

# Commonwealth of Virginia

Application for:  Sewage System  Water Supply

|                             |
|-----------------------------|
| <b>VDH Use only</b>         |
| Health Department ID# _____ |
| Due Date _____              |

Owner Michael P. McQuade

Phone 804-901-7855

Mailing Address 30 Courthouse Road  
Richmond, VA 23236

Phone \_\_\_\_\_

Fax GDDentist@aol.com

Agent Theresa A. King; Koontz Bryant Johnson Williams

Phone 804-541-1436

Mailing Address 7511 Whitepine Road  
North Chesterfield, VA 23237

Phone \_\_\_\_\_

Fax 804-541-1437

Site Address TBD Greenes Road  
Amelia Court House, VA 23002

Email TKing@kbjwgroup.com

Directions to Property: \_\_\_\_\_

Subdivision \_\_\_\_\_ Section \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_

Tax Map 46-24 Other Property Identification \_\_\_\_\_ Dimension/Acreage of Property 4.00

### Sewage System

**Type of Approval:** Applicants for new construction are advised to apply for a certification letter to determine if land is suitable for a sewage system and to apply for a construction permit (valid for 18 months) **only when ready to build.**

Certification Letter  Construction Permit  Voluntary Upgrade  Repair Permit  Minor Modification

**Proposed Use:**

Single Family Home (Number of Bedrooms 3) Multi-Family Dwelling (Total Number of Bedrooms \_\_\_\_\_)

Other (describe) \_\_\_\_\_

Basement?  Yes  No Walk-out Basement?  Yes  No Fixtures in Basement  Yes  No

Conditional permit desired?  Yes  No If yes, which conditions do you want?

Reduced water flow  Limited Occupancy  Intermittent or seasonal use  Temporary use not to exceed 1 year

Do you wish to apply for a betterment loan eligibility letter?  Yes  No \*There is a \$50 fee for determination of eligibility.

### Water Supply

Will the water supply be  Public or  Private? Is the water supply  Existing or  Proposed?

If proposed, is this a replacement well?  Yes  No If yes, will the old well be abandoned?  Yes  No

Will any buildings within 50' of the proposed well be termite treated?  Yes  No

Well Type (e.g. domestic use, agricultural, irrigation, etc.) Domestic Use

### All Applicants

Is this property intended to serve as your (owners) principal place of residence?  Yes  No

All applications must be accompanied by private sector evaluations and designs, unless a petition for VDH services is approved. Is a Petition for Service form attached?  Yes  No

In order for VDH to process your application for a sewage system you must attached a plat of the property and a site sketch. For water supplies, a plat of the property is recommended and a site sketch is required. The site sketch should show your property lines, actual and/or proposed buildings and the desired location of your well and/or sewage system. When the site evaluation is conducted the property lines, building location and the proposed well and sewage sites must be clearly marked and the property sufficiently visible to see the topography. I give permission to the Virginia Department of Health to enter onto the property described during normal business hours for the purpose of processing this application and to perform quality assurance checks of evaluations and designs certified by a private sector Onsite Soil Evaluator or Professional Engineer as necessary until the sewage disposal system and/or private water supply has been constructed and approved.

Signature of Owner/ Agent \_\_\_\_\_

Date \_\_\_\_\_



**KOONTZ BRYANT  
JOHNSON WILLIAMS**

**AOSE/PE Report For:**

Certification Letter

**Location of Property:** TBD Greenes Road

**Applicant or Client Address:**

Michael P. McQuade  
30 Courthouse Road  
Richmond, VA 23236

**Prepared by AOSE**

Theresa A. King, #1464

**Date of Report:** 03-10-2021

**Health Dept. ID No.** \_\_\_\_\_

**Revision Date:**

**Contents/Index of this Report:**

1. Cover Page as Required by VDH
2. Soil Evaluation Form
3. Soil Profile Descriptions
4. Design Calculations - Primary
5. Design Calculations - Reserve
6. Notes for Owner
7. Site Sketch
8. Survey Plat



**Certification Statement:**

I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-615), and other applicable policies of the Virginia Department of Health. Furthermore, I certify that my evaluation and/or design contained herein complies with all applicable laws, regulations, and policies implemented by the Virginia Department of Health.

This design has been completed by the licensed AOSE under the engineering exemption contained in Section 54.1-402.A.11 of the Code of Virginia.

I recommend a Certification Letter be approved.

AOSE: Theresa A. King #1464

Date: 03-10-2021



**KOONTZ BRYANT  
JOHNSON WILLIAMS**

### Soil Evaluation Form

#### General Information

Date of Evaluation: 12-03-2020  
Applicant: Michael P. McQuade  
Address: 30 Courthouse Road  
Richmond, VA 23236  
Location: TBD Greenes Road  
Tax Map/ GPIN: 46-24

Chesterfield Health Dept.  
Telephone: 804-901-7855

#### Soil Summary Information

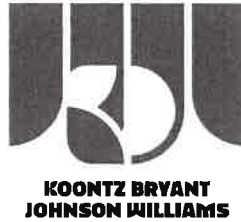
1. Position in Landscape Satisfactory: Yes Describe: Side Slope
2. Slope across drainfield area: 4-6%
3. Depth to rock/impervious strata Max: Min: None:
4. Depth to seasonal water table No:  Yes: Depth:
5. Free water present No:  Yes: Depth:
6. Soil percolation rate estimated Texture Group: II  
Estimated Rate 45 mpi@ 24 " deep
7. Percolation test performed Yes: Number of test holes:  
No:  Depth of test holes:  
Average perc rate:

Name and title of evaluator: Theresa A. King # 1464

Signature of Evaluator: *Theresa A. King*

#### System Description

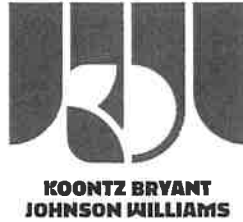
- Site Approved: Drainfield trench bottoms to be placed at 24 " depth at site designated on permit/sketch.
- Site Disapproved:
- Position in landscape subject to flooding or periodic saturation
  - Insufficient depth of suitable soil above hard rock
  - Insufficient depth of suitable soil above seasonal water table
  - Insufficient area of acceptable soil required for drainfield, and/or reserve area
  - Proposed system too close to well.
  - Other (specify)



Date of Evaluation: 11-19-2020

**SOIL EVALUATION REPORT**  
Soil Profile Description

| Hole # | Horizon | Depth (in) | Description of color, texture, etc.  | Texture Group |
|--------|---------|------------|--|---------------|
| BH1    | A       | 0-5        | 10yr 4/2 loose Sandy Loam  | II            |
|        | AE      | 5-16       | 10yr 6/3 loose Sandy Clay Loam   | II            |
|        | E       | 16-28      | 2.5y 7/3 loose Sandy Clay Loam   | II            |
|        | Bt1     | 28-37      | 10yr 6/8 friable Sandy Clay Loam with common medium distinct 10yr 7/8, 10yr 7/3 and 2.5y 7/3                             | II            |
|        | Bt2     | 37-60      | 7.5yr 5/8 loose Sandy Clay Loam with common medium distinct 2.5y 8/3, 10yr 7/8, 2.5yr 5/8 and angular grit               | II            |
| BH2    | A       | 0-4        | 10yr 4/3 loose Sandy Loam  | II            |
|        | E       | 4-19       | 10yr 6/3 loose Sandy Clay Loam   | II            |
|        | Bt1     | 19-28      | 10yr 6/8 friable Sandy Clay Loam   | II            |
|        | Bt2     | 28-45      | 10yr 6/8 friable Clay Loam with few medium distinct 5yr 5/6  | III           |
|        | Bt3     | 45-60      | 10yr 5/8 friable Sandy Clay Loam with common medium distinct 2.5y 8/3, 2.5yr 5/8, 10yr 6/6 - parent colors and feldspars | II            |
| BH3    | A       | 0-4        | 10yr 3/3 loose Sandy Loam  | II            |
|        | E       | 4-19       | 10yr 6/3 loose Sandy Loam  | II            |
|        | Bt1     | 19-27      | 10yr 6/6 friable Sandy Clay Loam   | II            |
|        | Bt2     | 27-60      | 10yr 6/8 friable Clay Loam with common medium distinct 7.5yr 5/8, 10yr 7/8 and 7.5yr 6/8 with angular grit and feldspars | III           |



### Drainfield Design Calculations:

Property ID: TBD Greenes Road  
Tax Map: 46-24

Date: 03-16-2021

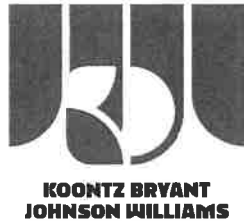
**Design Criteria: Primary:** Primary effluent with trench dispersal

|                             |                 |
|-----------------------------|-----------------|
| Use: Residential            | Bedrooms: Three |
| Daily Flow:                 | 450 gpd         |
| Estimated Percolation Rate: | 45 mpi          |
| System Type (Gravity/Pump): | Pump            |
| Reserve Area Required:      | Yes 100%        |

Area Calculations: Primary

|                                 |                      |
|---------------------------------|----------------------|
| Length of area required:        | 85 feet              |
| Length of area available:       | 85 feet              |
| Width of area required:         | 39 feet              |
| Width of area available:        | 39 feet              |
| Total square footage required:  | 1032 ft <sup>2</sup> |
| Total square footage available: | 1275 ft <sup>2</sup> |

**Six (6) trenches at 85' long x 3' wide 9' O.C. installed at 24" below grade**



**Abbreviated Design: Reserve:** Primary effluent with trench dispersal

|                             |                 |
|-----------------------------|-----------------|
| Use: Residential            | Bedrooms: Three |
| Daily Flow:                 | 450 GPD         |
| Estimated Percolation Rate: | 45 mpi          |
| System Type (Gravity/Pump): | Pump            |
| Reserve Area Required:      | Yes 100%        |

Area Calculations: Reserve

|                                 |               |
|---------------------------------|---------------|
| Length of area required:        | 85 feet       |
| Length of area available:       | 85 feet       |
| Width of area required:         | 39 feet       |
| Width of area available:        | 39 feet       |
| Total square footage required:  | 1032 sq. feet |
| Total square footage available: | 1275 sq. feet |

Five (5) trenches at 8' long x 3' wide, 9' O.C. installed at 24" below grade.

**Note:** By accepting this report, the customer acknowledges that soil descriptions are an inexact science and septic systems are prone to failure from several different sources beyond our control and that liability does not necessarily follow such failure. The customer also acknowledges by acceptance of this report that the maximum liability of Koontz Bryant Johnson Williams is the amount of payment for our services.



### **IMPORTANT NOTES FOR PROPERTY OWNER**

#### Property Owner Please Note:

Care must be used during the clearing of the drainfield area. Work shall be performed in the drainfield area only during dry weather and soil conditions. The reserve area does not need to be cleared at this time. Hand clear the drainfield only. During the clearing of the drainfield, do not rut or compact the soil. Do not allow construction traffic to travel over the drainfield. Do not alter the topography of the drainfield area in any manner.

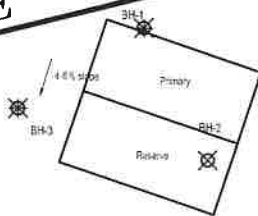
This Certification Letter may be void if the house location interferes with the proposed well or drainfield/reserve locations. Do not allow underground utilities to cross the drainfield or reserve area or to be buried within 10' of the drainfield or reserve areas. Damage, changes to, or encroachments on the drainfield area may lead to this Certification Letter being Null and Void

EMILY BRAGG, ET ALS  
 WB 22 PG 98  
 TM 46-20  
 JN 19034

ROD  
 SET

IRENE  
 DB 257  
 PART OF  
 SEE WB  
 ITE

ROD  
 FD  
 N 76°23'09"E  
 440.69'

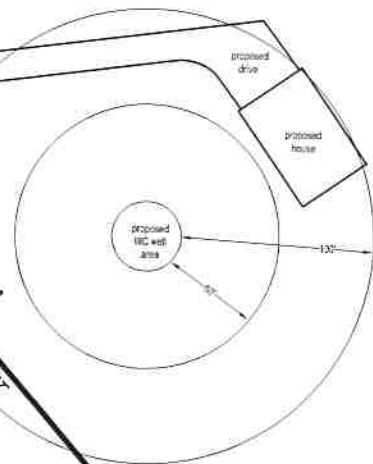


S 39°49'38"E  
 440.69'

4.000  
 ACRES

STATE ROUTE 622  
 GREENES ROAD  
 RIGHT-OF-WAY

N 39°49'38"W  
 440.69'



440.69'  
 S 76°23'09"W

ROD  
 SET

ROD FD  
 ON LINE  
 @ 0.42'

DR. RALPH JOHNSON  
 WB 37 PG 772  
 TM 59-55

This site sketch includes existing and/or proposed property lines, primary and reserve drainfield locations, proposed building locations, driveway, and soil evaluation borings. A sanitary survey of all property within 200' of the septic components has been completed. Any pertinent features found are illustrated on this sketch.

Site Sketch  
 TBD Greenes Road

Date:  
 03-10-2021

Scale:  
 1"= 100'



7511 Whitepine Road  
 N. Chesterfield, VA 23837



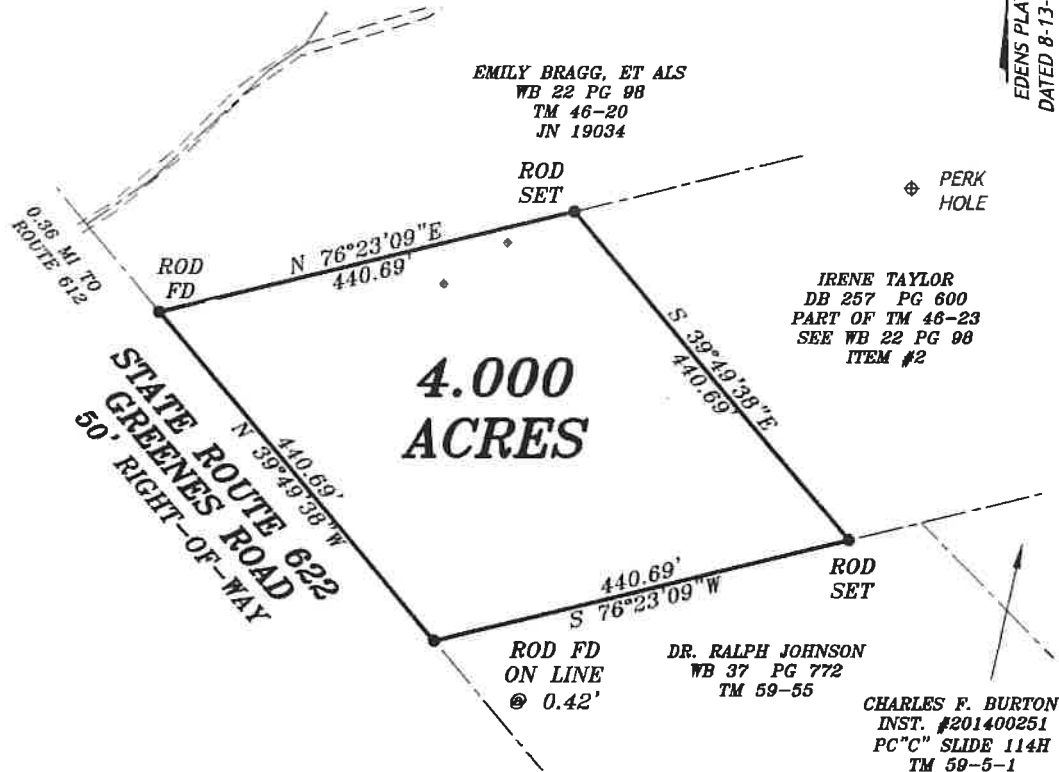
This property is classified as Zone "C", an area of minimal flood hazard in accordance with Flood Hazard Boundary Map 510314 0005 A, dated October 23, 1981.

This plat meets the exemption requirements of the Amelia County Subdivision Ordinance.

Subdivision Agent/Designee \_\_\_\_\_ Date \_\_\_\_\_

**PLAT SHOWING 4.000 ACRES OF LAND  
LOCATED IN THE JACKSON DISTRICT OF  
AMELIA COUNTY, VIRGINIA.**

EDENS PLAT  
DATED 8-13-19



**THIS PROPERTY IS CURRENTLY STANDING IN THE NAME OF WILLIAM BRAGG ESTATE AS FOUND IN WILL BOOK 22 PAGE 98 (ITEM #2) AND IS DESIGNATED AS TAX PARCEL 46-24 IN AMELIA COUNTY, VIRGINIA.**



**Blue Ribbon  
Surveyors, LLC**

PO Box 252 \* Amelia, VA 23002  
(804) 561-5299 \* (804) 561-5905 fax

DATE: NOVEMBER 30, 2020

SCALE: 1" = 150'

JOB NO: 19034A

REQUESTED BY MIKE MCQUADE

11-24-20  
THIS IS TO CERTIFY THAT ON 7-02-19 I MADE AN ACCURATE FIELD SURVEY OF THE PREMISES SHOWN HEREON AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS CORRECT AND COMPLIES WITH THE MINIMUM PROCEDURES AND STANDARDS AS SET FORTH BY THE VIRGINIA STATE BOARD OF ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND CERTIFIED LANDSCAPE ARCHITECTS. SEE TITLE REPORT FOR ENCUMBRANCES AND RESTRICTIVE COVENANTS WHICH MAY NOT BE SHOWN ON THIS PLAT. NO TITLE REPORT WAS PROVIDED FOR THIS SURVEY.

SARAH A. EDENS - LAND SURVEYOR

