

1600-138-1506

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CHARLOTTE
PLANNING & ZONING



Land Surveyors – Boundary Consultants
Water & Wastewater System Designers
P.O. Box 388 – 25A West Street
Bristol, Vermont 05443

Ronald L. LaRose, L.S.

Kevin R. LaRose, L.S.

April 23, 2015

Town of Charlotte
Attn: Ms Jeannine McCrumb
PO Box 119
Charlotte, Vermont 05445

RE: Hardy Property, Mutton Hill Drive, Charlotte

Dear Ms McCrumb:

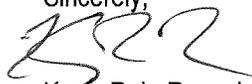
We are writing on behalf of Scott Hardy in regard to his proposed two-lot subdivision located off of Mutton Hill Drive.

Specifically, Mr. Hardy is proposing to create two parcels from a 10.09-acre parcel that is presently occupied by a three-bedroom single-family residence. We performed test pits on the subject property with Spencer Harris on January 7, 2015. We are proposing to develop the new lot with a four-bedroom single-family residence that will be served by a mound-type disposal system and a drilled well. As part of this application, we are utilizing an already designed approved designated replacement septic area for the existing Lot 1. Also, there are several Vermont DEC hazardous sites located within one mile of the project. Please see attached information.

For your review, we have included the following:

1. Wastewater System & Potable Water Supply Permit Application;
2. Permit fee of \$1,000.00; ~~\$500.00~~
3. Site Plan & Detail Sheet (two copies each);
4. Test pit logs;
5. Pump Curve;
6. Performance-based Calculations;
7. Act 145 Certification.

Mr. Hardy is looking forward to your review of his application and subsequent issuance of a permit. If you have any questions, please do not hesitate to give me a call.

Sincerely,

Kevin R. LaRose, L.S.
Licensed Class B Designer

Cc: Scott Hardy

Land Surveying ♦ Topographical Surveys ♦ State & Local Permitting ♦ Septic Design ♦ Land Use Planning

p.802.453.3818
f.802.329.2138

www.larosesurveys.com
info@larosesurveys.com

Drinking Water & Groundwater Protection Division - Permit Application Wastewater System & Potable Water Supply



For Office Use Only:

Application# WW-138-1506	PIN#	Date Complete Application Received
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Authority:

10 V.S.A. Chapter 64, the Environmental Protection Rules, Chapter 1, Wastewater System & Potable Water Supply Rules, and Chapter 21, Water Supply Rules, Appendix A. Part 11 - Small Scale Water Systems.

General Information:

The organization and/or content of this form may not be altered, however, the form is designed to expand to allow additional information to be entered. Changes in the organization and/or content of the form may result in an invalid application or permit.

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.

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

Part I Applicant (Landowner) & Project Contact Information

Section A - Applicant Details (if Landowner is an Individual or Individuals)

1 Last Name Hardy		2 First Name (and Middle Initial if appropriate) Scott	
3 Mailing Address Line 1 1474 Pearson Road		4 Mailing Address Line 2	
5 Town/City New Haven	6 State/Province VT	7 Country United States	8 Zip/Postal Code 05472
9 Email Address			10 Telephone

Remove This Applicant

Add Another Applicant

Section B - Applicant Details (if Landowner is other than an Individual or Individuals, e.g. Corporations, Homeowner's Associations, etc.)

1 Registered Legal Entity or Organization Name			2 Telephone
3 Mailing Address Line 1			4 Mailing Address Line 2
5 Town/City	6 State/Province	7 Country United States	8 Zip/Postal Code

Certifying Official

The Certifying Official must be a person who has signatory authority for the legal entity or organization that is the Applicant.

9 Certifying Official Last Name	10 Certifying Official First Name (and MI if appropriate)
11 Certifying Official Title	
12 Certifying Official Email Address	13 Telephone

Remove This Applicant

Add Another Applicant

Section C - Primary Contact Information (if other than Applicant)			
1 Last Name		2 First Name (and Middle Initial if appropriate)	
3 Mailing Address Line 1		4 Mailing Address Line 2	
5 Town/City	6 State/Province	7 Country	8 Zip/Postal Code
		United States	
9 Email Address			10 Telephone

Section D - Building/Business Owner Information			
1 Last Name		2 First Name (and Middle Initial if appropriate)	
3 Mailing Address Line 1		4 Mailing Address Line 2	
5 Town/City	6 State/Province	7 Country	8 Zip/Postal Code
		United States	
9 Email Address			10 Telephone

Part II Certifying Designer(s) Information			
1 Designer Last Name		2 Designer First Name (and Middle Initial if appropriate)	
LaRose		Kevin R.	
3 Designer License#	4 Company Name		
443	LaRose Surveys, PC		
5 Mailing Address Line 1		6 Mailing Address Line 2	
PO Box 388			
7 Town/City	8 State/Province	9 Country	10 Zip/Postal Code
Bristol	VT	United States	05443
11 Email Address			12 Telephone
larosesurveys@gmail.com			453-3818
13 Designer Role(s) (check all that apply)			
<input checked="" type="checkbox"/> Water Supply Designer			
<input checked="" type="checkbox"/> Wastewater Disposal System Designer			
Remove This Designer			

Add Another Designer

Part III Property Location Information	
Section A - Property Location	
1 Please provide the property Town and the property address or a brief description of the location.	
(a) Town or City	(b) Street or Road Location
Charlotte	Mutton Hill Drive

Section B - Center of Property GPS Coordinates	
1 Enter the approximate center of property 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 °)
N <input style="width: 80px;" type="text" value="44.32369"/> °	W (-) <input style="width: 80px;" type="text" value="73.23027"/> °

Part IV Project Information

Section A - General Project Information & Questions

1 Project Name (if applicable)	2 Total Acreage of Property
<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text" value="10.09"/>

3 Business Name (if applicable)

4 Detailed Project Description

Two lot subdivision of an existing, improved lot (three-bedroom SFR). Both lots will have on-site septic and water; Proposed lot will be for a four-bedroom SFR

5 (a) Were all existing buildings or structures, campgrounds, and their associated potable water supplies and wastewater systems substantially completed before January 1, 2007? Yes No

(b) Were all existing improved and unimproved lots in existence before January 1, 2007? Yes No

6 Does this application include subdividing the property? Yes No

7 Has anyone from the Drinking Water & Groundwater Protection Division's Regional Office been to the property? Yes No

If Yes, enter the staff person's name and the date of the visit.

(a) Name of Staff Person	(b) Date of Visit (m/d/yyyy)
<input style="width: 80%;" type="text" value="Spencer Harris"/>	<input style="width: 80%;" type="text" value="1/7/2015"/>

8 Will any construction occur within 50 feet of a wetland boundary, mapped or designated? Yes No

If Yes, contact the Wetlands Program of the Watershed Management Division at (802) 338-4835.

9 Will more than one acre be disturbed during the entire course of construction, including all lots and phases? Yes No

If Yes, contact the Stormwater Program of the Watershed Management Division at (802) 241-4320.

10 Will there be any stream crossings by roads, utilities, or other construction? Yes No

If Yes, contact the River Corridor Mgmt. Program of the Watershed Management Division at:

Central & Northwest Vermont	(802) 879-5631
Southern Vermont	(802) 786-5906
Northeastern Vermont	(802) 751-0129

11 Is the project located in a special flood hazard area as designated on the flood insurance maps prepared for a municipality by the Federal Emergency Management Agency? Yes No

If Yes, show the special flood hazard area limits on the site plan.

12 Act 250: Has the Applicant (Landowner) subdivided any other lots of any size within a five mile radius of this subdivision, or within the environmental district within the last five years? Yes No

If Yes, enter the town(s) and the associated number of lots in the table below:

	(a) Town	(b) Number of Lots
X	<input style="width: 90%;" type="text"/>	<input style="width: 90%;" type="text"/>
<input type="button" value="Add Another Town/Lot"/>		

13 Is there any prior Act 250 jurisdiction on the tract of land? Yes No

If Yes, enter the Act 250 permit number:

(a) Act 250 Permit Number

Section B - Project Deed Reference

1 Please provide the Town, Parcel ID, Book, and Page reference for the current landowner's deed(s) to this property:

	(a) Town	(b) Parcel ID	(c) Book	(d) Page(s)
X	Charlotte	M05B03L08-1	216	334

Add Another Deed Reference

Section C - Project Plan Reference

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

	(a) Sheet#	(b) Title	(c) Plan Date	(d) Plan Revision Date
X	1	A site plan for a subdivision of lands of Scott Hardy	4/16/2015	
X	2	A detail sheet for a subdivision of lands of Scott Hardy	4/16/2015	

Add Another Plan Reference

Section D - Existing Project Lot/Building Details

Please provide the existing project details. This section is used to describe what is existing for the project. For example, if you are subdividing an undeveloped 21-acre parcel, you would list the existing parcel. If you are revising the boundary lines of two commercial lots in an industrial park, and constructing an addition to an existing building you would list the existing lot numbers, existing acres, existing buildings, existing uses, construction date(s), prior permits, and answer the compliance questions.

1 Lot#	2 Lot Size (acres)	3 Existing Use of the Lot
1	10.09	Residential

4 Provide the following information for each building on the lot:

	(a) Building ID	(b) Existing Use	(c) Date Construction of Building Substantially Complete	(d) Prior Permits	(e) In compliance with existing permits?
X	1	Residential	pre-2000	N/A	<input type="radio"/> Yes <input type="radio"/> No

Add Another Building

Remove This Lot

Add Another Lot

Section E - Proposed Project Lot/Building Details

This section is used to describe what you are proposing to do in this project. For example, if you were going to create 4 lots for construction of single family residences, you would list each lot, proposed acreage, proposed buildings, and proposed use.

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
1	5.07	SFR

4 Is the lot being created as part of a subdivision? Yes No

5 Are you requesting that the Blood, Marriage, or Civil Union special fee be applied to this lot? Yes No

6 If the lot is exempt, please indicate the specific exemption from the Wastewater System and Potable Water Supply Rules?

7 Provide the following information for each building on the lot:

	(a) Building ID	(b) If building is exempt, indicate exemption	(c) Construction or increased flow?	(d) Proposed Use
X	1		<input type="checkbox"/>	SFR

Add Another Building

Remove This Lot

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
2	5.02	SFR

4 Is the lot being created as part of a subdivision? Yes No

5 Are you requesting that the Blood, Marriage, or Civil Union special fee be applied to this lot? Yes No

6 If the lot is exempt, please indicate the specific exemption from the Wastewater System and Potable Water Supply Rules?

7 Provide the following information for each building on the lot:

	(a) Building ID	(b) If building is exempt, indicate exemption	(c) Construction or increased flow?	(d) Proposed Use
X	2		<input checked="" type="checkbox"/>	SFR

Add Another Building

Remove This Lot

Add Another Lot

Part V Water Supply Information

Section A - Water Supply Screening Questions

1 Are you proposing a new water supply or water service line or changes to a permitted but not constructed water supply or water service line for this project? Yes No

2 Are you proposing changes to an existing water supply or water service for this project (including changes to location, design flows, or operational change)? Yes No

3 Is there an existing connection to a water supply or water service line for this project? Yes No

Complete Part V if you answered Yes to any of the above questions. A project with no existing or proposed water supply may skip to Part VI.

Section B - General Water Supply Questions

1 Does this project involve a failed water supply? Yes No

2 Will any of the proposed water sources serve 25 or more people or have 15 or more service connections? Yes No

If Yes, the applicant must contact the Drinking Water & Groundwater Protection Division at (802) 241-3400 for source, construction and an operating permit.

3 Are any of the existing or proposed water sources located within a special flood hazard area? Yes No

4 Are any of the existing or proposed water sources located within a floodway? Yes No

5 Are any of the proposed water sources located within 1 mile of a hazardous waste site as designated by the Waste Management Division and identified on the Agency mapping website? Yes No

If Yes, please submit additional information on the site. The Waste Management Division can be reached at (802) 241-3888.

6 Does this project require an approval letter from the Drinking Water & Groundwater Protection Division for the construction of a public water system, municipal water line extension over 500 feet, or hydrants or sprinkler systems? Yes No

If Yes, please submit a copy of the approval letter from the Drinking Water & Groundwater Protection Division.

7 Does the proposed or existing water supply(ies) use a water treatment device to obtain compliance with the quality requirements in the Water Supply Rule? Yes No

If Yes, please submit additional information regarding the constituent(s) that exceeds the standards and plans, details, and specifications of the treatment device.

8 Is any portion of the proposed water supply located in or near a Water Source Protection Area as designated by the Drinking Water & Groundwater Protection Division? Yes No

If in areas of known interference issues, contact the Drinking Water & Groundwater Protection Division at (802) 241-3400.

Section C - Individual Water Supply Details

Please provide the following information for each of the existing and proposed water supply(ies) serving a building or structure, or campground on the property.

1 Water Supply Name/Identifier <input style="width:95%;" type="text" value="Lot 1"/>	2 Water Supply Owner (if not Applicant) <input style="width:95%;" type="text"/>
3 Water Source Type <input style="width:95%;" type="text" value="Non-Public Drilled Bedrock Well"/>	4 Type of Change to Supply <input style="width:95%;" type="text" value="No Change"/>

5 Lots/Buildings Served by this Water Supply System

	(a) Lot#	(b) Building ID	(c) Type of Change to the Building's Supply	Design Flows (Gallons Per Day)			(g) Rule or Meter Based Flows
				(d) Existing	(e) Change	(f) Total	
X	<input style="width:40px;" type="text" value="1"/>	<input style="width:40px;" type="text" value="1"/>	No Change	<input style="width:40px;" type="text" value="420"/>	<input style="width:40px;" type="text" value="0"/>	<input style="width:40px;" type="text" value="420"/>	Rule-based
<input style="width:95%;" type="button" value="Add Another Lot/Building Served by this Supply"/>				6	7	8	
				<input style="width:40px;" type="text" value="420"/>	<input style="width:40px;" type="text" value="0"/>	<input style="width:40px;" type="text" value="420"/>	

9 Is this water supply located off-lot? Yes No

10 Is this water supply shared? Yes No

If the water supply is located off-lot or shared, submit a copy of the agreement to provide an easement prior to construction.

11 Is a variance being requested for this water supply? Yes No

If Yes, please submit additional details related to the variance request.

1 Water Supply Name/Identifier <input style="width:95%;" type="text" value="Lot 2"/>	2 Water Supply Owner (if not Applicant) <input style="width:95%;" type="text"/>
3 Water Source Type <input style="width:95%;" type="text" value="Non-Public Drilled Bedrock Well"/>	4 Type of Change to Supply <input style="width:95%;" type="text" value="New System"/>

5 Lots/Buildings Served by this Water Supply System

	(a) Lot#	(b) Building ID	(c) Type of Change to the Building's Supply	Design Flows (Gallons Per Day)			(g) Rule or Meter Based Flows
				(d) Existing	(e) Change	(f) Total	
X	<input style="width:40px;" type="text" value="2"/>	<input style="width:40px;" type="text" value="2"/>	Connection to New System	<input style="width:40px;" type="text" value="0"/>	<input style="width:40px;" type="text" value="490"/>	<input style="width:40px;" type="text" value="490"/>	Rule-based
<input style="width:95%;" type="button" value="Add Another Lot/Building Served by this Supply"/>				6	7	8	
				<input style="width:40px;" type="text" value="0"/>	<input style="width:40px;" type="text" value="490"/>	<input style="width:40px;" type="text" value="490"/>	

9 Is this water supply located off-lot? Yes No

10 Is this water supply shared? Yes No

If the water supply is located off-lot or shared, submit a copy of the agreement to provide an easement prior to construction.

11 Is a variance being requested for this water supply? Yes No

If Yes, please submit additional details related to the variance request.

Section D - Water Supply Design Flows Summary Table

1 If the project includes more than one water supply, please list each water supply system and provide the total water supply design flows for the project. **IMPORTANT:** Please don't include systems that were identified in this Part on Section C, Line 4 as a "Replacement Area Designation" in this summary table.

	(a) Water Supply Name/Identifier	Design Flows (Gallons Per Day)		
		(b) Existing	(c) Change	(d) Total
X	<input style="width:400px;" type="text" value="Lot 1"/>	<input style="width:40px;" type="text" value="420"/>	<input style="width:40px;" type="text" value="0"/>	<input style="width:40px;" type="text" value="420"/>

X	Lot 2	0	490	490
	Add Another Water Supply	2	3	4
		420	490	910

Part VI Wastewater Disposal System Information

Section A - Wastewater Disposal System Screening Questions

- 1 Are you proposing a new or replacement wastewater disposal system, a new wastewater service line, or changes to a permitted but not constructed wastewater disposal system or wastewater service line for this project? Yes No
- 2 Are you proposing changes to an existing wastewater disposal system, replacement wastewater disposal system, replacement area, or wastewater service line for this project (including changes to location, design flows, or operational change)? Yes No
- 3 Is there an existing connection to a wastewater disposal system or wastewater service line for this project? Yes No

*Complete Part VI if you answered Yes to any of the above questions.
A project with no existing or proposed wastewater disposal systems may skip to Part VII.*

Section B - General Wastewater Disposal System Questions

- 1 Does this project involve a failed wastewater disposal system? Yes No
- 2 Do any of the systems require a curtain or dewatering drain as part of the design? Yes No
- 3 Is a hydrogeologic study required for this project? Yes No
- 4 For projects using soil-based wastewater systems having a total design flow that exceeds 1,000 gpd, is this project located in a Class A Watershed? Yes No NA

If Yes, indicate the Class A Watershed in which the system(s) is located:

(a) Class A Watershed Name

- 5 Are there any existing or proposed floor drains as part of this project? Yes No

If Yes, indicate where the floor drains will discharge:

(a) Floor Drain Discharge Point

- 6 If the project utilizes an Innovative/Alternative System or Product, has the applicant received a copy of the Drinking Water & Groundwater Protection Division's approval letter? Yes No NA

- 7 Is any portion of the proposed wastewater disposal system located in or near a Water Source Protection Area as designated by the Drinking Water & Groundwater Protection Division? Yes No

If Yes, contact the Drinking Water & Groundwater Protection Division at (802) 241-3400.

Section C - Individual Wastewater Disposal System Details

Please provide the following information for each of the existing and proposed wastewater disposal systems serving a building or structure, or campground on the property.

<p>1 Wastewater Disposal System Name/Identifier</p> <input style="width: 95%; height: 20px;" type="text" value="Lot 1 primary"/>	<p>2 Wastewater Disposal System Owner (if not Applicant)</p> <input style="width: 95%; height: 20px;" type="text"/>
<p>3 Wastewater Disposal System Type</p> <input style="width: 95%; height: 20px;" type="text" value="Mound"/>	<p>4 Type of Change to System</p> <input style="width: 95%; height: 20px;" type="text" value="No Change"/>

5 Lots/Buildings Served by this Wastewater Disposal System

	(a) Lot#	(b) Building ID	(c) Type of Change to the Building's System	Design Flows (Gallons Per Day)			(g) Total	(h) Rule or Meter Based Flows
				(d) Existing	(e) Change	(f) Infiltration		
X	1	1	No Change	420	0	0	420	Rule-based
			Add Another Lot/Building Served by this System	6	7	8	9	
				420	0	0	420	

10 Is this wastewater disposal system located off-lot? Yes No

11 Is this wastewater disposal system shared? Yes No
If the wastewater disposal system is located off-lot or shared, submit a copy of the agreement to provide an easement prior to initiation of construction.

12 Is a variance being requested for this wastewater disposal system? Yes No
If Yes, please submit additional details related to the variance request.

13 If this wastewater disposal system type is a connection to an Indirect Discharge System, please provide the Indirect Discharge System ID number.
 Indirect Discharge System ID Number

14 If this wastewater disposal system type is a connection to a municipal system, please select the town.
 Town

15 If this wastewater disposal system is a soil-based system, please select the design approach used.
 Design Approach Used

16 For soil-based systems, please check all that apply (Note: Store and dose does not apply to standard pump/pump chamber systems).
 Storage and Dose Filtrate Constructed Wetlands

17 If this is an Innovative/Alternative soil-based system, please select the system use type.
 Innovative/Alternative System Use Type

18 If this is an Innovative/Alternative soil-based system, please select the Innovative/Alternative system or product.
 Innovative/Alternative System or Product

Remove This Wastewater System

1 Wastewater Disposal System Name/Identifier <input type="text" value="Lot 1 replacement"/>	2 Wastewater Disposal System Owner (if not Applicant) <input type="text"/>
3 Wastewater Disposal System Type <input type="text" value="Mound"/>	4 Type of Change to System <input type="text" value="Replacement Area Designation"/>

5 Lots/Buildings Served by this Wastewater Disposal System

	(a) Lot#	(b) Building ID	(c) Type of Change to the Building's System	Design Flows (Gallons Per Day)			(g) Total	(h) Rule or Meter Based Flows
				(d) Existing	(e) Change	(f) Infiltration		
X	1	1	No Change	420	0	0	420	Rule-based
Add Another Lot/Building Served by this System				6	7	8	9	
				420	0	0	420	

10 Is this wastewater disposal system located off-lot? Yes No

11 Is this wastewater disposal system shared? Yes No
If the wastewater disposal system is located off-lot or shared, submit a copy of the agreement to provide an easement prior to initiation of construction.

12 Is a variance being requested for this wastewater disposal system? Yes No
If Yes, please submit additional details related to the variance request.

13 If this wastewater disposal system type is a connection to an Indirect Discharge System, please provide the Indirect Discharge System ID number.

Indirect Discharge System ID Number

14 If this wastewater disposal system type is a connection to a municipal system, please select the town.

Town

15 If this wastewater disposal system is a soil-based system, please select the design approach used.

Design Approach Used

16 For soil-based systems, please check all that apply (Note: Store and dose does not apply to standard pump/pump chamber systems).

Storage and Dose Filtrate Constructed Wetlands

17 If this is an Innovative/Alternative soil-based system, please select the system use type.

Innovative/Alternative System Use Type

18 If this is an Innovative/Alternative soil-based system, please select the Innovative/Alternative system or product.

Innovative/Alternative System or Product

Remove This Wastewater System

1 Wastewater Disposal System Name/Identifier <input type="text" value="Lot 2"/>	2 Wastewater Disposal System Owner (if not Applicant) <input type="text"/>
3 Wastewater Disposal System Type <input type="text" value="Mound"/>	4 Type of Change to System <input type="text" value="New System"/>

5 Lots/Buildings Served by this Wastewater Disposal System

	(a) Lot#	(b) Building ID	(c) Type of Change to the Building's System	Design Flows (Gallons Per Day)			(g) Total	(h) Rule or Meter Based Flows
				(d) Existing	(e) Change	(f) Infiltration		
X	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="Connection to New System"/>	<input type="text" value="0"/>	<input type="text" value="490"/>	<input type="text" value="0"/>	<input type="text" value="490"/>	<input type="text" value="Rule-based"/>
Add Another Lot/Building Served by this System				6	7	8	9	
				<input type="text" value="0"/>	<input type="text" value="490"/>	<input type="text" value="0"/>	<input type="text" value="490"/>	

10 Is this wastewater disposal system located off-lot? Yes No

11 Is this wastewater disposal system shared? Yes No

If the wastewater disposal system is located off-lot or shared, submit a copy of the agreement to provide an easement prior to initiation of construction.

12 Is a variance being requested for this wastewater disposal system? Yes No

If Yes, please submit additional details related to the variance request.

13 If this wastewater disposal system type is a connection to an Indirect Discharge System, please provide the Indirect Discharge System ID number.

Indirect Discharge System ID Number

14 If this wastewater disposal system type is a connection to a municipal system, please select the town.

Town

15 If this wastewater disposal system is a soil-based system, please select the design approach used.

Design Approach Used

16 For soil-based systems, please check all that apply (Note: Store and dose does not apply to standard pump/pump chamber systems).

- Storage and Dose Filtrate Constructed Wetlands

17 If this is an Innovative/Alternative soil-based system, please select the system use type.

Innovative/Alternative System Use Type

18 If this is an Innovative/Alternative soil-based system, please select the Innovative/Alternative system or product.

Innovative/Alternative System or Product

Remove This Wastewater System

Add Another Wastewater System

Section D - Wastewater Disposal Systems Design Flows Summary Table

1 If the project includes more than one wastewater disposal system, please list each system on this page and provide the total wastewater disposal design flows for the project. **IMPORTANT:** Please don't include systems that were identified in this Part on Section C, Line 4 as a "Replacement Area Designation" in this summary table.

		Design Flows (Gallons Per Day)			
	(a) Wastewater Disposal System Name/Identifier	(b) Existing	(c) Change	(d) Infiltration	(e) Total
X	Lot 1 primary	420	0	0	420
X	Lot 2	0	490	0	490
	Add Another Wastewater System	2	3	4	5
		420	490	0	910

Part VII Application Fees

1 Fee Amount

2 Fee Calculation Details

Part VIII Designer Certification & Copyright License

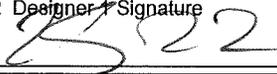
Section A - Certifying Designer 1 Certification & Copyright License

"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."

1 Check the design(s) you are certifying. This should be the same as the Designer Role(s) you selected in Part II, Section A, Line 13.

- Water Supply Designer
- Wastewater Disposal System Designer

1 Designer 1 Name Kevin R. LaRose	2 Designer 1 Signature 	3 Signature Date 4/23/15
--------------------------------------	---	-----------------------------

Section B - Certifying Designer 2 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."

1 Check the design(s) you are certifying. This should be the same as the Designer Role(s) you selected in Part II, Section B, Line 13.

- Water Supply Designer
- Wastewater Disposal System Designer

1 Designer 2 Name	2 Designer 2 Signature	3 Signature Date

Part IX Applicant(s) Signature & Acknowledgements

In order to insure compliance with the requirements of the regulations administered by the Department of Environmental Conservation, Drinking Water & 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.

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

Contact Designer prior to visit

"As landowner of the property for which I am requesting a permit from the Department of Environmental Conservation, I understand that by signing this application I am granting permission for the Department employees to enter the property, during normal working 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."

<input checked="" type="checkbox"/> 2 Print Applicant Name Scott Hardy	3 Applicant Signature 	4 Signature Date 4/27/20.
---	---	------------------------------

Add Applicant Signature Block

**LaRose Surveys, P.C.
Test Pit Evaluation**

Client: Hardy Project#: 14090 Date: January 7, 2015 Site Address: Mutton Hill Drive Charlotte

Project Description: two building sites

Logged By: Kevin LaRose Witnessed By: Spencer Harris

Topographical Description: sloping wooded site

Slope: 5-10% Vegetation: mix of soft and hard woods

Weather: sunny, 15 Method of Excavation: tracked excavator Excavating Company: Sullivan

Test Pit #	Horizon	Depth (inches)	Texture	Color	Consistency	Structure	Redoximorphic Features	Comments
101		0-6"	fine sandy loam	dark brown	loose	subang blocky	none	
		6-18"	fine sandy loam	light brown	friable	subang blocky	none	
		18-22"	very fine sandy loam	light brown	friable	subang blocky	none	
		22-36"	very fine sandy loam	light brown	friable	subang blocky	concentrations	
102		0-6"	fine sandy loam	dark brown	friable	subang blocky	none	
		6-12"	fine sandy loam	light brown	friable	subang blocky	none	
		12-19"	very fine sandy loam	light brown	friable	subang blocky	conc @ 18"	
		19	ledge					
103		0-3"	fine sandy loam	dark brown	friable	subang blocky	none	
		3-20"	fine sandy loam	light brown	friable	subang blocky	conc @ 18"	
		20-	ledge					
104		0-5"	fine sandy loam	dark brown	friable	subang blocky	none	
		5-16"	fine sandy loam	light brown	friable	subang blocky	none	
		16-21"	very fine sandy loam	light brown	friable	subang blocky	none	
		21-	ledge					
105		0-5"	fine sandy loam	dark brown	friable	subang blocky	none	
		5-20"	fine sandy loam	light brown	friable	subang blocky	none	
		20-24"	very fine sandy loam	light brown	friable	subang blocky	none	
		24-	ledge					
110	NO	GOOD						

**LaRose Surveys, P.C.
Test Pit Evaluation**

Client: Hardy Project#: 14090 Date: January 7, 2015 Site Address: Mutton Hill Drive Charlotte

Project Description: two building sites

Logged By: Kevin LaRose Witnessed By: Spencer Harris

Topographical Description: sloping wooded site

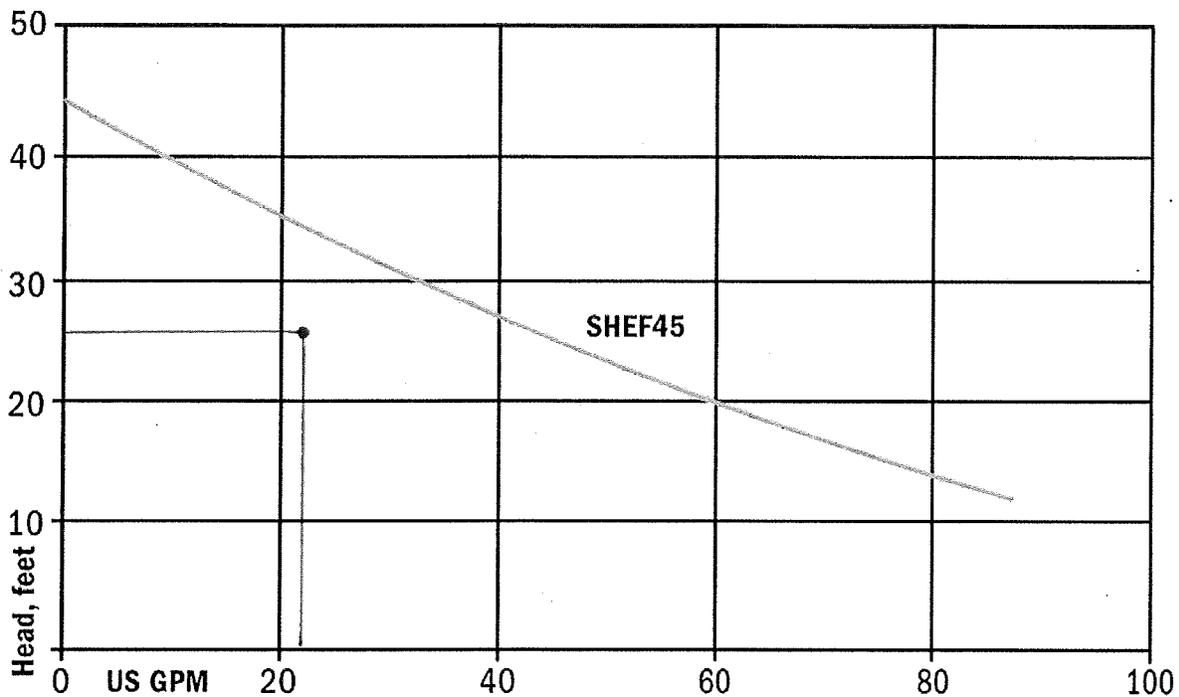
Vegetation: mix of soft and hard woods

Weather: sunny, 15

Method of Excavation: tracked excavator Excavating Company: Sullivan

Test Pit #	Horizon	Depth (inches)	Texture	Color	Consistency	Structure	Redoximorphic Features	Comments
106		0-6"	fine sandy loam	dark brown	friable	subang blocky	none	
		6-17"	fine sandy loam	light brown	friable	subang blocky	none	
		17-20" 20-	very fine sandy loam ledge	light brown	friable	subang blocky	none	
107		0-4"	fine sandy loam	dark brown	friable	subang blocky	none	
		4-18" 18-	fine sandy loam ledge	light brown	friable	subang blocky	none	
108		0-5"	fine sandy loam	dark brown	friable	subang blocky	none	
		5-18" 18-	fine sandy loam ledge	light brown	friable	subang blocky	none	
109		0-5"	fine sandy loam	dark brown	friable	subang blocky	none	
		5-18" 18-	fine sandy loam ledge	light brown	friable	subang blocky	none	
111		0-5"	fine sandy loam	dark brown	friable	subang blocky	none	
		5-25" 25-32"	fine sandy loam	light brown	friable	subang blocky	none	
			fine sandy loam	dark reddish brown	friable	subang blocky	none	
112		0-8"	fine sandy loam	dark brown	friable	subang blocky	none	ledge @ 32'; roots to 24"
		8-16" 16-22"	fine sandy loam	light brown	friable	subang blocky	none	
			fine sandy loam	dark reddish brown	friable	subang blocky	none	ledge @ 22"

14090 – Hardy
Pump Curve



	Primary
VDEC Simplified Mounding Analysis Procedure	
Proposed Wastewater Flow (gpd)	490
Slope (%)	16.0%
Soil Texture	sandy loam
Linear Loading Rate Factor (f)	26.2
Depth to Seasonal High Water Table (in)	18
Depth to Seasonal High Water Table (ft)	1.5
Maximum Soil Thickness Available for Ground Water Mounding (ft)	1.0
Linear Loading Rate (LLR)	26.2
Calculated Minimum Length of Seepage Bed (ft)	18.7
Calculated Maximum Width of Seepage Bed (ft)	26.2
Is Calculated Length to Width Ratio = or > 3:1?	No
Required Sand Thickness Beneath Seepage Bed (ft)	2.5'
Proposed System Parameters	
Length of Seepage Bed (ft)	42
Width of Seepage Bed (ft)	12
Total Seepage Area (ft)	504
Linear Loading Rate Factor (f)	26.2
Calculated Induced Ground Water Mound Thickness (ft)	0.45
Calculated Linear Loading Rate (LLR)	11.67
Calculated Depth to Seasonal High Ground Water and Induced	1.05
Minimum Sand Thickness Required Beneath Seepage Bed (ft)	1.95
Confirm Design Parameters Comply with VDEC Simplified Procedure	
Proposed LLR <= VDEC Simplified LLR	Yes
Proposed Seepage Bed Length >= VDEC Simplified Minimum Bed	Yes
Proposed Seepage Bed Width <= VDEC Simplified Maximum Bed	Yes
Calculated Length to Width Ratio =/> 3:1	Yes
Depth to Proposed Induced Ground Water Mound >= 0.5'	Yes
Thickness of "Dry" Soil from Induced Ground Water Mound and	Yes

ANR Form 4: Certification Statement for Notification of Overshadowed Property Owner(s) pursuant to the Wastewater System and Potable Water Supply Program

A person submitting an application to the Secretary for a Wastewater System and Potable Water Supply Permit where the proposed project has isolation distances (overshadowing) that extend onto property owned by persons other than the permit applicant shall submit the following certification with the application.

Note: When the property subject to the permit application is owned by more than one person, only one of the landowners must sign this certification statement even though all landowners must sign the permit application itself.

I hereby certify that the individual(s) that own property that is overshadowed by my proposed project have been sent by certified mail a copy of the required notification form and the site plan(s) that accurately depicts all isolation distances. I also certify that I attached to this certification form a copy of all certified mail receipts for notifications that were sent to the affected property owners.

Signature _____

Name (Printed) Scott Hardy

Property Address or Property Tax ID # 00050-0197

Date of this certification 4/30/2015

Please list all of the property owners who were sent a notification by certified mail.

Affected Property Owner(s) – (Please provide a second sheet using this format when there are more than three affected property owners)

Name _____

Address _____

Name _____

Address _____

Name _____

Address _____

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Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 4.70	

Sent To Robert L. & Denise F. Danyow
 367 Mutton Hill Drive
 Charlotte, Vermont 05445

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 or PO Box No.
 City, State, ZIP+

PS Form 3800, A

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Return Receipt Fee (Endorsement Required)	\$0.00	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 4.70	

Sent To Thomas & Jean Henry
 286 Mutton Hill Drive
 Charlotte, Vermont 05445

Street, Apt. No.,
 or PO Box No.
 City, State, ZIP+

PS Form 3800, A



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Site# Site Name

Site Town [List Towns](#) Address

Primary Consultant [List Consultants](#)

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Site Name	Charlotte Masonic Lodge
Address	Route 7
Town	Charlotte
Site Use	
Site Number	20043244
DEC Manager	Marc Roy
Priority	MED - Site with sensitive receptors that are threatened by contaminatic
Site Status	
Project Status	Will sample in fall. 4 MW's installed.
Source of Contamination	Above Ground Storage Tank, Heating Oil
Contaminant	Heating Oil
Institutional Control	
Site Closure Date	
DEC Contact Email Address	Marc.Roy@state.vt.us
Record Last Updated	07-28-2004





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Site# Site Name

Site Town [List Towns](#) Address

Primary Consultant [List Consultants](#)

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Site Name	Pizzagalli Residence
Address	Rt 7
Town	Charlotte
Site Use	Residential/Farm
Site Number	921348
DEC Manager	Richard Spiese
Priority	NFAP - No Further Action Planned
Site Status	
Project Status	Contaminated Well. Source Unknown.
Source of Contamination	Unknown
Contaminant	
Institutional Control	
Site Closure Date	05-01-1994
DEC Contact Email Address	Richard.Spiese@state.vt.us
Record Last Updated	





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Site#	<input type="text" value="982528"/>	Site Name	
Site Town	<input type="text"/>	List Towns	Address
Primary Consultant	<input type="text"/>	List Consultants	<input checked="" type="radio"/> All Sites <input type="radio"/> Activ
Priority	<input type="text" value="All"/>		
<input type="button" value="Search"/>		Search Tips	

Site Name	Williamson Residence
Address	694 Church Hill Rd
Town	Charlotte
Site Use	Residential
Site Number	982528
DEC Manager	Mike Young
Priority	SMAC - Site Management Activities Completed
Site Status	
Project Status	UST Removed. GWES meet on property.
Source of Contamination	Unknown, UST-Gasoline
Contaminant	Gasoline
Institutional Control	
Site Closure Date	11-01-2000
DEC Contact Email Address	Chuck.Schwer@state.vt.us
Record Last Updated	04-22-2005





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Site# Site Name

Site Town [List Towns](#) Address

Primary Consultant [List Consultants](#)

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Site Name	Charlotte Central School
Address	Hinesburg Rd
Town	Charlotte
Site Use	
Site Number	951865
DEC Manager	Unassigned
Priority	SMAC - Site Management Activities Completed
Site Status	
Project Status	No Impact To Gw, Site Closed.
Source of Contamination	UST-Gasoline
Contaminant	
Institutional Control	
Site Closure Date	02-01-1996
DEC Contact Email Address	Chuck.Schwer@state.vt.us
Record Last Updated	

