

AVIZINIS

ENVIRONMENTAL
SERVICES INC

WETLAND REPORT

SITE LOCATION:
A.P. 33, Lot 24
852 Broad Rock Road
South Kingstown, Rhode Island

PREPARED FOR:
Curt Nunes, PLS
Commonwealth Land Surveyors
cnunes@commonwealthlandsurveyors.com

PREPARED (July 15, 2022) BY:

Edward J. Avizinis, CPSS, PWS | President



INTRODUCTION

Avizinis Environmental Services, Inc., (AES), has completed the requested field work at the identified project site at 852 Broad Rock Road in South Kingstown, Rhode Island. AES staff visited the site on July 14, 2022 to delineate the regulated wetlands that occur along the project site.

Wetlands in Rhode Island are regulated by two agencies, the Department of Environmental Management (DEM), or the Coastal Resources Management Council (CRMC). The State of Rhode Island has created predetermined maps that identify which properties are under which regulatory agency. These maps identify that the subject property is within DEM jurisdiction. Therefore, AES has delineated all onsite wetland features on the lot to meet the standards outlined in Appendix 2 of the Rules and Regulations Governing the Administration and Enforcement of the Freshwater Wetlands Act (250-RICR-150-15-3, effective July 1).

EXISTING CONDITIONS

The is located extending west from Broad Rock Road to the banks of the Saugatucket River in a residential section of South Kingstown, Rhode Island. The property consists of a residential structure with an associated yard, driveway, and other ancillary structures. The Saugatucket River is categorized as a warm-water fishery by the DEM and runs along the western edge of the property. The length of the Saugatucket River running through this region has been designated as a wildlife corridor and High Value / High Vulnerability Habitat by the DEM. All limits of wetland impacting the property have been delineated by AES.

A review of historic aerial photographs available from the DEM – Environmental Resource Maps, shows that as of the earliest available photographs taken in 1939, this property and much of the surrounding area were cleared for agricultural use between Broad Rock Road and the Saugatucket River. By the time of the next available imagery from 1951-1952, much of this cleared land had been left to revegetate. The imagery from 1962 reveals that a portion of the eastern portion of this property had been recleared, but as of the next available imagery from 1972 had been left to revegetate once more. The imagery from 1981 shows that the eastern portion of the property had once again been cleared, and the first structure on the lot had been erected towards the center of the property. As of the time of the

1997 imagery, the second structure present on the lot had been constructed. No additional changes can be seen in the remaining successive images.

WETLAND FEATURES

AES has established one wetland flag series on the property. Flagging labeled **A1 – A30** delineates the closest limit of a swamp surrounding Saugatucket River along the western edge of the property and extending well off the lot, following the course of the river off to the north and south.

REGULATORY SETBACKS

In accordance with wetland regulations (250-RICR-150-15-3), all freshwater wetlands will require a 100-foot Jurisdictional Area, and all rivers, streams, and intermittent streams require a 200-foot jurisdictional area. Any proposed alterations with this zone will require some degree of application and review by the DEM. This jurisdictional area has not been depicted on the attached maps.

Furthermore, a separate buffer zone and construction setback will be required for the wetland. The buffer zone is a naturally vegetated or planted area left to naturalize that is immediately contiguous with the wetland. The setback is a separate zone that limits the placement of structures.

The size of the buffer zone is based on numerous factors including wetland vegetative type, subtype, position within the watershed, and habitat types among other factors. The project area lies within River Protection Region 2. The wetland feature delineated by the A-series is a deciduous-dominated swamp that is greater than 10 acres in size and is not within a drinking water supply watershed. This wetland will therefore receive a 75-foot buffer zone per section 2.23.H.3.e. In accordance with 2.23.H.5., Saugatucket River shall require the application of a 200-foot buffer zone.

In addition, a 20-foot construction setback shall be applied to the landward limit of the farthest-reaching buffer zone. Certain construction activities are limited within the setback related to primary structures. Only a 5-foot construction setback pertains to accessory structures (section 2.71.C.1.). It is unclear in the regulations whether or not stormwater

features are subject to the setback requirements, nor are they listed under the definition for accessory structures.

Flag Series	Classification	Jurisdictional Area (ft)	Buffer Zone (ft)	Setback (ft)
A1 – A30	Swamp	100	75	20
Not flagged	River (Saugatucket River)	200	200	20

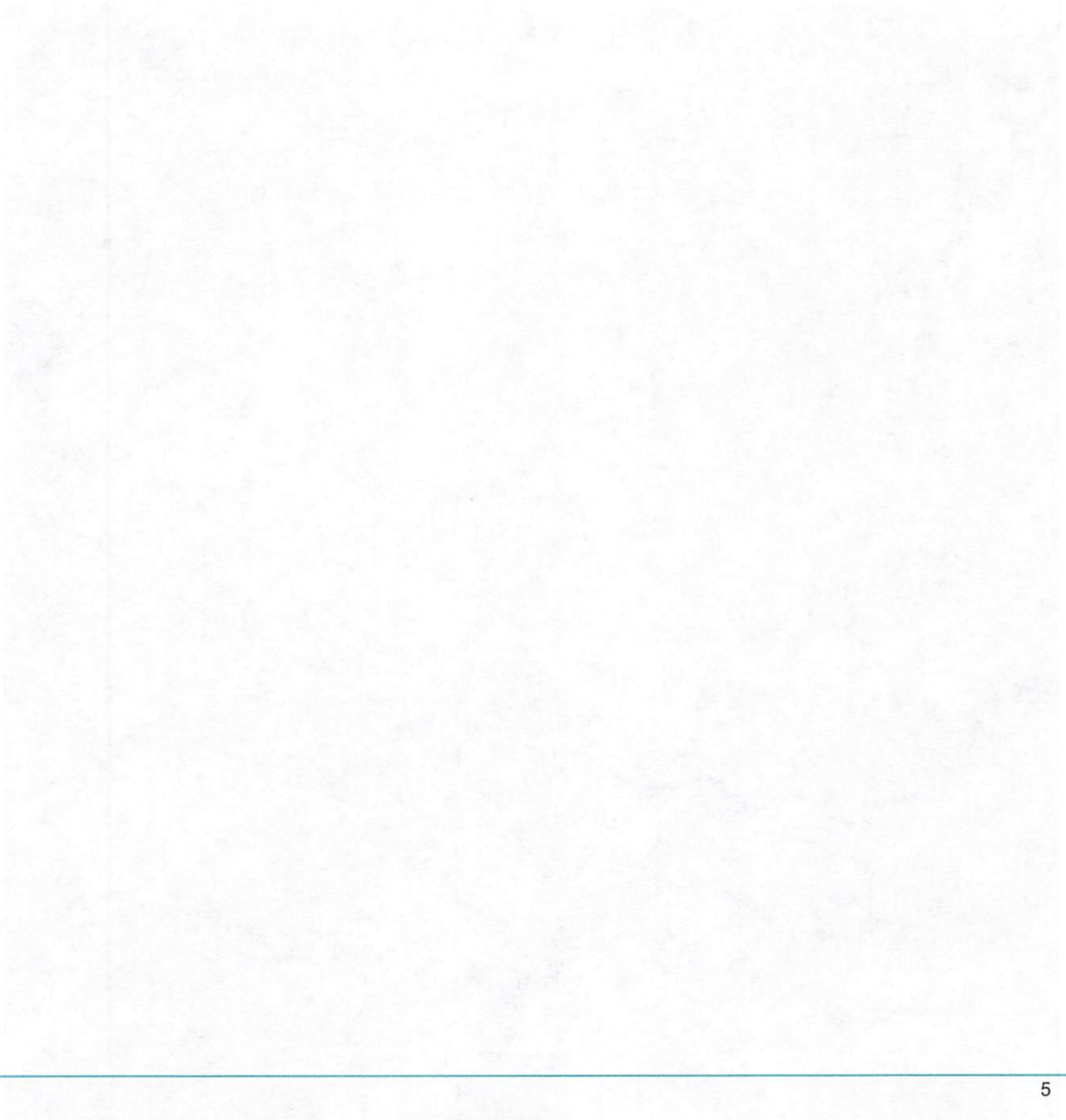
CLOSING

Thank you for giving AES the opportunity to assist you with this project. Please review the attached wetland delineation map which represents the finding of my field work. I have located the wetland flags and other pertinent site features with a Spectra SP20 submetric GPS/GNSS. Although this is not survey quality it is useful for preliminary planning. This data has also been forwarded to you in conjunction with this report and is in the NAD 1983 RI State Plane format in case this information is useful to you. Please do not hesitate to contact AES should you have any questions on this report.



ATTACHMENTS

- 1) 2021 AERIAL MAP
- 2) USDA – NRCS SOIL SURVEY MAP
- 3) USGS TOPOGRAPHIC MAP
- 4) WETLAND DELINEATION MAP

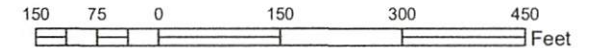




2021 AERIAL MAP
A.P. 33, Lot 24 | 852 Broad Rock Road
South Kingstown, Rhode Island

LEGEND

 PROPERTY LINE



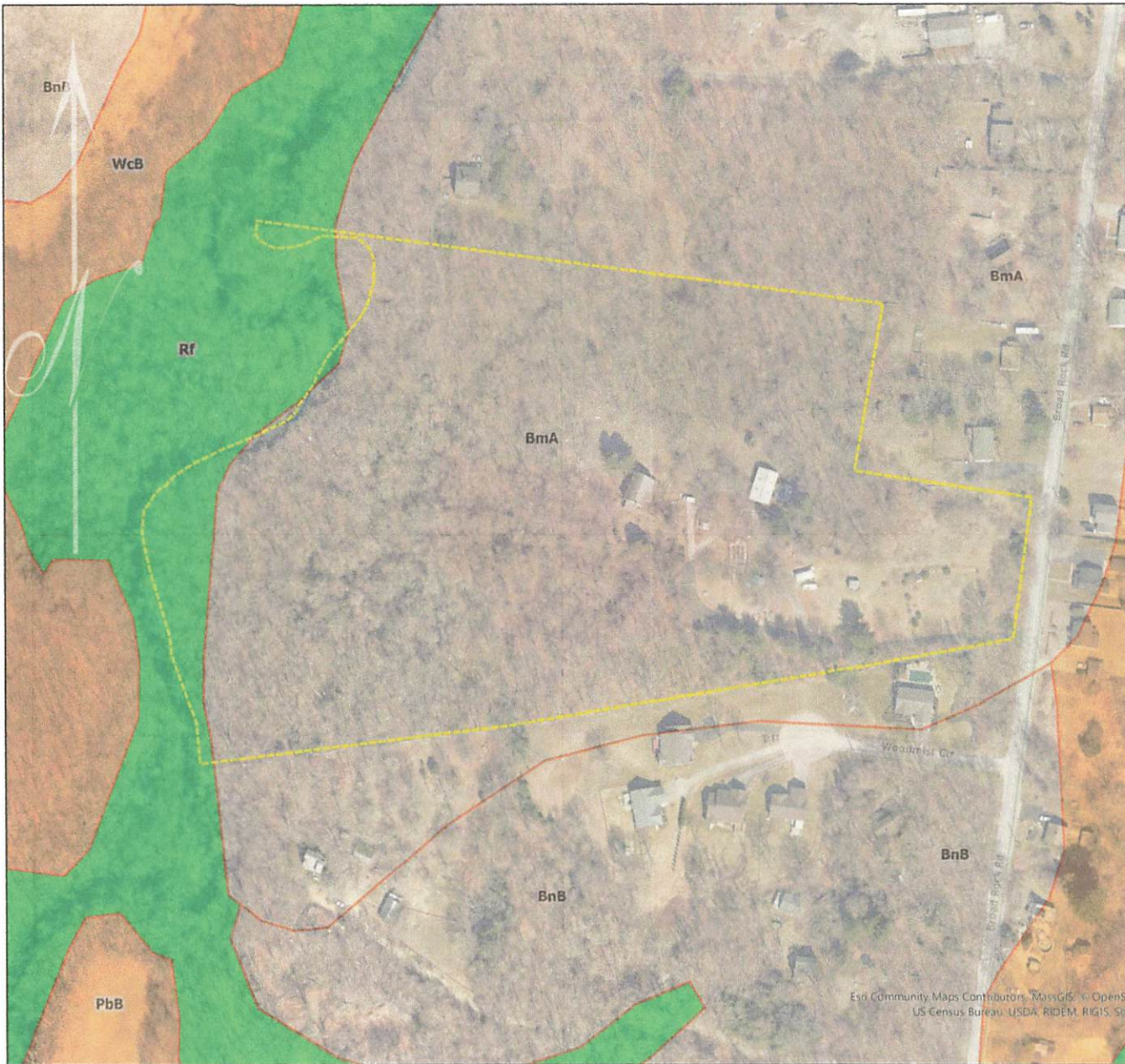
General Notes:

1. This map should not be interpreted as a survey quality graphic. It is designed for preliminary planning purposes only. AES recommends consultation with a Professional Land Surveyor for accurate site feature locations.
2. Property lines as depicted on this map have been approximated from plat maps available from the town assessor's online database.
3. Aerial photograph base map and other data layers acquired from the RI DEM and RIGIS database.

Map created by:


Patrick J. Loveland, GIS Specialist

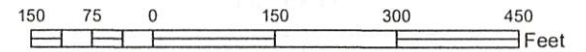
07/07/2022



USDA - NRCS SOIL SURVEY MAP
 A.P. 33, Lot 24 | 852 Broad Rock Road
 South Kingstown, Rhode Island

LEGEND

- BmA - Bridgehampton silt loam, till substratum, 0 to 3 percent slopes
- BnB - Bridgehampton-Charlton complex, very stony, 0 to 8 percent slopes
- PbB - Paxton very stony fine sandy loam, 0 to 8 percent slopes
- Rf - Ridgebury, Whitman, and Leicester extremely stony fine sandy loams
- WcB - Wapping very stony silt loam, 0 to 8 percent slopes



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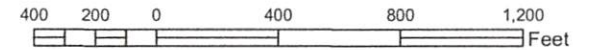
07/07/2022



USGS TOPOGRAPHIC MAP
 A.P. 33, Lot 24 | 852 Broad Rock Road
 South Kingstown, Rhode Island

LEGEND

 PROPERTY LINE



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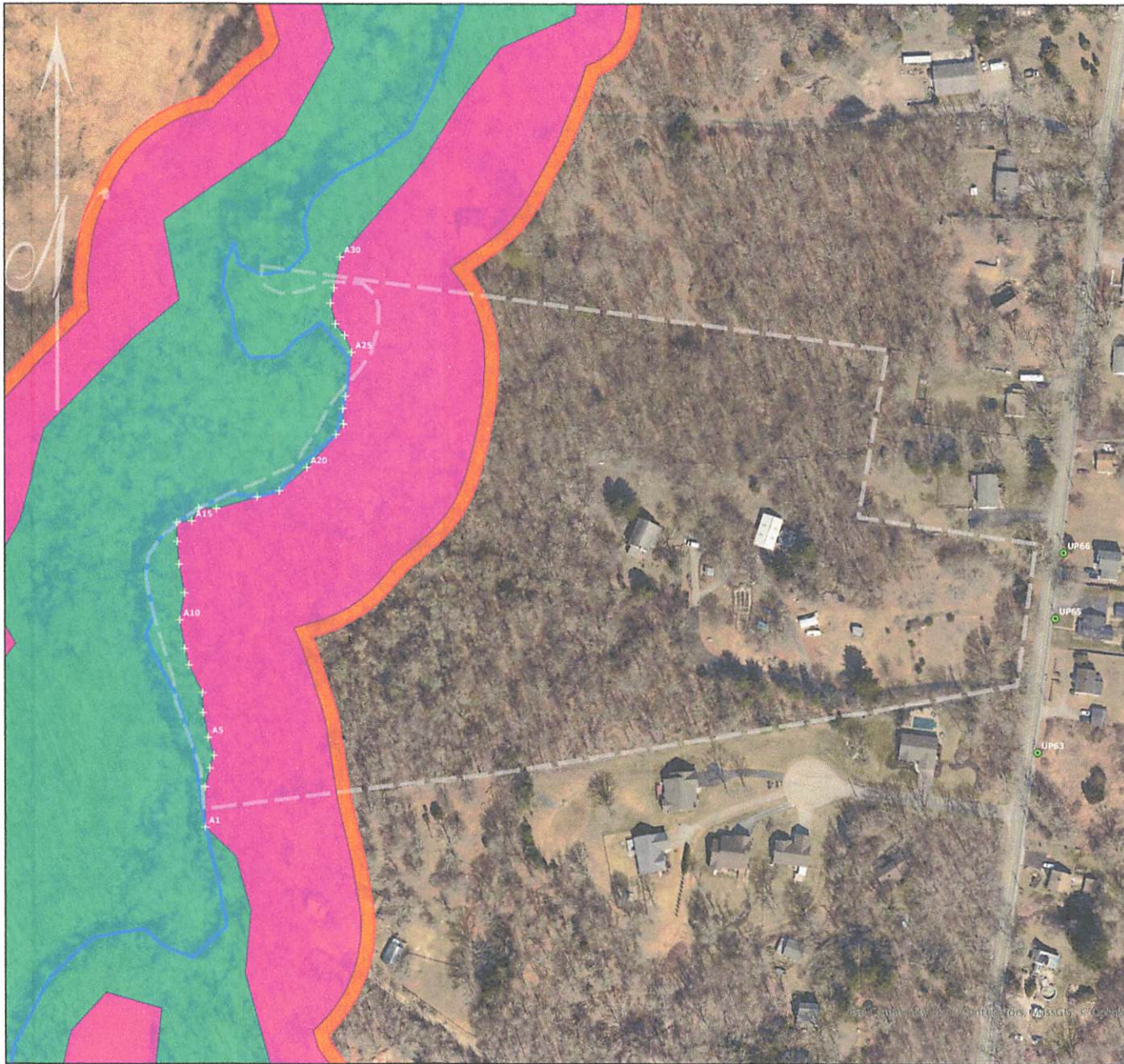
AVIZINIS ENVIRONMENTAL SERVICES INC

Patrick J. Loveland

Map created by:

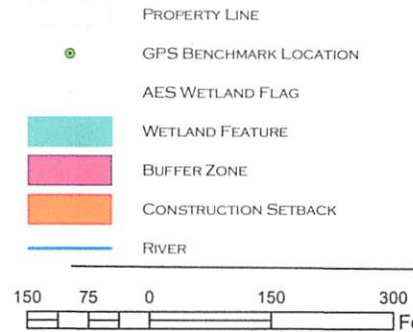
Patrick J. Loveland, GIS Specialist

07/07/2022



2022 WETLAND DELINEATION MAP
 A.P. 33, Lot 24 | 852 Broad Rock Road
 South Kingstown, Rhode Island

LEGEND



General Notes:

1. This map should not be interpreted as a survey quality graphic. It is designed for preliminary planning purposes only. AES recommends consultation with a Professional Land Surveyor for an accurate site plan.
2. Property lines as depicted on this map have been approximated from plat maps available from the town assessor's online database.
3. Aerial photograph base map and other data layers acquired from the RI DEM and RIGIS database.
4. Site features located with a Juniper Geode Submetric GNSS receiver with SWmaps data collection software. Non-delineated wetland edges have not been field verified and are depicted for graphic purposes only.

Delineation performed by:

Edward J. Avizinis, CPSS, PWS 07/14/2022

Map created by:

Patrick J. Loveland, GIS Specialist 07/15/2022