

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



For Office Use Only:

Application# NW-138-1503	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 1374 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	
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	Mt. Philo Road

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 °

W (-) °

Part IV Project Information

Section A - General Project Information & Questions

1 Project Name (if applicable)

2 Total Acreage of Property

3 Business Name (if applicable)

4 Detailed Project Description

Two-lot subdivision of a vacant 10 acre parcel. Lots 2 & 3 are proposed to be occupied by four-bedroom single-family residences. Lot 1 is an existing 5.25 acre parcel that is currently occupied by a three-bedroom SFR. Lots 2 & 3 will have on-site water and their septic systems will be located on Lot 1.

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)

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 type="text"/>	<input type="text"/>
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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	M02B02L04	211	402

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	an overall site plan showing a subdivision of lands of Scott Hardy	3/26/2014	2/23/2015
X	2	a site plan showing a portion of lands of Scott Hardy	3/26/2014	2/23/2015

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	5.25	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	WWW-138-0926	<input checked="" type="radio"/> Yes <input type="radio"/> No

1 Lot#	2 Lot Size (acres)	3 Existing Use of the Lot
2	10	Undeveloped

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				N/A	<input type="radio"/> Yes <input type="radio"/> No

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	5.25	ex. 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"/>	ex. SFR

Add Another Building

Remove This Lot

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
2	5	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

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
3	5	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	3		<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	1	1	No Change	420	0	420	Rule-based
	Add Another Lot/Building Served by this Supply			6	7	8	
				420	0	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.

Remove This Water Supply

1 Water Supply Name/Identifier Lot 2	2 Water Supply Owner (if not Applicant)
3 Water Source Type Non-Public Drilled Bedrock Well	4 Type of Change to Supply 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 2	2	Connection to New System	0	490	490	Rule-based
Add Another Lot/Building Served by this Supply			6	7	8	
			0	490	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.

Remove This Water Supply

1 Water Supply Name/Identifier Lot 3	2 Water Supply Owner (if not Applicant)
3 Water Source Type Non-Public Drilled Bedrock Well	4 Type of Change to Supply 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 3	3	Connection to New System	0	490	490	Rule-based
Add Another Lot/Building Served by this Supply			6	7	8	
			0	490	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.

Remove This Water Supply

Add Another Water Supply

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	Lot 1	420	0	420
X	Lot 2	0	490	490
X	Lot 3	0	490	490
<p>Add Another Water Supply</p>		2	3	4
		420	980	1,400

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.

1 Wastewater Disposal System Name/Identifier <input style="width:95%;" type="text" value="Lot 1 primary"/>	2 Wastewater Disposal System Owner (if not Applicant) <input style="width:95%;" type="text"/>						
3 Wastewater Disposal System Type <input style="width:95%;" type="text" value="Mound"/>	4 Type of Change to System <input style="width:95%;" type="text" value="No Change"/>						
5 Lots/Buildings Served by this Wastewater Disposal System							
Design Flows (Gallons Per Day)							
(a) Lot#	(b) Building ID	(c) Type of Change to the Building's System	(d) Existing	(e) Change	(f) Infiltration	(g) Total	(h) Rule or Meter Based Flows
X 1	1	No Change	420	0	0	420	Rule-based
<input type="button" value="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

1 Wastewater Disposal System Name/Identifier <input style="width:95%;" type="text" value="Lot 1 replacement"/>	2 Wastewater Disposal System Owner (if not Applicant) <input style="width:95%;" type="text"/>
3 Wastewater Disposal System Type <input style="width:95%;" type="text" value="Mound"/>	4 Type of Change to System <input style="width:95%;" 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)				(h) Rule or Meter Based Flows
				(d) Existing	(e) Change	(f) Infiltration	(g) Total	
X	1	1	Replacement Area Designation	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 Lot 2	2 Wastewater Disposal System Owner (if not Applicant) <input type="text"/>
---	---

3 Wastewater Disposal System Type Mound	4 Type of Change to System 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)				(h) Rule or Meter Based Flows
				(d) Existing	(e) Change	(f) Infiltration	(g) Total	
X	2	2	Connection to New System	0	490	0	490	Rule-based
Add Another Lot/Building Served by this System				6	7	8	9	
				0	490	0	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

1 Wastewater Disposal System Name/Identifier <input type="text" value="Lot 3"/>	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)				(h) Rule or Meter Based Flows
				(d) Existing	(e) Change	(f) Infiltration	(g) Total	
X	<input type="text" value="3"/>	<input type="text" value="3"/>	<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

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	
X Lot 3	0	490	0	490	
<input type="button" value="Add Another Wastewater System"/>	2 420	3 980	4 0	5 1,400	

Part VII Application Fees

1 Fee Amount

2 Fee Calculation Details

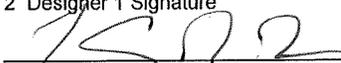
Part VIII Designer Certification & Copyright License

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

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?

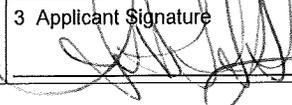
Contact designer prior to visit

"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	3 Applicant Signature	4 Signature Date
Scott Hardy		3/2/2015

Add Applicant Signature Block

LaRose Surveys, P.C.
Test Pit Evaluation

Client: Hardy Project#: 13064 Date: January 13, 2014 Site Address: Mt. Philo Road, Charlotte

Project Description: two building sites

Logged By: Kevin LaRose Witnessed By: Spencer Harris

Topographical Description: sloping open site Slope: 5-10% Vegetation: meadows, fields

Weather: sunny, 40 Method of Excavation: tracked excavator Excavating Company: Sullivan

Test Pit #	Horizon	Depth (inches)	Texture	Color	Consistency	Structure	Redoximorphic Features	Comments
101		0-11"	silty loam	dark brown	friable	subang blocky	none	roots
		11-16"	silty loam	light brown	friable	subang blocky	prominent	common
102		0-6"	silty loam	dark brown	friable	subang blocky	none	roots
		6-7"	silty loam	light brown	friable	subang blocky	few faint	
		7-20"	silty loam	light brown	friable	subang blocky	common, dist.	
103		0-8"	silty loam	dark brown	friable	subang blocky	none	
		8-11"	silty loam	light brown	friable	subang blocky	few faint	
		11-20"	silty loam	light brown	friable	subang blocky	common, dist.	
104		0-8"	silty loam	dark brown	friable	subang blocky	none	
		8-11"	silty loam	light brown	friable	subang blocky	prominent	common
105		0-10"	silty loam	dark brown	friable	subang blocky	none	
		10-20"	silty loam	light brown	friable	subang blocky	prominent	common
106		0-10"	sandy loam	dark brown	friable	granular	none	
		10-18"	fine sandy loam	brown	friable	subang blocky	none	
		18-28"	fine sandy loam	light brown	friable	subang blocky	common, dist.	
107		0-12"	sandy loam	dark brown	friable	granular	none	
		12-16"	fine sandy loam	brown	friable	subang blocky	none	
		16-30"	fine sandy loam	light brown	friable	subang blocky	common, dist.	

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

Client: Hardy Project#: 13064 Date: January 13, 2014 Site Address: Mt. Philo Road, Charlotte

Project Description: two building sites

Logged By: Kevin LaRose Witnessed By: Spencer Harris

Topographical Description: sloping open site Slope: 5-10% Vegetation: meadows, fields

Weather: sunny, 40 Method of Excavation: tracked excavator Excavating Company: Sullivan

Test Pit #	Horizon	Depth (inches)	Texture	Color	Consistency	Structure	Redoximorphic Features	Comments
108		0-12"	sandy loam	dark brown	friable	granular	none	
		12-16"	fine sandy loam	brown	friable	subang blocky	none	
		16-31"	fine sandy loam	light brown	friable	subang blocky	common, dist.	
109		0-10"	sandy loam	dark brown	friable	granular	none	
		10-13"	fine sandy loam	brown	friable	subang blocky	none	
		13-22"	fine sandy loam	light brown	friable	subang blocky	common, dist.	
110		0-12"	sandy loam	dark brown	friable	granular	none	
		12-15"	fine sandy loam	brown	friable	subang blocky	none	
		15-30"	fine silty loam	light brown	friable	subang blocky	common, dist.	
111		0-14"	sandy loam	dark brown	friable	granular	none	
		14-18"	fine sandy loam	brown	friable	subang blocky	none	
		18-33"	fine sandy loam	light brown	friable	subang blocky	common, dist.	
112		0-12"	sandy loam	dark brown	friable	granular	none	
		12-15"	fine sandy loam	brown	friable	subang blocky	none	
		15-36"	fine sandy loam	light brown	friable	subang blocky	common, dist.	
113		0-10"	sandy loam	dark brown	friable	granular	none	
		10-15"	fine sandy loam	brown	friable	subang blocky	none	
		15-35"	fine sandy loam	light brown	friable	subang blocky	common, dist.	

LaRose Surveys, P.C.
Test Pit Evaluation

Client: Hardy Project#: 13064 Date: January 13, 2014 Site Address: Mt. Philo Road, Charlotte

Project Description: two building sites

Logged By: Kevin LaRose Witnessed By: Spencer Harris

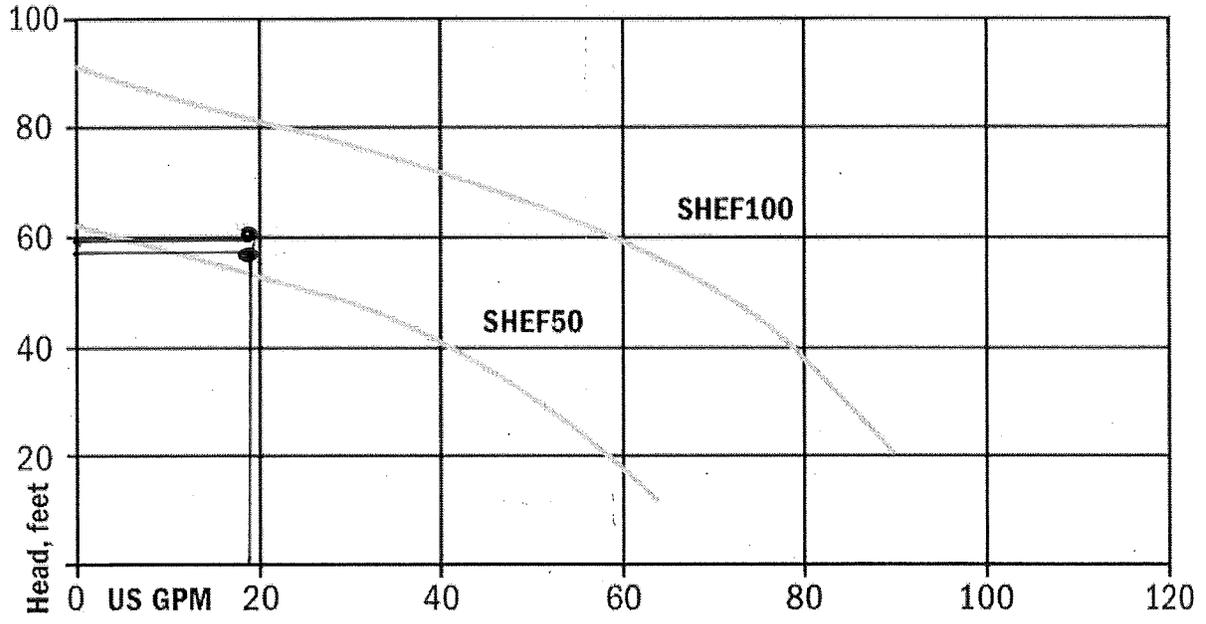
Topographical Description: sloping open site Slope: 5-10% Vegetation: meadows, fields

Weather: sunny, 40 Method of Excavation: tracked excavator Excavating Company: Sullivan

Test Pit #	Horizon	Depth (inches)	Texture	Color	Consistency	Structure	Redoximorphic Features	Comments
114		0-8"	silty loam	dark brown	friable	subang blocky	none	
		8-22"	clay loam	grayish brown	friable	blocky	common, dist.	
115		0-4"	silty loam	dark brown	friable	subang blocky	none	
		4-18"	clay loam	grayish brown	friable	blocky	common, dist.	

13064 - Hardy

Pump Curve



LaRose Surveys, P.C.
Performance Based Calculations

Client: Hardy
Site Address: Mt. Philo Road, Charlotte

Project#: 13064
Date: January 22, 2014

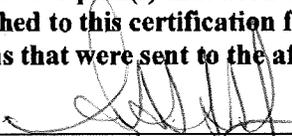
	SYSTEM	SYSTEM
	Lot 2	Lot 3
Simplified Desktop Mounding Analysis		
Wastewater flow (gpd)	490	490
Slope (%)	7.4%	7.4%
Soil texture	fine sandy loam	fine sandy loam
Linear loading rate factor (f)	10.5	10.5
Depth to seasonal high water table (in)	15	15
Depth to seasonal high water table (ft)	1.3	1.3
Max. soil thickness available for groundwater mounding (ft) (SHWT-0.5')	0.8	0.8
Linear loading rate (LLR)	7.9	7.9
Calculated minimum length of seepage bed (ft)	62.2	62.2
Calculated maximum width of seepage bed (ft)	7.9	7.9
Is calculated length to width ratio = or > 3:1?	Yes	Yes
Required sand thickness beneath seepage bed (ft)	2.5'	2.5'
Proposed System Parameters		
Length of seepage bed (ft)	70	70
Width of seepage bed (ft)	7	7
Total seepage area (ft)	490	490
Linear loading rate factor (f)	10.5	10.5
Calculated induced groundwater mound thickness (ft)	0.67	0.67
Calculated linear loading rate (LLR)	7.00	7.00
Calculated depth to seasonal high groundwater & induced mound (ft)	0.58	0.58
Minimum sand thickness required beneath seepage bed (ft)	2.42	2.42
Confirm Design Parameters Comply with Simplified Mounding Analysis		
Proposed LLR <= Simplified LLR	Yes	Yes
Proposed seepage bed length >= Simplified minimum bed length	Yes	Yes
Proposed seepage bed width <= Simplified maximum bed width	Yes	Yes
Calculated length to width ratio =/> 3:1	Yes	Yes
Depth to proposed induced groundwater mound >= 0.5'	Yes	Yes
Thickness of "dry" soil from induced groundwater mound & seepage bed >= 3'	Yes	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 J. Hardy

Property Address or Property Tax ID # _____

Date of this certification _____

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 _____ Lynn Mansfield
Address _____ Ruth Farmer
_____ 786 Mt. Philo Road
_____ Charlotte, Vermont 05445

Name _____

Address _____

Name _____

Address _____
