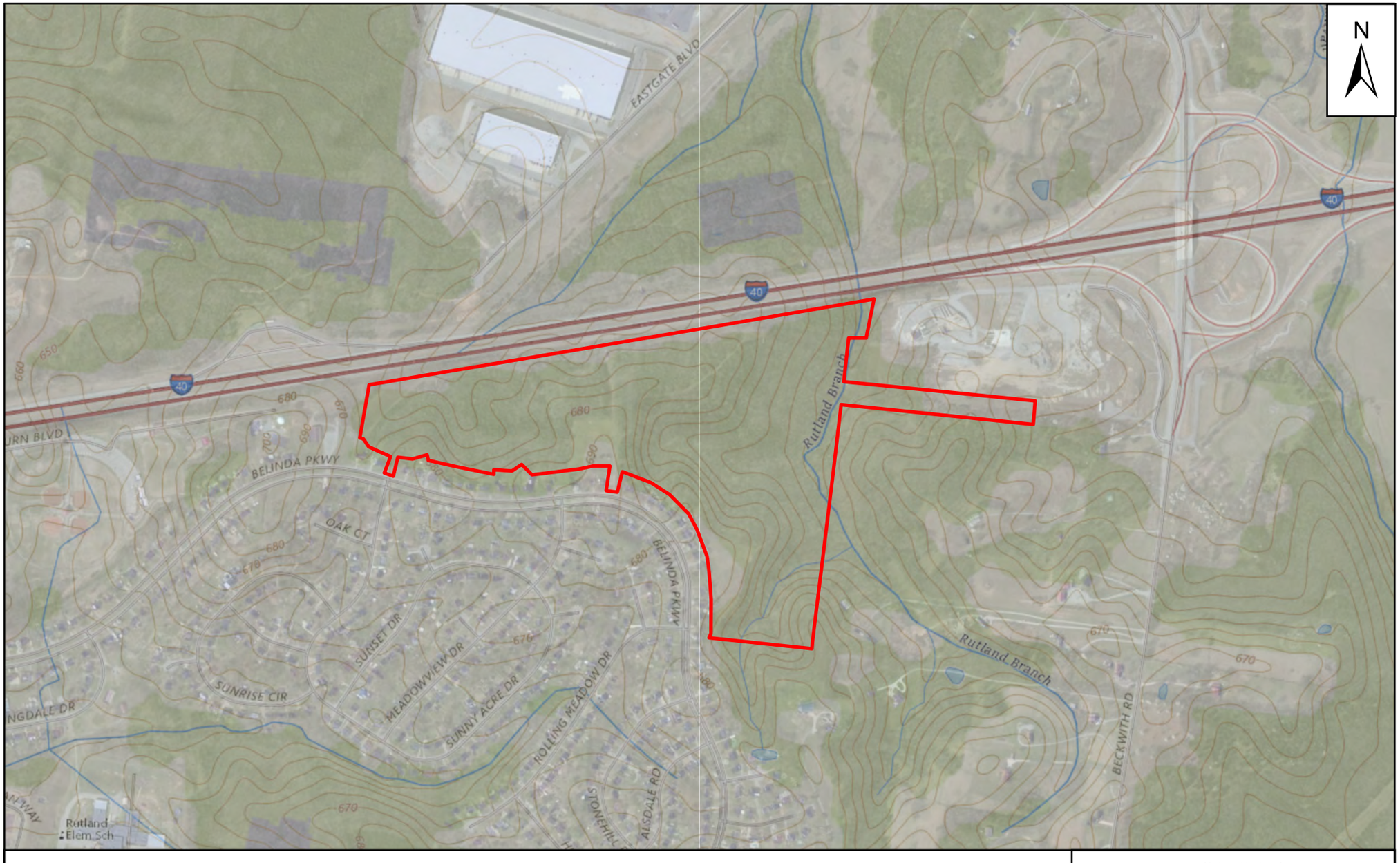
SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

SITE LOCATION MAP
BECKWITH POINT
WILSON COUNTY, TENNESSEE

GROW ENVIRONMENTAL SOLUTIONS

Data Source: USGSTopo: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National



LEGEND

PROJECT BOUNDARY

0 800 1,600

SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

VICINITY MAP
BECKWITH POINT
WILSON COUNTY, TENNESSEE

GROW ENVIRONMENTAL SOLUTIONS

Data Source: World Imagery (Clarity): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the

LEGEND

- WET WEATHER CONVEYANCE (WWC)
- STREAM
- WETLAND
- PROJECT BOUNDARY

0 400 800

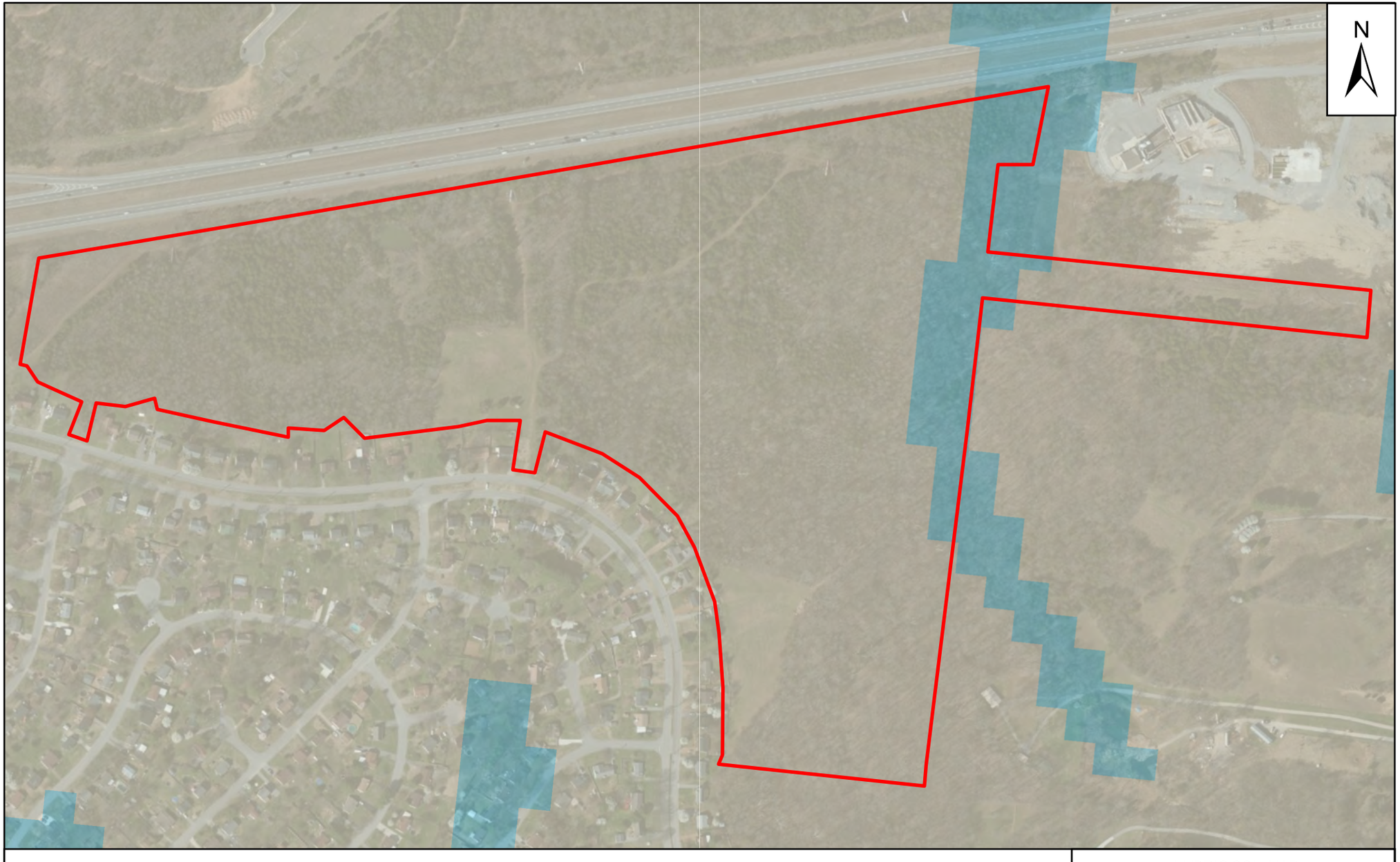
SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

HYDROLOGIC DETERMINATION MAP
BECKWITH POINT
WILSON COUNTY, TENNESSEE

GROW ENVIRONMENTAL SOLUTIONS

Data Source: World Imagery (Clarity): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the



LEGEND

- PROJECT BOUNDARY
- Not Hydric
- Partially Hydric (1 - 25%)
- Partially Hydric (26 - 50%)
- Partially Hydric (51 - 75%)
- Partially Hydric (76 - 95%)
- All Hydric

0 400 800

SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

HYDRIC SOIL MAP
BECKWITH POINT
WILSON COUNTY, TENNESSEE

GROW
ENVIRONMENTAL SOLUTIONS

Data Source: USA SSURGO - Soil Hydric Class: Source: USDA NRCS, Esri

LEGEND

- PROJECT BOUNDARY
- FRESHWATER FORESTED/SHRUB WETLAND
- FRESHWATER POND
- RIVERINE

0 400 800

SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

NATIONAL WETLAND INVENTORY MAP
BECKWITH POINT
WILSON COUNTY, TENNESSEE

GROW
ENVIRONMENTAL SOLUTIONS

Data Source: World Imagery (Clarity): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the

LEGEND

- PROJECT BOUNDARY
- 1% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee

0 400 800

SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

FLOOD HAZARD MAP
BECKWITH POINT
WILSON COUNTY, TENNESSEE

GROW
ENVIRONMENTAL SOLUTIONS

Data Source: World Imagery (Clarity): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the

Datasheets
and
Photos

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-1

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.175302, -86.473899 END: 36.175441, -86.474280
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 2 ACRES	Photos: (Y) or N (circle) Number : 1-2	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight (Absent)		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-1)

Secondary Indicator Score (if applicable) =

Justification / Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-2

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.174943, -86.473727 END: 36.174726, -86.474070
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 2 ACRES	Photos: (Y) or N (circle) Number : 3-4	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM	Source: USDA	
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-2)

Secondary Indicator Score (if applicable) = 6.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-2

A. **Geomorphology** (Subtotal = 2.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	(1)	2	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	(0)	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	(0)	0.5	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	(0)	1	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	(0.5)	1	1.5
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

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

C. **Biology** (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	2	(1)	0
21. Rooted plants in channel [1]	3	2	(1)	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 6.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-3

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.174237, -86.472515
Previous Rainfall (7-days) : 0.12 INCH		END: 36.174809, -86.472450
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data : CoCoRaH TN-WN-		
Watershed Size : 3 ACRES	Photos: (Y) or N (circle) Number : 5-6	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-3)

Secondary Indicator Score (if applicable) = 11.5

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-3

A. Geomorphology (Subtotal = 5.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	(0)	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	(0)	0.5	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	(1)	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. Hydrology (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	0	(0.5)	1	1.5
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. Biology (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 11.5

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-4

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.175666, -86.471367 END: 36.176017, -86.471597
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 3 ACRES	Photos: (Y) or N (circle) Number : 7-8	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-4)

Secondary Indicator Score (if applicable) = 12.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-4

A. **Geomorphology** (Subtotal = 6.0)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	(1)	2	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	(0)	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	0	(1)	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	(0.5)	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	(1)	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. **Hydrology** (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	0	(0.5)	1	1.5
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. **Biology** (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 12.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-5

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.175545, -86.471721 END: 36.175727, -86.471662
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 4 ACRES	Photos: (Y) or N (circle) Number : 9-10	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-5)

Secondary Indicator Score (if applicable) = 10.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-5

A. **Geomorphology** (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	2	3
2. Sinuous channel	0	1	2	3
3. In-channel structure: riffle-pool sequences	0	1	2	3
4. Sorting of soil textures or other substrate	0	1	2	3
5. Active/relic floodplain	0	1	2	3
6. Depositional bars or benches	0	1	2	3
7. Braided channel	0	1	2	3
8. Recent alluvial deposits	0	0.5	1	1.5
9. Natural levees	0	1	2	3
10. Headcuts	0	1	2	3
11. Grade controls	0	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	1.5
13. At least second order channel on existing USGS or NRCS map	No = 0		Yes = 3	

B. **Hydrology** (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	0	1	2	3
15. Water in channel and >48 hours since sig. rain	0	1	2	3
16. Leaf litter in channel (January – September)	1.5	1	0.5	0
17. Sediment on plants or on debris	0	0.5	1	1.5
18. Organic debris lines or piles (wrack lines)	0	0.5	1	1.5
19. Hydric soils in stream bed or sides of channel	No = 0		Yes = 1.5	

C. **Biology** (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	2	1	0
21. Rooted plants in channel [1]	3	2	1	0
22. Crayfish in stream (exclude in floodplain)	0	0.5	1	1.5
23. Bivalves/mussels	0	1	2	3
24. Amphibians	0	0.5	1	1.5
25. Macrobenthos (record type & abundance)	0	1	2	3
26. Filamentous algae; periphyton	0	1	2	3
27. Iron oxidizing bacteria/fungus	0	0.5	1	1.5
28.Wetland plants in channel [2]	0	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 10.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-6

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.176203, -86.468288
Previous Rainfall (7-days) : 0.12 INCH		END: 36.176476, -86.468309
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 2 ACRES	Photos: Y or N (circle) Number : 11-12	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-6)

Secondary Indicator Score (if applicable) = 12.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-6

A. Geomorphology (Subtotal = 6.0)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	(0)	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	(0.5)	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	(1)	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. Hydrology (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	0	(0.5)	1	1.5
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. Biology (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 12.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-7

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.176090, -86.467628
Previous Rainfall (7-days) : 0.12 INCH		END: 36.176532, -86.467907
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 5 ACRES	Photos: (Y) or N (circle) Number : 13-14	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-7)

Secondary Indicator Score (if applicable) = 12.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-7

A. Geomorphology (Subtotal = 6.0)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	0	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	(0.5)	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	(0)	1	2	3
11. Grade controls	0	(0.5)	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. Hydrology (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	0	(0.5)	1	1.5
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. Biology (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 12.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-8

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.176536, -86.466566
Previous Rainfall (7-days) : 0.12 INCH		END: 36.176697, -86.466566
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 5 ACRES	Photos: (Y) or N (circle) Number : 15-16	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-8)

Secondary Indicator Score (if applicable) = 11.5

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-8

A. **Geomorphology** (Subtotal = 5.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	(0)	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	(0.5)	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	(1)	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. **Hydrology** (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	0	(0.5)	1	1.5
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. **Biology** (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 11.5

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-9

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.176389, -86.465557 END: 36.176099, -86.463942
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet average dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 6 ACRES	Photos: (Y) or N (circle) Number : 17-18	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight (Absent)		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-9)

Secondary Indicator Score (if applicable) = 14.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-9

A. **Geomorphology** (Subtotal = 8.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	0	1	2	3
4. Sorting of soil textures or other substrate	0	(1)	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	0	(1)	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	(0.5)	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	(1)	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

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

C. **Biology** (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 14.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

WWC-10

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.176103, -86.464608 END: 36.175995, -86.464050
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : CoCoRaH # TN-WN-		
Watershed Size : 10 ACRES	Photos: (Y) or N (circle) Number : 19-28	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight (Absent)		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-10)

Secondary Indicator Score (if applicable) = 13.5

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-10

A. **Geomorphology** (Subtotal = 8.0)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	0	(1)	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	0	(1)	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	(0)	0.5	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	(2)	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

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

C. **Biology** (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 13.5

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-11

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.176077, -86.464892 END: 36.175839, -86.464050
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : CoCoRaHs		
Watershed Size : 3 ACRES	Photos: (Y) or N (circle) Number : 21-22	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight (Absent)		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-11)

Secondary Indicator Score (if applicable) = 13.5

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-11

A. **Geomorphology** (Subtotal = 6.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	(1)	2	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	0	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	0.5	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	(2)	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. **Hydrology** (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	0	(0.5)	1	1.5
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. **Biology** (Subtotal = 5.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	(3)	2	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 13.5

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-12

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.174909, -86.467699 END: 36.174785, -86.467138
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 6 ACRES	Photos: (Y) or N (circle) Number : 23-24	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight (Absent)		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-12)

Secondary Indicator Score (if applicable) = 14.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-12

A. Geomorphology (Subtotal = 8.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	0	(1)	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	0.5	(1)	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	(2)	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

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

C. Biology (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 14.0

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

Notes :

Hydrologic Determination Field Data Sheet

13

Tennessee Division of Water Pollution Control, Version 1.4 WWC-14

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.175181, -86.467559 END: 36.174945, -86.467572
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 5 ACRES	Photos: (Y) or N (circle) Number : ~~27-28~~ 25-26	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-13)

Secondary Indicator Score (if applicable) = 12.5

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-13

A. **Geomorphology** (Subtotal = 7.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	0	(1)	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	0.5	(1)	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	(1)	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. **Hydrology** (Subtotal = 1.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	(1.5)	1	0.5	0
17. Sediment on plants or on debris	0	(0.5)	1	1.5
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5
19. Hydric soils in stream bed or sides of channel	No = 0		Yes = 1.5	

C. **Biology** (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 12.5

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-14

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.174435, -86.467880 END: 36.174667, -86.467444
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 5 ACRES	Photos: (Y) or N (circle) Number : 27-28	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-14)

Secondary Indicator Score (if applicable) = 13.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-14

A. Geomorphology (Subtotal = 6.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	0	(1)	2	3
4. Sorting of soil textures or other substrate	(0)	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	0	(1)	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	(0)	0.5	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	(0)	1	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

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

C. Biology (Subtotal = 5.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	(3)	2	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 13.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-15

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.173564, -86.466487 END: 36.174229, -86.466238
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 7 ACRES	Photos: (Y) or N (circle) Number : 29-30	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight (Absent)		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-15)

Secondary Indicator Score (if applicable) = 14.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-15

A. Geomorphology (Subtotal = 8.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	0	(1)	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	0.5	(1)	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	(2)	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

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

C. Biology (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 14.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

WWC-16

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START : 36.173513, -86.466130 END : 36.173673, -86.466245
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 0.5 ACRE	Photos: (Y) or N (circle) Number : 31-32	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-16)

Secondary Indicator Score (if applicable) = 12.5

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-16

A. Geomorphology (Subtotal = 6.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	0	(1)	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	(0.5)	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	(1)	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	(1)	1.5
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. Hydrology (Subtotal = 1.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	(0)	0.5	1	1.5
18. Organic debris lines or piles (wrack lines)	(0)	0.5	1	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. Biology (Subtotal = 5.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	(3)	2	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 12.5

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-17

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.173302, -86.465249 END: 36.173467, -86.464407
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 8 ACRES	Photos: (Y) or N (circle) Number : 33-34	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight (Absent)		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-17)

Secondary Indicator Score (if applicable) = 14.5

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-17

A. Geomorphology (Subtotal = 8.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	0	(1)	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	0.5	(1)	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	(2)	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. Hydrology (Subtotal = 2.0)	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	0	(0.5)	1	1.5
18. Organic debris lines or piles (wrack lines)	0	(0.5)	1	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. Biology (Subtotal = 4.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 14.5

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 WWC-18

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.172617, -86.465517 END: 36.172344, -86.465326
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 3 ACRES	Photos: (Y) or N (circle) Number : 35-36	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = WET WEATHER CONVEYANCE (WWC-18)

Secondary Indicator Score (if applicable) = 15.0

Justification / Notes :

Secondary Field Indicator Evaluation

WWC-18

A. Geomorphology (Subtotal = 8.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	(0)	1	2	3
4. Sorting of soil textures or other substrate	(0)	1	2	3
5. Active/relic floodplain	(0)	1	2	3
6. Depositional bars or benches	0	(1)	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	0.5	(1)	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	(2)	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

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

C. Biology (Subtotal = 5.0)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel [1]	3	(2)	1	0
21. Rooted plants in channel [1]	(3)	2	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	0.5	1	1.5
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macrobenthos (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28.Wetland plants in channel [2]	(0)	0.5	1	2

[1] Focus is on the presence of upland plants. [2] Focus is on the presence of aquatic or wetland plants.

Total Points = 15.0

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

Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 STREAM 1

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.174527, -86.471184 END: 36.175799, -86.472324
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 11 ACRES	Photos: (Y) or N (circle) Number : 37-38	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate Slight Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = STREAM (STR-1)

Secondary Indicator Score (if applicable) =

Justification / Notes : SEEP AT HEAD OF STREAM

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 STR-2

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.175841, -86.470308 END: 36.175846, -86.470021
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 1.0 ACRE	Photos: Y or N (circle) Number : 39-40	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = STREAM (STR-2)

Secondary Indicator Score (if applicable) =

Justification / Notes : WETLAND POND DISCHARGES TO STREAM #2.

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 STR-3

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.176005, -86.469847 END: 36.176232, -86.470002
Previous Rainfall (7-days) : ~~0.2~~ 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data :		
Watershed Size : 1.0 ACRE	Photos: (Y) or N (circle) Number : 41-42	
Soil Type(s) / Geology : HAMPSHIRE ? SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = STREAM (STR-3)

Secondary Indicator Score (if applicable) =

Justification / Notes : WETLAND 2 CONTAINS SEEPS WHICH FEED STREAM #3

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 STR-4

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.174945, -86.467592 END: 36.174440, -86.464950
Previous Rainfall (7-days) : 0.12 INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 12 ACRES	Photos: (Y) or N (circle) Number : 43-44	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = STREAM (STR-4)

Secondary Indicator Score (if applicable) =

Justification / Notes :

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 STR-5

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.173693, -86.463938 END: 36.
Previous Rainfall (7-days) : 0.12 ACRES		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 22 ACRES	Photos: (Y) or N (circle) Number : 45-46	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = STREAM (STR-5)

Secondary Indicator Score (if applicable) =

Justification / Notes : STREAM #5 IS A NAMED STREAM (RUTLAND BRANCH)

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 STR-6

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.174888, -86.465309 END: 36.174793, -86.464064
Previous Rainfall (7-days) : 0.12 ACRES		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 3 ACRES	Photos: (Y) or N (circle) Number : 47-48	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = STREAM (STR-6)

Secondary Indicator Score (if applicable) =

Justification / Notes : SEEP AT HEAD OF STREAM

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 STR-7

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.171159, -86.465742 END: 36.172426, -86.463865
Previous Rainfall (7-days) : 0.12 ACRES		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 17 ACRES	Photos: (Y) or N (circle) Number : 49-50	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = STREAM (STR-7)

Secondary Indicator Score (if applicable) =

Justification / Notes : SEEP AT HEAD OF STREAM

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4 STR-8

County: WILSON	Named Waterbody:	Date/Time: 9-30-21
Assessors/Affiliation: ANTHONY GROW / TNQHP #1128-TN15		Project ID :
Site Name/Description: BECKWITH POINTE		
Site Location: BECKWITH PARKWAY, MT. JULIET, TN		
USGS quad: MARTHA	HUC (12 digit):	Lat/Long: START: 36.171042, -86.465074 END: 36.171399, -86.465471
Previous Rainfall (7-days) : 0.12 A INCH		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : COCORAH		
Watershed Size : 2 ACRES	Photos: (Y) or N (circle) Number : 51-52	
Soil Type(s) / Geology : HAMPSHIRE SILT LOAM		Source: USDA
Surrounding Land Use : RESIDENTIAL - INTERSTATE		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = STREAM (STR-8)

Secondary Indicator Score (if applicable) =

Justification / Notes : SEEP AT ~~END~~ HEAD OF STREAM

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

County: Wilson	Named Waterbody:	Date/Time: 9/30/21
Assessors/Affiliation: Anthony Grow, TNQHP # 1128-TN15		Project ID : Stream 9
Site Name/Description: Beckwith Pointe		
Site Location: Beckwith Parkway		
USGS quad: Martha	HUC (12 digit):	Lat/Long: Start: 36.174298, -86.467378 End: 36.174522, -86.467339
Previous Rainfall (7-days) : 0.12 inch		
Precipitation this Season vs. Normal : very wet wet (average) dry drought unknown Source of recent & seasonal precip data : CoCoRah		
Watershed Size : 3 acres	Photos: (Y)or N (circle) Number : 51-52	
Soil Type(s) / Geology : Hampshire silt loam	Source: USDA	
Surrounding Land Use : Residential-commercial		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate (Slight) Absent		

Primary Field Indicators Observed

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

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

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-WPC Guidance For Making Hydrologic Determinations, Version 1.4*

Overall Hydrologic Determination = Stream (STR-9)

Secondary Indicator Score (if applicable) =

Justification / Notes :

Rain Data

Normal Weather Conditions Calculations Table

Beckwith Point
Station #TN-WN-90

	Month	Standard Deviation	Long-term rainfall records: Minus One Std. Dev. (DRY)	Long-term rainfall records: Normal (Mean inches)	Long-term rainfall records: Plus One Std. Dev. (WET)	Actual Rainfall	Condition (elevated, low, average)	Condition value	Month weight value	Product of previous two columns
1st prior month*	Aug. 2021	1.62	1.45	3.07	4.69	7.52	Elevated	3	3	9
2nd prior month*	July 2021	1.78	1.81	3.59	5.37	3.44	Average	2	2	4
3rd prior month*	June 2021	2.44	1.38	3.82	6.26	4.07	Average	2	1	2
									Sum =	15

Note: The period has been abnormally wet.

If sum is:	
6-9	then prior period has been abnormally dry
10-14	then prior period has been normal (average)
15-18	Then prior period has been abnormally wet

Condition value:	
Low =	1
Average =	2
Elevated =	3

View Data : Station Report Summary US Units

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- Search Hail Reports
- Station Hail Reports
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- Water Year Summary
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- CoCoRaHS Blog
- Web Groups
- State Newsletters
- Master Gardener Guide
- State Climate Series
- March Madness

Station Report Summary

Station 1 : TN-WN-90 Example: CO-LR-273

Station 2 :

Station 3 :

Start Date: 9/23/2021 **End Date:** 9/30/2021

Get Summary

Stations:

TN-WN-90
Mount Juliet 4.0 SE
Lat: 36.1598701477051
Lon: -86.4797973632813

* indicates Multi-Day Accumulation Report

Station **TN-WN-90**

Date	Precip in.
09/23/2021	0.12
09/24/2021	0.00
09/25/2021	0.00
09/26/2021	T
09/27/2021	0.00
09/28/2021	0.00
09/29/2021	0.00
09/30/2021	0.00
Totals :	0.12 in.

View Data : Station Report Summary US Units

View Data

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Station Report Summary

Station 1 : TN-WN-90 Example: CO-LR-273

Station 2 :

Station 3 :

Start Date: 8/1/2021 **End Date:** 8/31/2021

Get Summary

Stations:

TN-WN-90
Mount Juliet 4.0 SE
Lat: 36.1598701477051
Lon: -86.4797973632813

* indicates Multi-Day Accumulation Report

Station **TN-WN-90**

Date	Precip in.
08/01/2021	2.60
08/02/2021	0.00
08/03/2021	0.00
08/04/2021	0.00
08/05/2021	0.00
08/06/2021	0.00
08/07/2021	0.02
08/08/2021	0.00
08/09/2021	0.27
08/10/2021	0.00
08/11/2021	0.00
08/12/2021	0.00
08/13/2021	0.00
08/14/2021	0.11
08/15/2021	--
08/16/2021	0.89
08/17/2021	0.00
08/18/2021	0.00
08/19/2021	0.94
08/20/2021	0.06
08/21/2021	0.32
08/22/2021	0.26
08/23/2021	0.00
08/24/2021	0.00
08/25/2021	0.00
08/26/2021	0.00
08/27/2021	0.15
08/28/2021	0.00
08/29/2021	0.02
08/30/2021	0.05
08/31/2021	1.83
Totals :	7.52 in.

View Data : Station Report Summary US Units

View Data

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Station Report Summary

Station 1 : TN-WN-90 Example: CO-LR-273

Station 2 :

Station 3 :

Start Date: 7/1/2021 **End Date:** 7/31/2021

Get Summary

Stations:

TN-WN-90
Mount Juliet 4.0 SE
Lat: 36.1598701477051
Lon: -86.4797973632813

* indicates Multi-Day Accumulation Report

Station **TN-WN-90**

Date	Precip in.
07/01/2021	T
07/02/2021	0.29
07/03/2021	0.00
07/04/2021	--
07/05/2021	0.00
07/06/2021	0.00
07/07/2021	0.00
07/08/2021	0.18
07/09/2021	0.29
07/10/2021	0.06
07/11/2021	0.07
07/12/2021	0.74
07/13/2021	0.06
07/14/2021	0.01
07/15/2021	0.00
07/16/2021	0.00
07/17/2021	0.00
07/18/2021	0.17
07/19/2021	1.20
07/20/2021	0.26
07/21/2021	0.00
07/22/2021	0.00
07/23/2021	0.00
07/24/2021	0.00
07/25/2021	0.00
07/26/2021	0.11
07/27/2021	T
07/28/2021	0.00
07/29/2021	0.00
07/30/2021	0.00
07/31/2021	0.00
Totals :	3.44 in.

View Data : Station Report Summary US Units

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Station Report Summary

Station 1 : TN-WN-90 Example: CO-LR-273

Station 2 :

Station 3 :

Start Date: 6/1/2021 **End Date:** 6/30/2021

Get Summary

Stations:

TN-WN-90
Mount Juliet 4.0 SE
Lat: 36.1598701477051
Lon: -86.4797973632813

* indicates Multi-Day Accumulation Report

Station **TN-WN-90**

Date	Precip in.
06/01/2021	0.00
06/02/2021	0.79
06/03/2021	0.72
06/04/2021	0.02
06/05/2021	0.00
06/06/2021	T
06/07/2021	0.04
06/08/2021	0.00
06/09/2021	0.56
06/10/2021	0.49
06/11/2021	0.96
06/12/2021	0.39
06/13/2021	T
06/14/2021	0.00
06/15/2021	0.00
06/16/2021	0.00
06/17/2021	0.00
06/18/2021	0.00
06/19/2021	0.00
06/20/2021	0.00
06/21/2021	0.00
06/22/2021	0.10
06/23/2021	0.00
06/24/2021	0.00
06/25/2021	0.00
06/26/2021	0.00
06/27/2021	0.00
06/28/2021	0.00
06/29/2021	0.00
06/30/2021	0.00
Totals :	4.07 in.

Attachment 1

Hydrologic Determination Report

Beckwith Point

Date: 11/30/21

Division of Water Resources
Tennessee Department of Environment and Conservation (TDEC)
711 R.S. Gass Blvd.
Nashville, TN 37216

U.S Army Corps of Engineers - Nashville District
Regulatory Division
3701 Bell Road
Nashville, TN 37214

RE: Permission to Access Property for Hydrological Determination and Jurisdictional Determination of Beckwith Pointe, Mt. Juliet (Wilson County)

TDEC and USACE have my permission to access the property located northeast of the intersection of Sunny Acre Drive and Belina Parkway (Parcel ID 095 078 05808 000 2022) as referenced in the Hydrologic Determination Report and Jurisdictional Determination Report conducted by Mr. Anthony Grow.

Please contact me via my cell phone or email if you have any questions.

Sincerely,

Company Name (if applicable): VOMJ Investment Partners

Name: Frank Horton

Signature:

Address: 213 Overlook Circle, Suite B, Brentwood TN 37027

Phone: (615) 642-8065

Email: Frank.horton@CPSland.com

Cc: Anthony Grow, TNQHP