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This report concerns the preliminary soils and site investigations for septic system suitability on the Lawson lot (3.53 acres) located at the end of Corinth Drive near Ingleside in northern Franklin County. The property identification number is: 2808-96-7731.

The attached sketch map shows the approximate location of soils areas that were estimated from field investigations as well as the relevant drainage features. This map was prepared using property information and aerial photography obtained from the Franklin County GIS web site. The topographic contours (2 ft. interval-LIDAR) were obtained from the NC DOT GIS web site. The USDA soil survey maps of the area were consulted as to the general nature of the soils, streams and landforms.

The soils were investigated by hand auger borings made at selected locations, by field observations of soil related landforms and vegetation and by evidences of surface water and soil wetness. The locations of the individual soil borings as well as soils boundaries were estimated by pacing from drainage features as inferred from the topographic map and from a few cultural features as observed on the aerial photography. None of the property corners or property lines were marked in the field. Property lines will need to be marked before any issues regarding the specific suitability for septic drain fields can be resolved.

SOIL SUITABILITY

The suitability classifications of the soils areas as estimated from the field investigations based on North Carolina On-site Sewage Disposal regulations (15A NCAC 18A .1900) area as follows:

SOILS AREA 2: These soils will classify unsuitable for conventional septic system drain fields. These soils have dark brown and light yellowish brown sandy loam surface layers 6 to 10 inches thick overlying yellowish brown clay to clay loam subsoils that are mottled with gray at depths ranging from 24 to more than 30 inches from the soil surface. This soils areas appear to have potential for on-site sewage disposal. The soils have the potential to be re-classified to provisionally suitable by using modifications for conventional drain fields or by using alternative septic systems. The modifications will involve the installation of up-slope interceptor drainage, the use of ultra-shallow (at grade) systems or the use of low pressure pipe septic systems. The sewage loading rates are estimated to range from 0.25 to 0.30 gal./sq. ft. of trench bottom for modified conventional drain fields and from 0.08 to 0.10 gal./sq. ft. of

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drain field for alternative or low pressure pipe systems. The main concern for the use of this is the actual area available. The area is close to the rear property line and is based on four borings. The property lines and corners will need to be marked accurately before any consideration for use of this area can be resolved.

SOILS AREA 3: These soils will classify unsuitable for conventional and most alternative septic system drain fields. These soils have grayish brown and pale brown sandy loam surface layers overlying yellowish brown clay loam to clay subsoils that are mottled with gray within the upper 18 to 24 inches of the soil profiles. The subsoil clays also have a firm and plastic consistency indicative of the presence of expansive clay mineralogy. Some of these soils have the potential to be approved for anaerobic drip irrigation systems subject to additional detailed soils investigations.

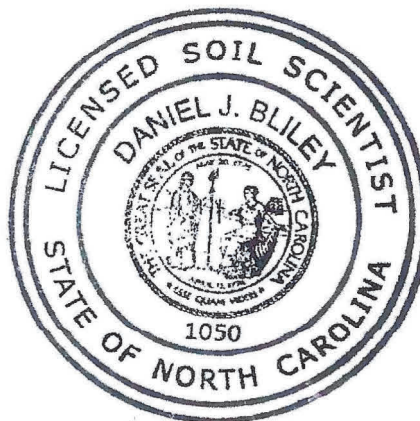
Overall this property is not suited for development using septic systems for on-site sewage disposal. It has the potential to be approved for a facility having a small waste water flow subject to the additional field investigations, the layout of drain field trench systems, the design of site modifications and the design of effluent distribution systems.

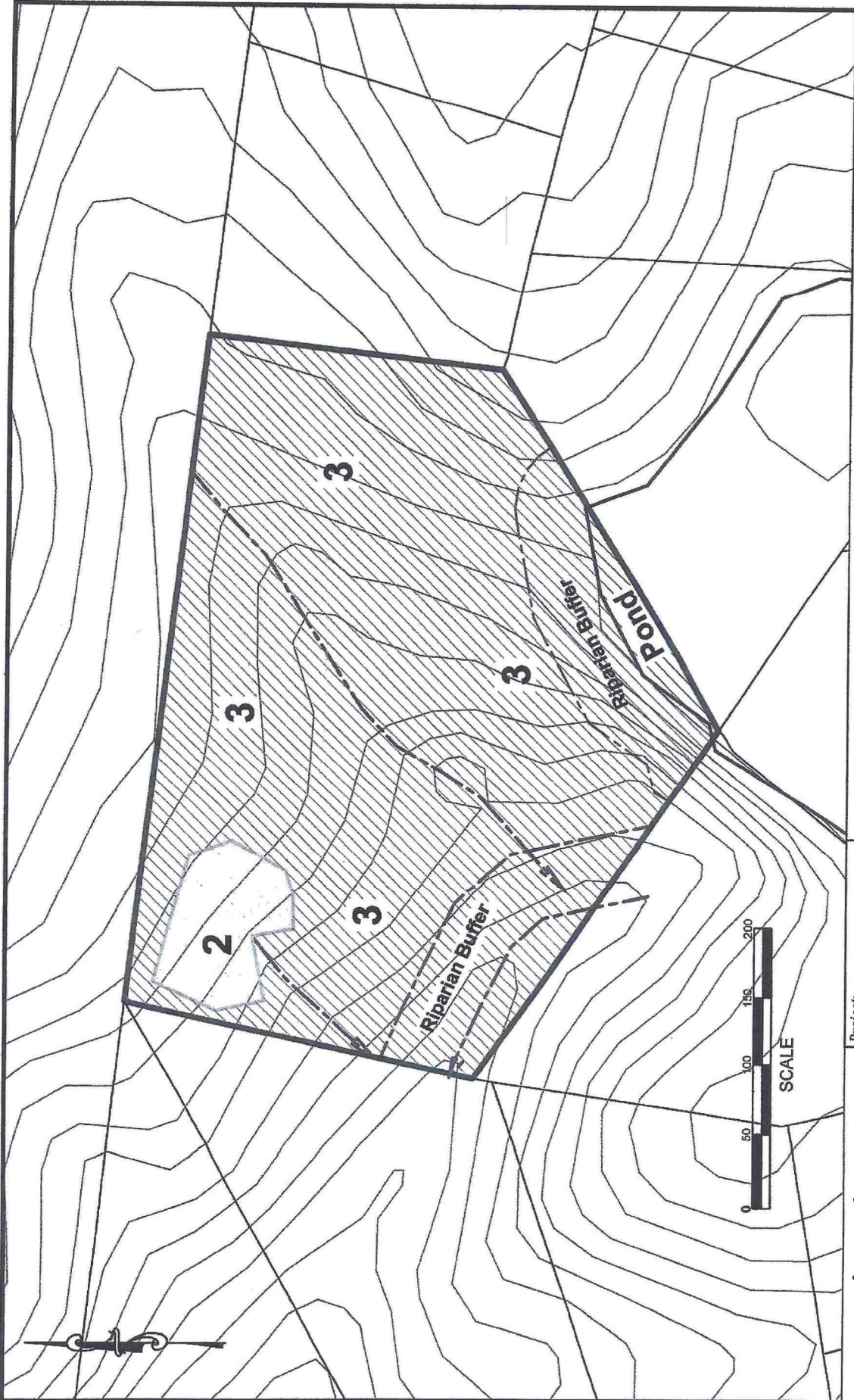
Please note the location of the riparian buffers adjacent to the stream feature and adjacent pond. These features appear on the USDA soils map and are subject to buffers under the Tar-Pamlico Basin regulations (15A NCAC 02B .0259). Most development related activities are prohibited or restricted within the buffer zones (50 ft. from the edge of the channel or pond bank). You can review these regulations by performing a Google search referencing the administrative code as provided above .

Please call me if you have any questions concerning this report or these investigations.

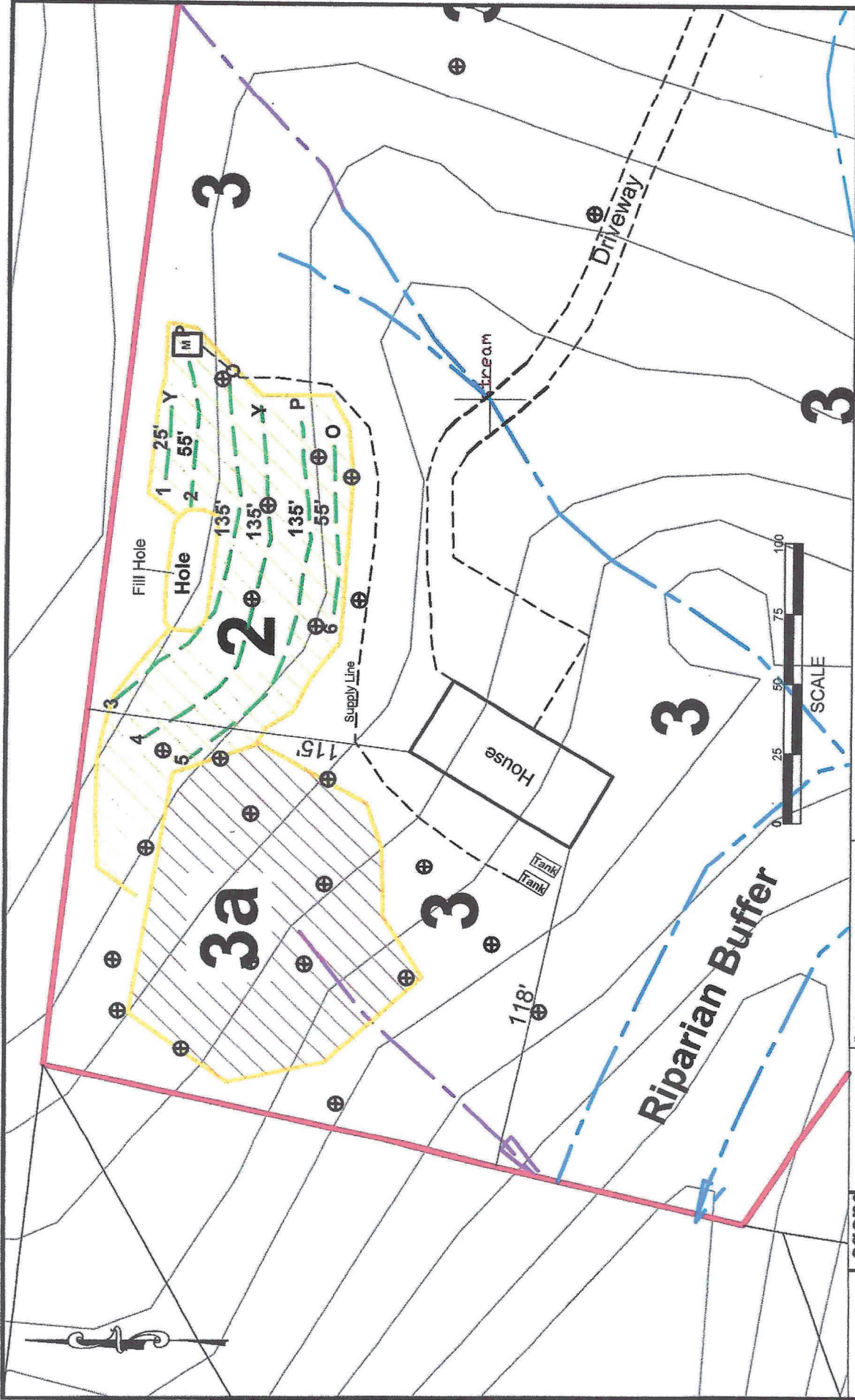
Sincerely


Daniel J. Bliley
Licensed Soil Scientist





Legend Unsuitable to Provisionally Suitable Unsuitable Surface Drains Stream	Project: Lawson Lot 3.53 ac.	Daniel J. Bliley Soils and Land Use Consultant 614 South Second Street - Smithfield NC 27577 Phone/Fax: (919) 934-8610 - Email: dbliley1@nc.rr.com
	Client: Eric Driver	
	CAD File: Driver	
	Scale: 1" = 100'	
	Date: April 12, 2019	



Legend

-  2 Suitable - Modified Conventional
-  3a Suitable - Drip Irrigation
-  Surface Drains
-  Stream

Project:	Contreras 3.35 ac.
Client:	Pedro Vega
CAD File:	Vega
Scale:	1" = 50'
Date:	March 2, 2024

Daniel J. Biley

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⊕ Soil Borings