

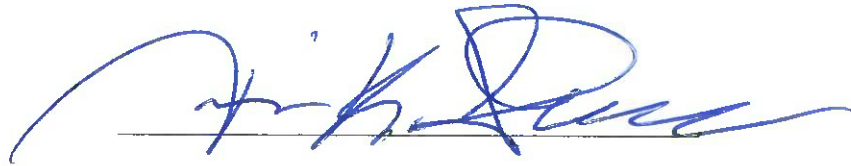
**Date:** May 9, 2022

**Property Owner:** Affordable Development Park, LLC  
P. O. Box 910  
Caryville, TN 37714

**Purpose:** Potential Road Crossing/Fill for  
Caryville Limestone, LLC

**Qualified Hydrologic  
Professional:** Tim K. Slone  
TN QHP – 1011-TN11  
(Expires 12/31/2023)  
IRTEC, Inc.  
P. O. Box 306  
Caryville, TN 37714

***This report is being submitted to the Tennessee Division of Water Resources by a Qualified Hydrologic Professional. All submitted information is true, accurate and complete.***

A handwritten signature in blue ink, appearing to read 'Tim K. Slone', is written over a horizontal line.

Tim K. Slone  
TN QHP 1011-TN11 (expiration date 12/31/2023)



**Hydrologic Determination Field Data Sheet**  
Tennessee Division of Water Resources, Version 1.5 (Fillable Form)

Named Waterbody: Unnamed Trib to Right Fork of Coal Creek		Date/Time: 4/5/22
Assessors/Affiliation: Tim K. Slone, Consulting Engineer QHD 1011-TN11		Project ID :
Site Name/Description: Caryville Limestone		
Site Location: 1608 TN-116, Caryville, TN 37714		
HUC (12 digit): 060102070401	Latitude: 36.2657	
Previous Rainfall (7-days) : 0.40"	Longitude: -84.1845	
Precipitation this Season vs. Normal : average CJUC/NOAA		
Source of recent & seasonal precip. data :		
Watershed Size : ~170 acres	County: Campbell	
Soil Type(s) / Geology : Claiborne Silt Loam/Dolomite & Karst	Source: WebSoil/USGS	
Surrounding Land Use : Forest/Some Open Land/Active Quarry		
Degree of historical alteration to natural channel morphology & hydrology (select one & describe fully in Notes) : Slight		

**Primary Field Indicators Observed**

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

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

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

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

**Overall Hydrologic Determination = WET WEATHER CONVEYANCE**

**Secondary Indicator Score (if applicable) = 0.00**

**Justification / Notes :**

Water course has been altered by anthropogenic activities including railroad construction, logging, exploration activities, downstream residential development and an active limestone quarry.

The lower reach lacked any defined bed and bank and was dry during the primary indicator season under normal precipitation conditions. At the railroad crossing, it appears that the storm runoff pools up and soaks into the ground. The downstream outlet of the railroad crossing did not indicate a discharge and had no defined channel.

**Table 1. Calculation of Normal Weather Conditions**

		Long-term rainfall records							
	Month	Minus One Std. Dev. (Dry)	Normal (Mean inches)	Plus One Std. Dev. (Wet)	Actual Rainfall *	Condition (dry,wet normal)	Condition value	Month weight value	Product of previous two columns
1 <sup>st</sup> prior month*	Mar	2.76	5.48	8.20	2.80	normal	2	x 3	6
2 <sup>nd</sup> prior month*	Feb	3.09	5.35	7.61	8.30	wet	3	x 2	6
3rd prior month*	Jan	2.92	5.11	7.30	2.40	dry	1	x 1	1
								Sum =	13

\* CJUC Caryville Water Plant

Note:

If sum is:	
6-9	Then prior period has been dryer than normal
10-14	Then prior period has been normal
15-18	Then prior period has been wetter than normal

Conditon Value:	
Dry =	1
Normal =	2
Wet =	3

Conclussions:	<b>normal weather conditions</b>
	2022



## U.S. Climate Normals Quick Access

The U.S. Climate Normals Quick Access tool provides graphs and tables of average temperature, precipitation, and snowfall at more than 15,000 U.S. observation stations. For access to other climatological statistics and variables, visit the [Normals Homepage](#).

Choose from one of three averaging periods:

- Latest 30-year period (1991-2020): Most recent standard climatological period (2021 release); recommended for most purposes.
- Latest 15-year period (2006-2020): Non-standard shorter period intended for special applications.
- Legacy period (1981-2010): Previous standard climatological period (2011 release); calculated using 2011 versions of data and methods; use caution when comparing to periods from the 2021 release.

## Search Instructions [+]

Monthly
Daily
Hourly
Annual/Seasonal

1991-2020
2006-2020
1981-2010

MAX TEMP (°F)
MIN TEMP (°F)
AVG TEMP (°F)
PRECIP (IN)
SNOW (IN)

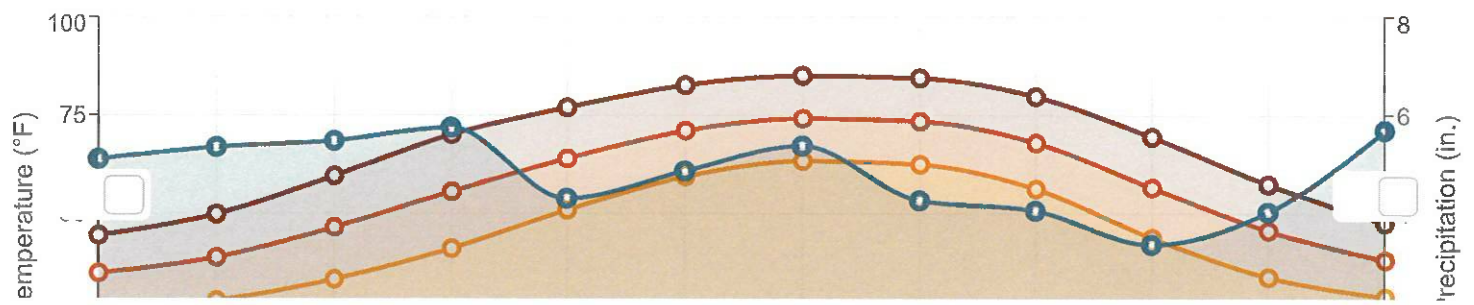
find stations by name

American Samoa
N. Mariana Is.
Palau
Virgin Islands
Puerto Rico
U.S. Minor Outlying Island

WHITWELL 0.3 SE
WHITWELL 4.5 ENE
WHITWELL-SEQUATCHIE VLY
WINCHESTER 0.5 W
WINCHESTER 1.6 W
WINCHESTER 3.9 W
WINCHESTER 5SE
WOODBURY 1 WNW

NORRIS, TN

Get this data as [.csv](#) | [.pdf](#)  
 Station info: [USC00406619](#)



Month	MAX TEMP (°F)	MIN TEMP (°F)	AVG TEMP (°F)	PRECIP (IN)	SNOW (IN)
Jan	44.4	25.2	34.8	5.11	1.1
Feb	49.8	27.8	38.8	5.35	1.5
Mar	59.6	33.3	46.5	5.48	0.1
Apr	70.1	41.1	55.6	5.75	0.0
May	77.0	50.9	64.0	4.31	0.0
Jun	82.7	59.4	71.1	4.87	0.0
Jul	85.1	63.4	74.2	5.38	0.0
Aug	84.5	62.5	73.5	4.27	0.0
Sep	79.8	56.3	68.0	4.06	0.0
Oct	69.5	43.8	56.6	3.37	0.0
Nov	57.4	33.8	45.6	4.03	0.0
Dec	47.5	28.7	38.1	5.69	0.4



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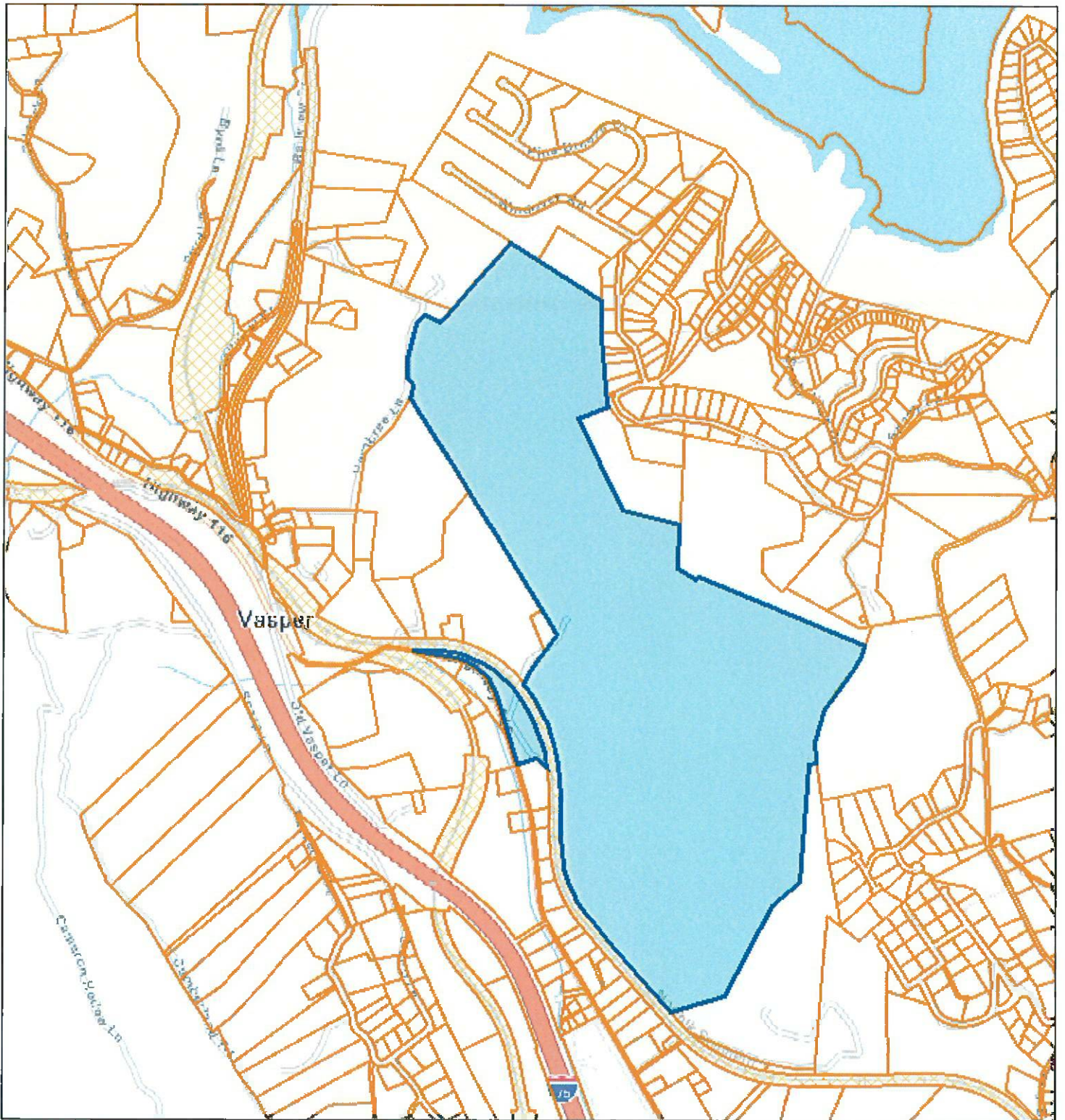
## CONTACT US

Email: [ncei.info@noaa.gov](mailto:ncei.info@noaa.gov)  
 Phone: (828) 271-4800

1 218.620166368195  
2 226.019580152351  
3 271.535363202268  
4 242.415197880136  
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6 233.320573023294  
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23 207.991217436247  
24 273.657184619512



# Campbell County - Parcel: 127 069.00



Date: May 9, 2022  
County: Campbell  
Owner: AFFORDABLE DEVELOPMENT  
Address: HWY 116 OFF OF  
Parcel Number: 127 069.00  
Deeded Acreage: 267.62  
Calculated Acreage: 0  
Date of Imagery: 2019

State of Tennessee, Comptroller of the Treasury, Department of Property  
Assessment (DPA) – Geographic Services

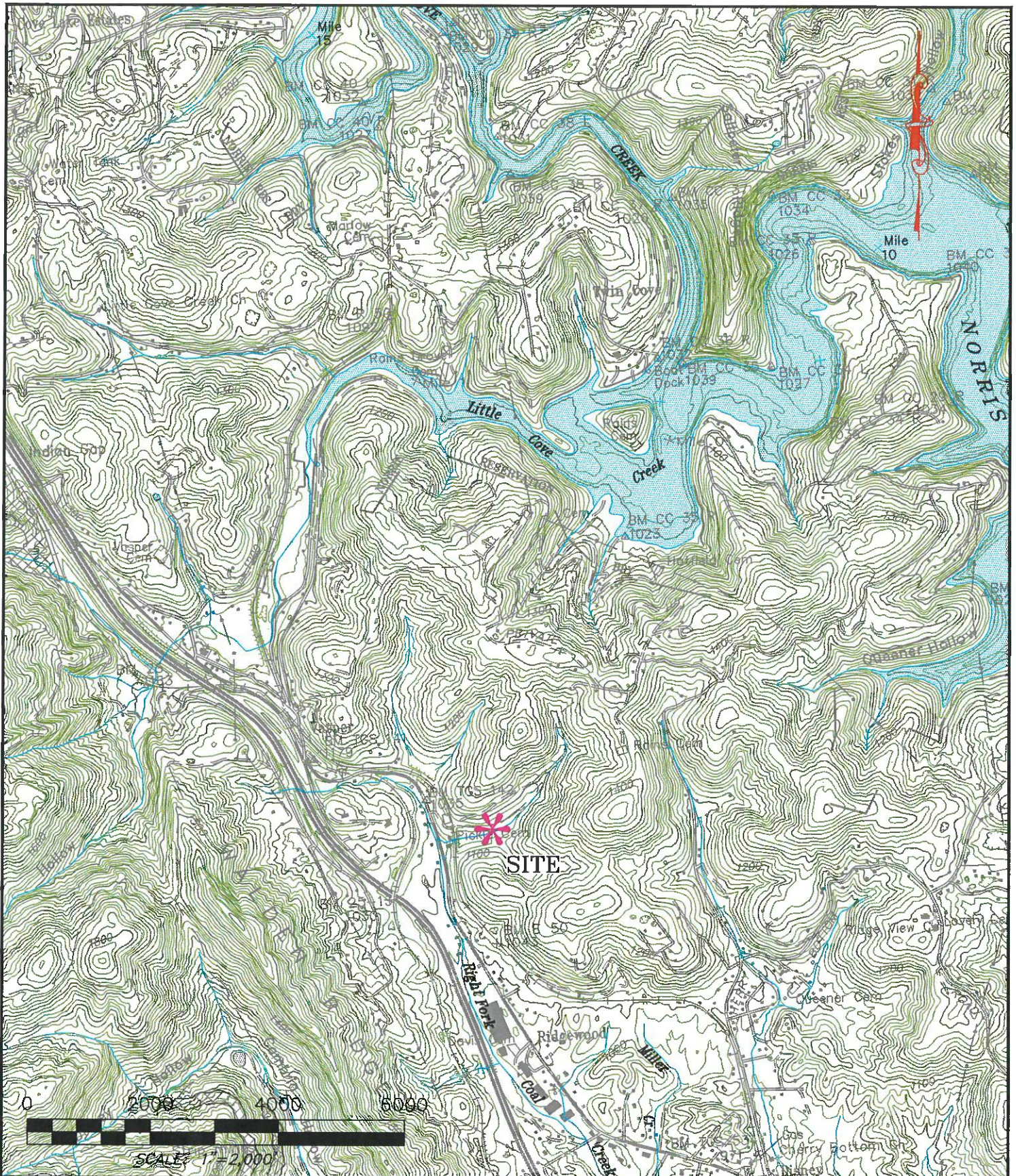
The property lines are compiled from information maintained by your local county Assessor's  
office but are not conclusive evidence of property ownership in any court of law.



# Custom Soil Resource Report Soil Map







# **GENERAL LOCATION MAP**

SCALE: 1"=2000'  
JACKSBORO QUAD.  
(NAD 83)

PREPARED BY:  
**IRTEC**

211 Main Street, P.O. Box 308  
Caryville, TN 37714  
423 666-1916



**CARYVILLE Limestone, LLC**  
1608 TN-116  
P.O. BOX 910  
CARYVILLE, TN 37714

**Limestone Quarry**  
1608 TN-116  
CARYVILLE, TN  
CAMPBELL COUNTY  
RIGHT FORK COAL CREEK



LAT: 36.2657  
LONG: -84.1845

FILE DWG: CL QUARRY\_GLM  
DATE: 05-05-22