



**COMMONWEALTH OF VIRGINIA
VIRGINIA DEPARTMENT OF HEALTH**

*Roanoke County Health Department
1502 Williamson Rd NE, Civic Mall, 2nd Floor
Roanoke VA 24012
Phone: (540) 204-9764 Fax: (540) 857-7315*

October 21, 2011

Kent A. Wheeler
358 Mountain Edge Drive
Hardy VA 24101

Re: Sewage Disposal and Water Supply Construction Permits
Health Dept. ID# C11-180-0106, Tax Map Ref. 90.00-3-21,
Back Creek,

Enclosed is a copy of your Sewage Disposal System and Water Supply Construction Permits for the above referenced location for a 3-bedroom house with a sewage capacity of 450 Gallons Per Day (GPD). The Sewage Disposal System Construction Permit is to be given to your septic tank contractor and the Water Supply Construction Permit is to be given to your well contractor. They may begin construction of your sewage disposal system and well as soon as they receive these Permits.

Your well driller is to complete a Uniform Water Well Completion Report and submit it to this office. A satisfactory well water sample report, performed by a Virginia State Certified Laboratory, must be submitted to this office. After the Roanoke County Health Department receives these forms, and a final inspection is performed by a Specialist from this office, a Record Of Inspection-Nonpublic Drinking Water Supply System will be issued.

A Sewage Disposal System Construction Permit is valid for 18 months. If changes occur in the plan or site conditions within that time period, a new application and full fee must be submitted. If the original applicant has obtained a building permit or has started construction of the sewage disposal system within that time period, the Construction Permit can be revalidated. Sewage Disposal System and Water Supply Construction Permits are not transferable from one ownership to another.

Sincerely,


David Burris
Environmental Health Specialist Senior

kh

Enclosures

pc: Building Department

Private Well Construction Permit
Health Department ID Number: **C11-180-0106**

Owner / Agent Information

Owner: Kent A. Wheeler
358 Mountain Edge Drive
Hardy, VA 24101
Owner Phone: (540) 427-1860

Agent: Kent A. Wheeler
358 Mountain Edge Drive
Hardy VA 24101
Agent Phone: (540) 427-1860

Location Information

Subdivision: Back Creek
Property Address: 0 Windy Gap Drive
Locality: Roanoke County

Tax Map: **90.00-3-21**

Directions: 116 South Roanoke T.L. Aerospace Rd go 3/10 mi take first T.R. go straight

General Information

Well Class: **Class IIIB** Minimum Casing Depth: **50 feet** Minimum Grout Depth: **50 feet**

Comments:

In order to approve this well after it is completed, the owner must provide the Health department with either a Uniform Well Completion report or a GW-2 form and a satisfactory bacteriological report for coliform bacteria.

This permit is issued based upon a site evaluation conducted by David Burris, EHS on October 17, 2011.
See following page for Construction Drawing.

Notice: The Virginia Department of Health may revoke or modify this permit if, at a later date, it finds the conditions that formed the basis for issuing the permit do not substantially comply with the *Private Well Regulations*, 12 VAC 5-630-10 et seq., or if the well would threaten public health or the environment.

Septic Tank - Soil Absorption System Construction Permit

Health Department ID Number: **C11-180-0106**

Owner / Agent Information	
Owner: Kent A. Wheeler 358 Mountain Edge Drive Hardy, VA 24101 Owner Phone: (540) 427-1860	Agent: Kent A. Wheeler 358 Mountain Edge Drive Hardy VA 24101 Agent Phone: (540) 427-1860
Location Information	
Subdivision: Back Creek Property Address: 0 Windy Gap Drive Locality: Roanoke County Directions: 116 South Roanoke T.L. Aerospace Rd go 3/10 mi take first T.R. go straight	
General Information	
System Type: Septic Tank Only and Aggregate Trench Type of Property: Residential	Daily Flow: 450 gallons Number of Bedrooms: 3 maximum
Sewer Line	Distribution Box Information
3" or 4" Sch. 40 PVC or equivalent (cleanouts required at 50' to 60' intervals)	No. of Boxes: 1 No. of Outlets: 8
Conveyance Line / Force Main Information	Header Line Information
Method: Gravity Distribution Box Material: Minimum crush strength 1500# Pipe Diameter: 4" Minimum Slope: 6" per 100' (only for non-pump)	ASTM F405 pipe or better (1500 # crush or equivalent) Minimum slope 2" per 100'
Septic Tank - Inlet Outlet Structure	Percolation Lines and Absorption Area
Capacity: 1000 gallons The inlet structure shall be 1-2 inches higher than the outlet structure and shall extend 6-8 inches below and 8-10 inches above the normal liquid level. The outlet structure shall extend 35-40% below the normal liquid level and 8-10 inches above the normal liquid level. To comply with the maintenance requirements of 12 VAC 5-610-817 the septic tank must be provided with one of the following three options: 1) Inspection port, 2) Effluent filter, 3) Reduced maintenance tank	Slope: 2-4" per 100' Percolation Lines: 4" diameter Center to Center Spacing: 10' Installation Depth: 30" Depth of Aggregate: 13", Size of Aggregate: 0.5-1.5" Total Number of Laterals: 4 Laterals to be 100' long, x 3' wide Install 1200 Square Feet Total 50% Reserve Area Required for Future Repairs
Please Note: Divert roof drains and surface water from drainfield area. Drainfield shall be 5' minimum from property boundaries, 10' minimum from building foundations, and 20' minimum from below grade basements. Driveways and parking areas shall not be constructed over the drainfield unless the top of the gravel is deeper than 30 inches and the driveway is paved with Portland cement or bituminous concrete. Maintain 50' minimum from subsurface sewage disposal system to IIIB wells. Remove all maple trees and other hydrophyllic (water loving) plants from within 10' of drainfield area. Water Supply = proposed IIIB well.	

Construction Drawing HD ID #: C11-180-0106

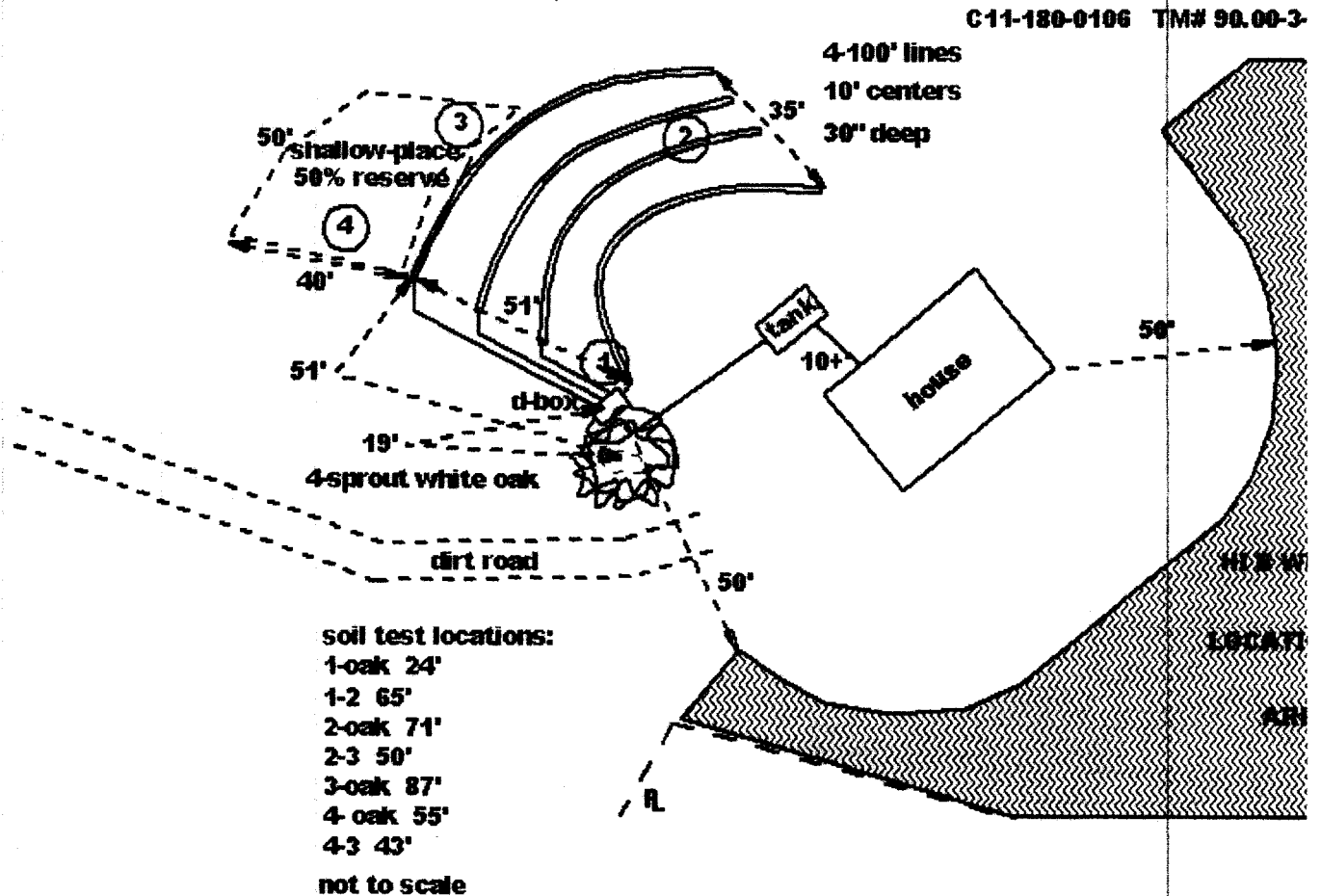
Owner Information

Kent A. Wheeler
358 Mountain Edge Drive
Hardy, VA 24101

Phone: (540) 427-1860

Construction Drawing

Schematic drawing of sewage disposal system and topographic features.



This sewage disposal system construction permit is null and void if conditions are changed from those shown on the application or construction permit. No part of any installation may be covered or used until inspected, corrections made if necessary and the system is approved. The inspection will normally be made by the system designer, who may be an AOSE, PE, or EHS. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon direction of the Department or the system designer.

System Design By: David Burris ; Site Evaluation By: David Burris

David Burris

October 21, 2011
Issue Date

April 21, 2013
Expiration Date

Site Evaluation Report

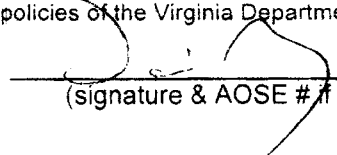
Health Department ID Number: C11-180-0106

Facility Information	
Facility Name:	90.00-3-21
Site Evaluator:	David Burris
HDID:	C11-180-0106

Evaluation Information	
Scheduled Evaluation:	October 17, 2011
Comments:	

Site Evaluation	
Date(s) of evaluation:	October 17, 2011
Evaluation method:	Hand Auger
Landscape Position:	Noseslope
Position Satisfactory?	Yes
Slope (range):	Min: 10% Max: 25%
Depth to rock:	>50 inches
Depth to seasonal water table:	>50 inches
Free water present?	No, at 0 to 0 inches
Depth to other limiting feature?	No, at to inches
Describe limiting feature:	
Soil texture group:	III
Estimated soil permeability:	50 mpi at: 32 inches
Measured soil permeability:	at: inches
Type of test:	
Length of site (on contour):	
Width of site (up and down slope):	

In accordance with § 32.1-163.5 of the *Code of Virginia* and 12 VAC 5-615-360, I hereby certify that this evaluation and all associated work, including but not limited to system design information where applicable, complies with and was conducted in accordance with 12 VAC 5-610-20 et seq. (the *Sewage Handling and Disposal Regulations*) and the policies of the Virginia Department of Health.


(signature & AOSE # if applicable)

If evaluated by a professional engineer,
indicate name and # of AOSE consulted:

Print name and title

Soil Profile Descriptions

Health Department ID Number: C11-180-0106

Facility Information	
Facility Name:	90.00-3-21
Site Evaluator:	David Burris
HDID:	C11-180-0106

verified
D.T.
10/21/11

	Horizon	Depth	Color	Texture	Comments	Texture Group
--	---------	-------	-------	---------	----------	---------------

Hole 1 17-Oct-2011 Hand Auger	A	0-3	Dark Yellowish Brown (10YR 4/4)	Loam		II (2)
	AB	3-12	Red (2.5YR 4/6)	Silty Clay Loam		III (3)
	B	12-26	Dark Red (10R 3/6)	Silty Clay Loam		III (3)
	BC	26-50	Red (2.5YR 4/6)	Silty Clay Loam		III (3)
	AR	50			ROCK	

Hole 2 17-Oct-2011 Hand Auger	A	0-4	Dark Yellowish Brown (10YR 4/4)	Loam		II (2)
	AB	4-9	Yellowish Red (5YR 5/6)	Clay Loam		III (3)
	B	9-30	Red (2.5YR 4/6)	Silty Clay Loam		III (3)
	C1	30-44	Red (2.5YR 4/6)	Clay Loam	SOME COS	III (3)
	C2	44-55	Yellowish Brown (10YR 5/6)	Sandy Clay Loam	SAPR.	II (2)
	AR	55			GRANITE	

Hole 3 17-Oct-2011 Hand Auger	A	0-5	Dark Yellowish Brown (10YR 4/4)	Loam		II (2)
	AB	5-13	Yellowish Red (5YR 4/6)	Clay Loam		III (3)
	B	13-27	Red (2.5YR 4/6)	Silty Clay Loam		III (3)
	BC	27-34	Yellowish Red (5YR 4/6)	Silty Clay Loam		III (3)
	C	34-65	Yellowish Red (5YR 4/6)	Loam	WHT-F, RD-F	II (2)

Hole 4 17-Oct-2011 Hand Auger	A	0-4	Dark Yellowish Brown (10YR 4/4)	Loam		II (2)
	AB	4-11	Yellowish Red (5YR 4/6)	Clay Loam		III (3)
	B	11-36	Red (2.5YR 4/6)	Silty Clay Loam		III (3)
	AR	36			ROCK	

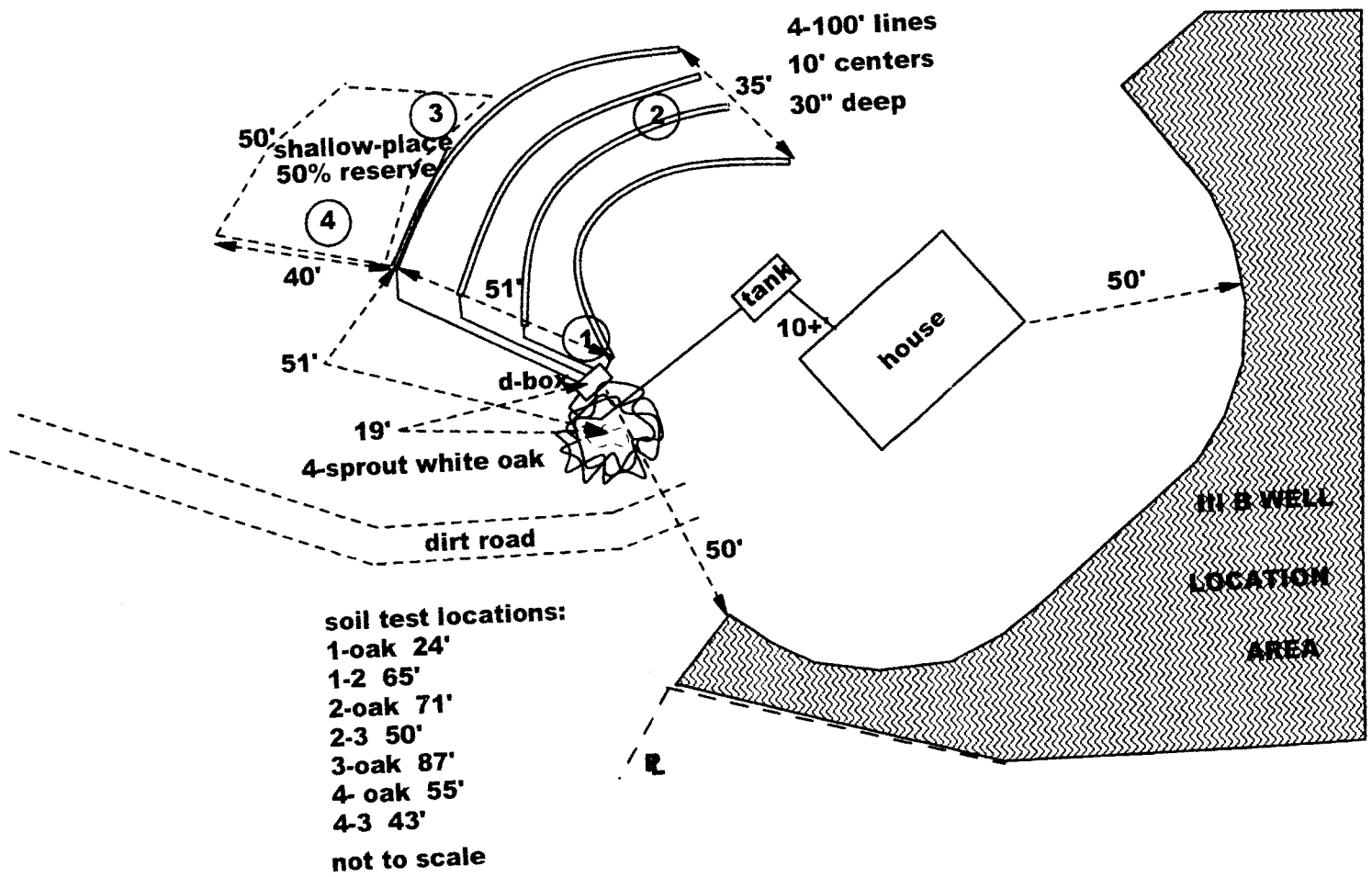
Site Sketch

Health Department ID Number: C11-180-0106

Facility Information

Facility Name:	90.00-3-21
Site Evaluator:	David Burris
HDID:	C11-180-0106

C11-180-0106 TM# 90.00-3-21



County Zoning Agricultural/Rural Low Density

AG1

Minimum Lot Area

w/ Private Sewer & Water:	65,340 sq. ft.
w/ Public Sewer or Water:	N/A sq. ft.
w/ Public Sewer & Water:	N/A sq. ft.

Minimum Street Frontage

w/ Private Sewer & Water:	150 ft.
w/ Public Sewer or Water:	N/A ft.
w/ Public Sewer & Water:	N/A ft.
Maximum W/D ratio:	1 to 5

360

Setback Requirements

Front Yard:	30 ft.
Side Yard:	20 ft.
Rear Yard:	25 ft.

Accessory Buildings

Side yard at Front Building Line	20 (2) ft.
Side yard at Rear Building Line	10 ft.
Rear Yard:	10 ft.

Allowable Coverage and Height

Main Building:	15 %
Maximum Lot Coverage:	30 %
Accessory Building Coverage:	N/A %
Maximum Building Height:	45 ft.
Max Accessory Bldg. Height:	45 ft.

Notes: ()

(1) Where the principal structure is more than 150 feet from the street, accessory buildings may be located 150 feet from the street and 25 feet from any side property line

(2) Where the principal structure is more than 150 feet from the street, accessory buildings may be located 150 feet from the street and 20 feet from any side property line

(3) Accessory buildings must be located behind the front building line

(4) Accessory structures may have a maximum height of 25 feet if they comply with the setback requirements for principal structures

(5) Principal structures : when adjoining property is zoned R-1 or R-2, 45 feet, including rooftop mechanical equipment. Maximum height may be increased provided each required side and rear yard adjoining R-1 or R-2 districts is increased 2 feet for each foot of additional foot in height over 45 feet. In all locations height is unlimited unless otherwise restricted by this ordinance

(6) or 20 feet if the parking is located behind the front building line

(7) Must be 10 feet on any one side, with a combined total on both sides of at least 25 feet

(8) Actual height of principal structure

(9) All structures: when adjoining property is zoned Residential, 45 feet, including rooftop mechanical equipment. Maximum height may be increased provided each required side and rear yard adjoining R-1 or R-2 districts is increased 2 feet for each foot of additional foot in height over 45 feet. In all locations height is unlimited unless otherwise restricted by this ordinance