



# HOWARD COUNTY HEALTH DEPARTMENT

65597

DATE 8/10/19

AS

Received From

Kellie Delay

PHONE #

410-440-5510

For

Rene KPP / 1030 Taylor St  
Rockville

☐ CASH

☒ CHECK

NO.

1077

Five hundred 50

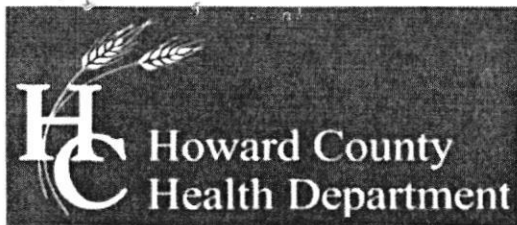
Dollars

\$

500.00

Received By

211 enf



## Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

### APPLICATION FOR PERCOLATION TESTING AND SITE EVALUATION

#### PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME RIVER PARK ESTS

PROPERTY ADDRESS 1036 TAYLOR PARK RD SYKESVILLE MD 21784-5427  
STREET TOWN ZIP

TAX ACCOUNT # 282325 TAX MAP 9 GRID 5 PARCEL 131 LOT NO.        PROPOSED LOT SIZE (ACRES) 1.03

ZONING CATEGORY        TIER       

PROPERTY OWNER(S) BRANDON P MOTHERSHEAD & KELLIE DIANA RILEY

DAYTIME PHONE        CELL        EMAIL       

MAILING ADDRESS 1036 TAYLOR PARK RD SYKESVILLE MD 21784-5427  
STREET CITY, STATE ZIP

APPLICANT BRANDON P MOTHERSHEAD & KELLIE DIANA RILEY RELATIONSHIP TO OWNER: OWNER

DAYTIME PHONE        CELL 410-446-5570 EMAIL bmothershead10@gmail.com

MAILING ADDRESS 1036 TAYLOR PARK RD SYKESVILLE MD 21784-5427  
STREET CITY, STATE ZIP

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

#### PROPERTY:

- ☐ SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 1  
SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) ☐ MAJOR ☐ MINOR
- ☐ CONSTRUCT NEW OSDS ON UNDEVELOPED LOT  
☐ REPAIR OR REPLACE FAILING OSDS  
☐ UPGRADE EXISTING OSDS

#### BUILDING:

- ☒ RESIDENTIAL WITH 3 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE  
☐ COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- ☐ YES  
☒ NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

SIGNATURE OF APPLICANT

DATE

AVP 565597

#2

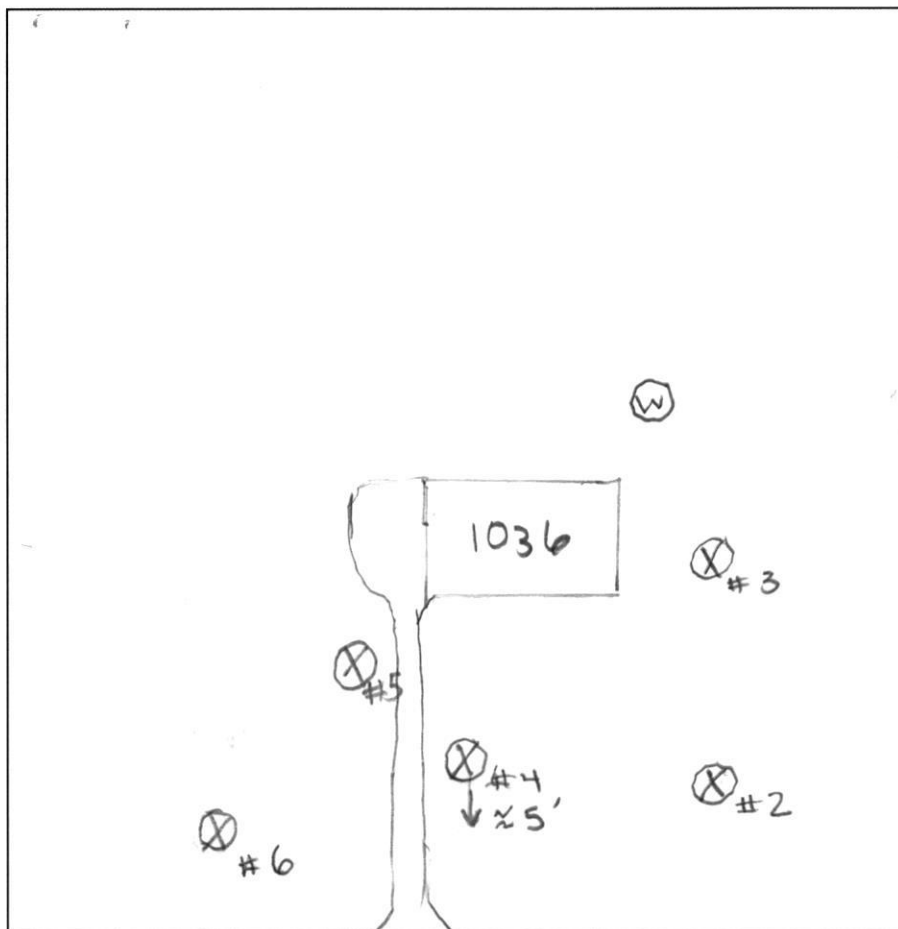
0.6' brl sbk  
Red br cl sbk  
~ 4' yel. red sl pl  
2-5' quartz  
br yel fsl pl  
12.5'

#3

0.5' brl sbk  
Red br cl  
3' yellowish red pl  
br yel sl pl  
12'

#4

0.6' brl sbk  
Red br cl  
3' yellowish red pl  
sl  
13'



1036 Taylor Park Road

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/29/19	2	3.8/12.5	8:59	- Too Long	-	-	F
	↳	5.5/12.5	9:48	9:49	9:52	3	P
	3	4'/12'	9:40	9:50	10:03	13	P
	↳	5'/12'	10:48	10:52	11:02	10	P
	4	4.8/13'	9:22	-	9:31	4.5	P
	5	4'/12'	10:30	10:31	10:33	2	P
	↓ 6	4'/12'	10:15	10:16	10:20	4	P

#5

0.6' Br L sbk  
Red br cl sbk  
3' yel. red to pl  
brownish yel  
12' sl

#6

0.6' Br L sbk  
Red br cl  
3' yellowish red sl  
12'

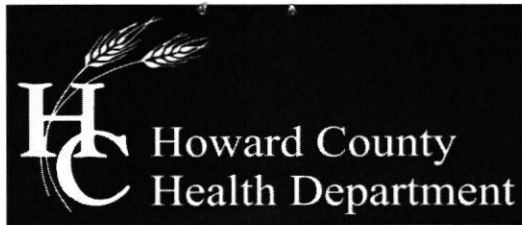
REMARKS Ms utility arrived onsite & gave the okay.

SANITARIAN Hank Oswald BACKHOE Jeff Allen OTHERS owner - B. Mothershead

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

note: Owner wishes to abandon old dry well. 1st attempt a hole #4 on side closest to dry well filled w/ sewage (hole was dug prior to inspectors arrival) moved down 5' from stake. O.K.  
bmothershead is e gmail . com



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**Maura J. Rossman, M.D., Health Officer**

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August 30, 2019

To: Brandon Mothershead & Kellie Riley (Homeowner); Fisher, Collins, & Carter (Engineer)

Percolation Test Report; 1036 Taylor Park Road, Sykesville, MD 21784

Percolation tests were conducted at 1036 Taylor Park Road, Sykesville, MD 21784 on August 29, 2019. Tests and profile descriptions were documented for 5 locations. All 5 test holes passed. Test hole 2 was relocated approximately 5 feet down slope of stake due to the proximity of existing drywell.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in the septic reserve area are represented by test locations having satisfactory soil condition. The area must be at least large enough to accommodate 3 systems for the planned residence.

The next step in the process is to have an engineer submit a percolation certification plan to confirm the design of the septic reserve area.

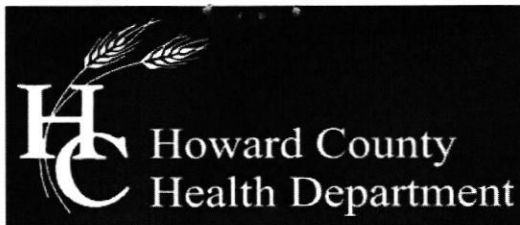
Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-1786 or by email [hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)

Respectfully,

*Hank Oswald*

Hank Oswald, L.E.H.S  
Bureau of Environmental Health  
Well & Septic Program

Attachment: Percolation Test Field Notes



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Maura J. Rossman, M.D., Health Officer

### SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 1036 Taylor Park Road

Subdivision: Motherhead / Riley Property Lot:           

Initial system: Application rate: 1.2 Effective area beginning depth: 4 Bottom maximum depth: 8 (4 & 2)  
1<sup>st</sup> Replacement: Application rate: 1.2 Effective area beginning depth: 4 Bottom maximum depth: 8  
2<sup>nd</sup> Replacement: Application rate: 1.2 Effective area beginning depth: 3 Bottom maximum depth: 8 (hole #3)

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is  $2D + W$  up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

Approved: Hank Oswald Date: 8/30/19 / 9/4/19



# LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- ⊙ DENOTES PROPOSED WELL
- DENOTES PASSED PERC

## SOILS LEGEND

SOIL	NAME	CLASS
GgB	Glenelg loam, 3 to 8 percent slopes	B
GgC	Glenelg loam, 8 to 15 percent slopes	B
GmB	Glenville silt loam, 3 to 8 percent slopes	C

## INITIAL SYSTEM

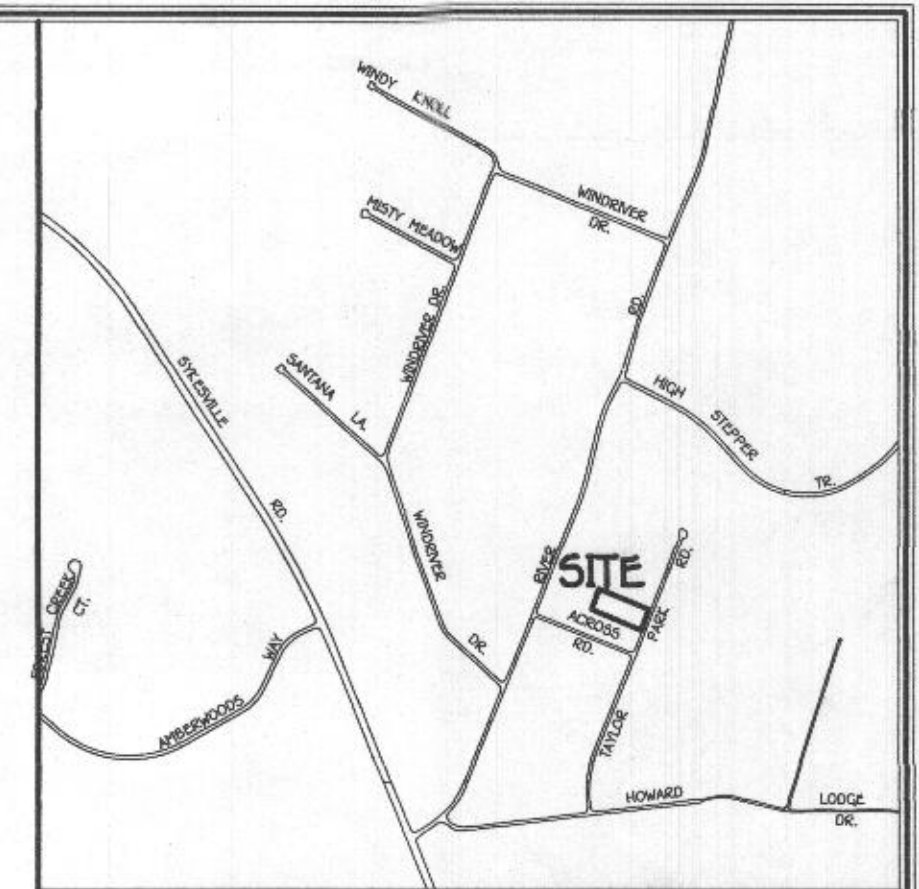
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 3 BEDROOMS  
 LOADING RATE = 3 BEDROOMS X 150 GPD/BEDROOM = 450 GPD  
 APPLICATION RATE = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 4 FEET  
 TRENCH DEPTH = 8 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 4 FEET  
 $SF \text{ OF DRAINFIELD} = 450 \text{ GPD} / 1.2 = 375 \text{ SF}$   
 $\text{COEFFICIENT OF REDUCTION OF TRENCH LENGTH} = (W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 4)) = 0.416$   
 $\text{TRENCH LENGTH} = 125 \text{ SF} \times 0.416 = 52.0 \text{ FEET}$   
 $\text{TRENCH SPACING} = 2D+W = ((2 \times 4) + 3) = 11' \text{ USE } 11'$

## 1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 3 BEDROOMS  
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 $\text{COEFFICIENT OF REDUCTION OF TRENCH LENGTH} = (W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 5)) = 0.357$   
 $\text{TRENCH LENGTH} = 125 \text{ SF} \times 0.357 = 44.63 \text{ FEET}$   
 $\text{TRENCH SPACING} = 2D+W = ((2 \times 5) + 3) = 13' \text{ USE } 13'$

## 2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 3 BEDROOMS  
 LOADING RATE = 3 BEDROOMS X 150 GPD/BEDROOM = 450 GPD  
 APPLICATION RATE = 0.8  
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET  
 TRENCH DEPTH = 8 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 5 FEET  
 $SF \text{ OF DRAINFIELD} = 450 \text{ GPD} / 0.8 = 562.5 \text{ SF}$   
 $\text{COEFFICIENT OF REDUCTION OF TRENCH LENGTH} = (W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 5)) = 0.357$   
 $\text{TRENCH LENGTH} = 187.50 \text{ SF} \times 0.357 = 66.94 \text{ FEET}$   
 $\text{TRENCH SPACING} = 2D+W = ((2 \times 5) + 3) = 13' \text{ USE } 13'$



VICINITY MAP  
 SCALE: 1" = 1200'

## GENERAL NOTES:

- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 4,719 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
- ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARIES AND ALL EXISTING OR PROPOSED WELLS LESS THAN 200' DOWN/GRADIENT OF A SEPTIC SYSTEM AND/OR SEPTIC EASEMENT.
- ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- EXISTING WELL MUST BE ABANDONED AND A NEW WELL DRILLED PRIOR TO BUILDING PERMIT APPROVAL.
- TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 2' CONTOUR INTERVAL AND FIELD RUN IN THE SEPTIC AREA BY FISHER, COLLINS & CARTER, INC. ON OR ABOUT JULY, 2019.
- BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
- ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- DEED REFERENCE LIBER 3078 FOLIO 613.

PERC CERTIFICATION  
 I certify that the locations shown on field locations done under my direct supervision and are correct by professional knowledge and belief.  
 Signature of Professional Land Surveyor: Frank J. Manalacian II, Professional Land Surveyor No. 21467 Expires 07/14/21  
 Date: 7/3/19

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER

DATE

## OWNER

BRANDON P. MOTHERSHEAD  
 KELLIE DIANA RILEY  
 1036 TAYLOR PARK RD  
 SYKESVILLE MD 21784-5427

PERC CERTIFICATION PLAT  
 1036 TAYLOR PARK ROAD

TAX MAP #9  
 3RD ELECTION DISTRICT  
 SCALE: 1"=50'

PARCEL: 131  
 HOWARD COUNTY, MARYLAND  
 DATE: SEPTEMBER 3, 2019



# LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES PASSED PERC

## SOILS LEGEND

SOIL	NAME	CLASS
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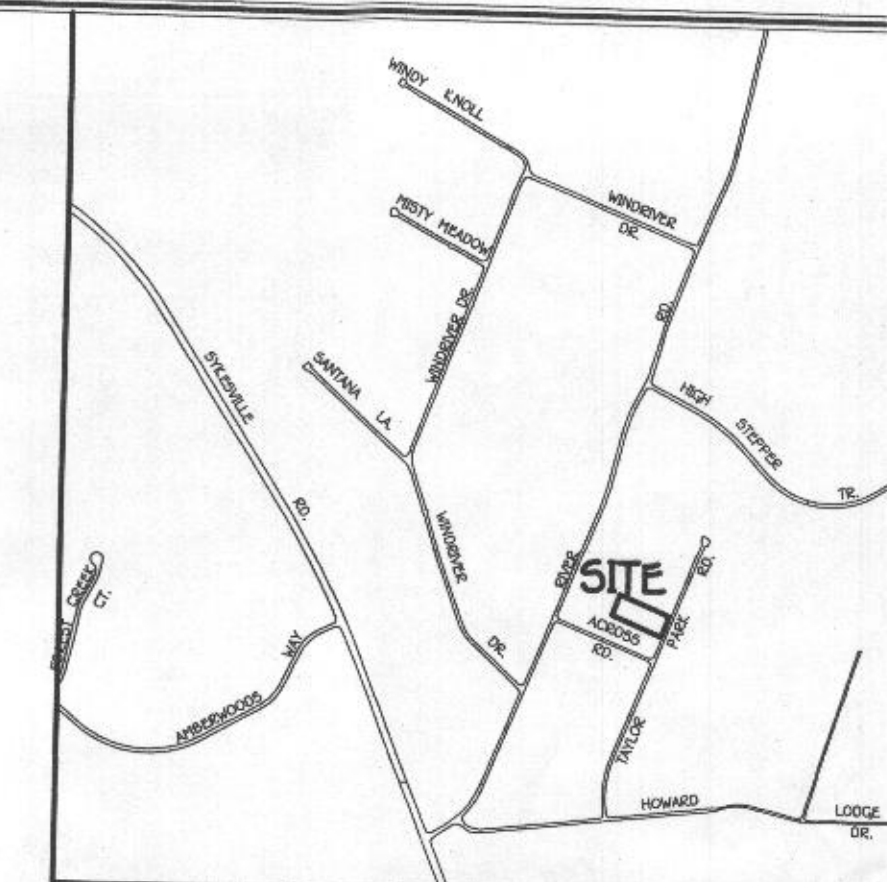
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 COUNTY HEALTH OFFICER: \_\_\_\_\_ DATE: \_\_\_\_\_

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