

# JHSTUART

CIVIL/ENVIRONMENTAL ENGINEERS

August 30, 2017

Town of Charlotte  
Attn: Joe Rheame, Zoning Administrator  
P.O. Box 119  
Charlotte, Vermont 05445

Re: Andrew D. Zins 1654 Prindle Road

Dear Joe:

Attached is an application and plans for proposed construction by the above applicant. Copies of these materials have also been forwarded by email in PDF format.

The project consists of several new buildings that include an accessory dwelling building, a future office, and a future barn. The property is served by an existing drilled well and a mound system both of which were constructed in 2000.

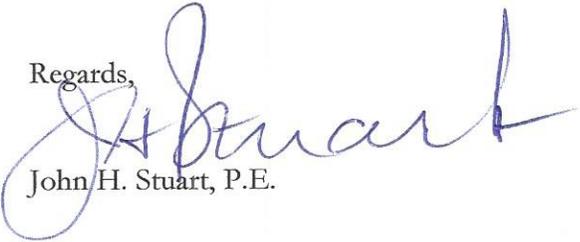
The mound was approved and constructed to accept four (4) bedrooms; however, the house has only three (3) bedrooms. The design criteria in 2000 required 150 gallons per day (GPD) per bedroom or a total of 600 GPD. Based on the existing house bedroom configuration the mound system has an excess capacity of 150 GPD.

The existing well is rated at 6 gallons per minute (GPM) which is sufficient for the existing dwelling. The additional construction requires an instantaneous demand of 5 GPM per connection; therefore, the water system must be capable of delivering 10 GPM to the house and accessory building. Since that quantity exceeds the well capability, a storage tank and a larger hydropneumatic tank are included in the project plans.

The excess mound capacity will be allocated entirely to the accessory dwelling building and is planned for immediate construction. The office and barn to occur at a later date and since they are for the exclusive use of the applicant, no addition wastewater flows are required.

Feel free to contact me if you have any questions or comments.

Regards,

  
John H. Stuart, P.E.

JHS/ov10

# Drinking Water & Groundwater Protection Division - Permit Application

## Wastewater System & Potable Water Supply

**For Office Use Only:**

Application#	PIN#	Date Complete Application Received

**General Information:**

**IMPORTANT:** This application form **IS NOT** intended to be printed and filled out by hand. Because of the dynamic nature of the form, it is required that the information be typed directly into the fields using a computer.

In most cases a licensed designer will be required for your project and to help complete this application form. There are also line-by-line instructions available to assist with completing this form: <http://dec.vermont.gov/sites/dec/files/dwgwp/wastewater/pdf/WWAppInstructionsRules.pdf>.

**NOTE:** We strongly suggest referring to the application instructions while completing this application form.

**A. Prior Permits**

1 Please enter any prior or related WW permit or Act 250 permit number(s) (if applicable)

None

**B. Project Name**

1 Please enter a name that can be used as a reference for the project

1654 Prindle Road

**C. Landowner Information****Landowner Name**

1 Legal Entity/Organization Name (if the Landowner is a legal entity or organization rather than a person)

2 Landowner First Name (and Middle Initial if appropriate)

Andrew

3 Landowner Last Name

Zins

**Landowner Contact Information**

4 Mailing Address Line 1

1654 Prindle Road

5 Mailing Address Line 2

6 City

Charlotte

7 State/Province

VT

8 Country

United States

9 Zip/Postal Code

05445

10 Email Address

andrewdzins@msn.com

11 Telephone

412-398-1826

**Landowner Certifying Official Information (if applicable)**

12 First Name (and MI if appropriate)

13 Last Name

14 Title

15 Email Address

16 Telephone

Add Another Landowner

**D. Primary Contact Information (if other than Landowner)**

1 First Name (and Middle Initial if appropriate)

John

2 Last Name

Stuart

3 Company/Organization Name

JH Stuart Associates, Inc.

4 Mailing Address Line 1

P.O. Box 8367

5 Mailing Address Line 2

6 City

Essex

7 State/Province

VT

8 Country

United States

9 Zip/Postal Code

05451

10 Email Address

john@jhstuartassociates.com

11 Telephone

802-878-5171

**E. Lot(s) Affected by this Project**

1 Please list any and all proposed lots or existing parcels that are directly affected by this project. If this application is an amendment to a previous project, please use consistent lot numbers.

(a) Existing or Proposed Lot	(b) Lot Number	(c) SPAN	(d) Parcel ID	(e) Acres	X
Existing	1654 Prindle Road	138-043-10317	00020-1654	96.45	
(f) Book Number (ref. 1)	(g) Page Number(s) (ref. 1)	(h) Book Number (ref. 2)	(i) Page Number(s) (ref. 2)	(j) Book Number (ref. 3)	(k) Page Number(s) (ref. 3)
(l) Comments					

Add Another Lot

**F. Project Information**

## 1 Project Description

The water and wastewater systems approved in 2000 provided for 600 gallons per day; however, the house was constructed with three (3) bedrooms. The project involves the construction of additional buildings to include an accessory building having one (1) bedroom as well as a future office and future barn (both for the exclusive use of land owner). Using the values provided in the EPRs, the total water and wastewater flows will be 560 GPD. The mound system is sufficient to accept the planned land use. The water system will be updated to include a storage tank so that the system can deliver the instantaneous demand (10+ GPM) to the expanded distribution system.

2 Total Acreage of Property	3 Town (primary)	4 Town (secondary - if located in more than one town)
96.45	Charlotte	

## 5 Street Address (911 address if available, otherwise a brief description of the location)

1654 Prindle Road

## 6 Center of property GPS coordinates - Enter the approximate center of the project coordinates using GPS set for NAD83 or as derived from a map (map must be based on NAD83).

(a) Latitude (in decimal degrees to five decimal places, ex. 44.38181°)	(b) Longitude (in decimal degrees to five decimal places, ex. -72.31392°)
	73.16449

## 7 If someone from the Drinking Water &amp; Groundwater Protection Division's Regional Office has been to the property for a site visit, please indicate who visited the property and the date of the visit.

(a) Name of Staff Person	(b) Date of Visit (m/d/yyyy)

**G. Application Fee**

Please refer to the [Application Fee Schedule](#) prior to selecting the Application Fee Code for your project below.

1 Select Application Fee Code	2 Fee Amount Due
(RO1) 560 gpd or less	\$306.25

**H. Wastewater System and Water Supply Component Details****Component Information:**

**PLEASE READ:** The purpose of this section is to provide supplementary information for system components when there are proposed changes to existing conditions or previous permits. In the case that the application includes site plans, the component names on this worksheet must match those on the site plans. If there is a prior permit, the component names must be labeled consistent with plans from the prior permit(s). It is **\*required\*** that, at a minimum, the following component types must be included for each application: final disposal; pre-treatment (if applicable); building unit(s); water treatment (if applicable); and water source. To add components after the third entry, click the green button labeled "Add Another Component". You may also insert components between components you've already added by clicking the "Insert Component Between" button. For large projects with many components, you may consider using the "Show/Hide Component Set Separator" button to separate sets (or groups) of connected components by naming each set. For additional instructions, please review the appendix to the application instructions: <http://dec.vermont.gov/sites/dec/files/dwgwp/wastewater/pdf/WWApplInstructionsRules.pdf>.

**Component 1 Information**

Show/Hide Component Set Separator

Remove This Component

Component Group Type	(WW) Final Disposal	Component Type	Mound
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--Component 1 Details--

Component Name	Mound system		
Lot # Physical Location	1654 Prindle Road	Change Type	Connection to Existing System
WW Design Flow	560	Changes	Add accessory building, reduce number of approved bedrooms in existing house. Final design flow 560 GPD.
I/A Dispersal Type		Comments	
Variance Requested	<input type="checkbox"/>		
Design Approach (select all that apply, press Ctrl and Click to select multiple)	Alternative Toilets Constructed Wetlands Existing - Unknown Filtrate Flow equalization No discharge (other than holding tank) Performance based Prescriptive Store and dose Subsurface drip distribution Time dosing Wastewater strength		
Manufacturer			
Model Name			
Model Number			
As-Built Latitude	44.29416		
As-Built Longitude	73.16420		

Insert Component Between

**Component 2 Information**

Show/Hide Component Set Separator

Remove This Component

Component Group Type	(WW) Conveyance	Component Type	STEP
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**--Component 2 Details--**

Component Name	Septic tank/pump station		
Lot # Physical Location	1654 Prindle Road	Change Type	Connection to Existing System
Municipal WW System		Changes	Add accessory building, reduce number of approved bedrooms in existing house. Final design flow 560 GPD.
		Comments	

Insert Component Between

**Component 3 Information**

Show/Hide Component Set Separator

Remove This Component

Component Group Type	Building	Component Type	Building-Unit
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**--Component 3 Details--**

Component Name	Dwelling		
Lot # Physical Location	1654 Prindle Road	Change Type	Connection to Existing System
WW Permitted Flow	600	Changes	Add accessory building, reduce number of approved bedrooms in existing house. Final design flow 560 GPD.
WS Permitted Flow	600	Comments	
Flow Basis	Rule		

Insert Component Between

**Component 4 Information** Show/Hide Component Set Separator Remove This Component

Component Group Type  Component Type

-Component 4 Details-

Component Name <input type="text" value="Drilled well and storage tank"/>	
Lot # Physical Location <input type="text" value="1654 Prindle Road"/>	Change Type <input type="text" value="Connection to Existing System"/>
Source Type <input type="text" value="Drilled/Driven Well"/>	Changes <input type="text" value="Add accessory building, reduce number of approved bedrooms in existing house. Final design flow 560 GPD."/>
WS Design Flow <input type="text" value="560"/>	Comments <input style="width: 100%; height: 40px;" type="text"/>
Allocation Approval <input type="checkbox"/>	
Construction Approval <input type="checkbox"/>	
Variance Requested <input type="checkbox"/>	
As-Built Latitude <input type="text"/>	
As-Built Longitude <input type="text"/>	

**I. Project Plan Reference**

1 Please provide the following information for all water supply and wastewater system plans being submitted.

(a) Sheet#	(b) Title	(c) Plan Date	(d) Last Revision Date
1 of 2	Andrew D. Zins Water and Wastewater Plan	8/12/2017	<input type="button" value="X"/>
2 of 2	Andrew D. Zins Water and Wastewater Details	8/12/2017	<input type="button" value="X"/>

**J. Project Scoping Questions**

- 1 Does this project involve the replacement of a failed wastewater system?  Yes  No
- 2 Does this project involve the replacement of a failed water supply?  Yes  No
- 3 Does this project involve construction within the buffer for a Class 2 Wetland?  Yes  No
- 4 Does this project involve construction within a river corridor?  Yes  No
- 5 Is the property within 250 feet of the mean water level of lakes greater than 10 acres in size?  Yes  No
- 6 Will the project require a public water supply permit?  Yes  No
- 7 Is any portion of the proposed wastewater system located in a Water Source Protection Area (SPA) as designated by the Drinking Water & Groundwater Protection Division?  Yes  No
- 8 Does this project require an Underground Injection Control Permit?  Yes  No
- 9 Is this project located in a Class A Watershed?  Yes  No
- 10 If this project is in a Class A Watershed, does the design flow for the project exceed 1,000 gpd or is the project located on the same lot as other buildings, structures, or campgrounds where the total design flow for the lot is greater than 1,000 gpd?  Yes  No  NA
- 11 Are any of the proposed water sources located within 1 mile of a hazardous waste site as designated by the Waste Management & Prevention Division and identified on the Agency mapping website (if Yes, please submit additional information on the site)?  Yes  No

**K. Consultant/Designer Certification**

**Consultant/Designer Certification & Copyright License**

"I hereby certify that in the exercise of my reasonable professional judgment, the design-related information submitted with this application is true and correct, and that the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules. As the individual who prepared this application, including all documents that are marked as copyrighted, I hereby grant a non-exclusive, limited license to the State to allow the documents to be made available for public review and copying in order to properly implement and operate the permitting programs for Wastewater Systems and Potable Water Supplies, and for no other purposes. As a condition to this license, the State agrees that it will not make any changes to such documents, nor will the State delete any copyright notices on such documents."

WW/WS Designer	JH Stuart, P.E.		08/30/17 <input type="button" value="X"/>
Consultant/Designer Role	Print Consultant/Designer Name	Consultant/Designer Signature	Signature Date

Add Second Consultant/Designer

**L. Signatures & Acknowledgements of Landowner(s)**

*This application must be signed by each Landowner listed on the property deed or by individuals with legal authority to sign on behalf of each Landowner. In order to insure compliance with the requirements of the regulations administered by the Department of Environmental Conservation, Drinking Water and Groundwater Protection Division, it may be necessary to visit the property. As this would involve a Department employee entering private property, we request your approval to do so.*

If we do visit your property, do you have any special instructions?

*"By signing this application, I certify that I am a landowner listed on the property deed or that I have the legal authority to sign on behalf of the landowner. I understand that by signing this application I am granting permission for the Department employees to enter the property, during normal business hours, to insure compliance of the property with the applicable rules of the Department.*

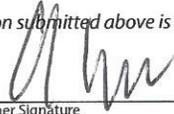
*I also understand that I am not allowed to commence any site work or construction on this project without written approval from the Department of Environmental Conservation.*

*If my project utilizes an Innovative/Alternative System or Product, I have received a copy of the Drinking Water & Groundwater Protection Division's approval letter and agree to abide by the conditions of the approval.*

*I also certify that to the best of my knowledge and belief the information submitted above is true, accurate and complete."*

Andrew D Zins

Print Landowner Name



Landowner Signature

8-31-17

Signature Date



Add Landowner Signature Block